

**FORMER BRONX FREIGHT TERMINAL SITE**  
**101 LINCOLN AVENUE**  
**BRONX, NEW YORK 10454**  
**Block 2316, Lot 1**

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**REMEDIAL INVESTIGATION  
REPORT**

June 2016

*Prepared for:*

101 Lincoln Associates Property LLC  
512 Seventh Avenue 15th Floor  
New York, NY 10018

***EBC***

***ENVIRONMENTAL BUSINESS CONSULTANTS***

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## LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
AST	Aboveground Storage Tank
BCP	Brownfields Cleanup Program
BCA	Brownfield Site Cleanup Agreement
CVOC	Chlorinated VOC
ESA	Environmental Site Assessment
EBC	Environmental Business Consultants
IRM	Interim Remedial Measure Work Plan
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	Photo-Ionization Detector
PCB	Polychlorinated Biphenyls
REC	Recognized Environmental Condition
RI	Remedial Investigation
RIWR	Remedial Investigation Work Plan
SVOC	Semi-Volatile Organic Compound
UST	Underground Storage Tank
VOC	Volatile Organic Compound

## REPORT CERTIFICATION

I, Charles Sosik, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Charles Sosik  
Principal

Date: 5-31-2016



## **1.0 INTRODUCTION**

### **1.1 Project Background**

This Remedial Investigation Report (RIR) was prepared on behalf of 101 Lincoln Associates Property LLC for the property known as the Former Bronx Freight Terminal, located at 101 Lincoln Avenue, Bronx, New York (hereafter referred to as the Site). In May 2015, 101 Lincoln Associates Property LLC (Requestor) filed an application with the New York State Department of Environmental Conservation (NYSDEC), to admit the Project Site into the New York State Brownfield Cleanup Program (BCP). This application was denied because of insufficient evidence of contamination requiring remediation. Following denial of the BCP application, the Requestor performed additional sampling to comply with the hazardous material “e” designation. This work resulted in discovery of previously unknown contamination. As a result, the Requestor has re-applied with the New York State Department of Environmental Conservation (NYSDEC), to admit the Project Site into the New York State Brownfield Cleanup Program (BCP) in May 2016. This RIR is being submitted with the application.

The purpose of this Remedial Investigation Report is to collect data of sufficient quality and quantity to characterize the nature and extent of contamination and to complete a qualitative exposure assessment for future occupants of the proposed building and the surrounding community.

The overall objectives of the project are to prepare the Site for unrestricted use as defined in the Brownfield Cleanup Agreement and to remediate known and unknown environmental conditions at the Site to the satisfaction of the NYSDEC and the New York State Department of Health (NYSDOH).

The field work portion of the RI was conducted by EBC in December 2015.

### **1.2 Site Location and Description**

The street address for the Site is 101 Lincoln Avenue, Bronx, NY (**Figure 1**). The Site is located in the South Bronx section of Bronx County and is comprised of a single tax lot (**Figure 2**) totaling 133,700 sf (3.07 acres). The property has approximately 300 feet of street frontage on Bruckner Avenue, approximately 350 ft of street frontage on Lincoln Avenue and approximately 500 ft of frontage along the north side of the Harlem River.

The lot is developed with a one-story L-shaped warehouse building with a connected two-story office building totaling 83,064 square feet. The Site was first developed sometime before 1908. From 1908 to 1951 the Site was occupied by the New Jersey Central Rail Bronx Freight Terminal. From 1968 to 2007, the Site is identified as Gerosa Haulage Corporation (with uses including crane repair, paint shop, blacksmith shop, and garage repair shop). According to the NYC Department of Buildings, the existing building was constructed in 1966.

The buildings are being demolished as part of the redevelopment of the Site.

The area surrounding the Site is primarily commercial and industrial buildings to the east and west, several mixed use properties to the north, and the Harlem River to the south. There are no Schools or Daycare facilities within a 1,000 ft of the project Site.

The elevation of the Site is approximately feet above the National Geodetic Vertical Datum (NGVD). The area topography gradually slopes to the southwest. The depth to groundwater beneath the Site is 6-7 feet below grade. Based on regional groundwater elevation maps, and measurements made at the Site, groundwater flows to the southwest toward the Harlem River.

### **1.3 Redevelopment Plans**

The proposed new building will consist of three new 25-story and one 18-story residential tower buildings. The towers will be interconnected with a common base which will include three 6-story, one 5-story, two 4-story, one 2-story and two single story buildings. The project will include 74,000 sf of underground parking, 31,199 sf of retail space, 2,872 sf of community space and 833,829 sf of residential space.

### **1.4 Site History**

According to the Phase I Report, the Site was first developed sometime before 1908. From 1908 to 1951 the Site was occupied by the New Jersey Central Rail Bronx Freight Terminal. From 1968 to 2007, the Site is identified as Gerosa Haulage Corporation (with uses including crane repair, paint shop, blacksmith shop, and garage repair shop). According to the NYC Department of Buildings, the existing building was constructed in 1966.

### **1.5 Summary of Previous Investigations**

Environmental investigations performed at the Site include the following:

- Phase I Environmental Site Assessment - Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. April, 2014

#### *1.5.1 April 2014 - Phase I Environmental Site Assessment Report (Langan)*

A Phase I Environmental Site Assessment Report was prepared by Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) on April, 2014.

Based upon reconnaissance of the subject and surrounding properties, interviews and review of historical records and regulatory agency databases, Langan identified the following recognized environmental conditions:

#### REC 1 – Current and Historical Site Use

The following current and historical property uses are considered a REC:

- Coal Storage from approximately 1891 to 1908;

- New Jersey Rail Road Bronx Freight terminal from approximately 1908 through the 1950s; and,
- Crane repair, paint shop, blacksmith shop, bus depot, and vehicle repair shop from approximately 1968 to present.

The Site is divided into two sections with Third Avenue Transit Inc. occupying the eastern portion of the Site and Oz Moving & Storage occupying the western portion. Third Avenue Transit Inc. utilizes the Site for storage of equipment & materials, school bus repairs, and as office space. There is an oil-water separator with an apparent leak detection system in the middle of the Third Avenue Transit warehouse building. The condition of the oil-water separator system is unknown. Oz Moving & Storage utilizes the Site for the storage of equipment, materials and vehicles, and vehicle repair. Vehicle repair equipment and discolored and stained floors are apparent throughout the building. Inadvertent and/or incidental releases of solvents, petroleum products, PCBs and/or other chemicals used during operations at these facilities may have adversely impacted soil, soil vapor and groundwater.

#### REC 2 – On-Site Closed-In-Place Underground Storage Tanks

Twelve 550-gallon diesel USTs, two 550-gallon gasoline USTs, one 1,000-gallon motor oil UST, and one 1,000-gallon waste oil UST were closed-in-place between 1991 and 1992. Inadvertent releases from these tanks while they were active may have impacted soil, soil vapor, and groundwater. Based on the historic usage and the presumed age of the tanks (approximately 44 years), the closed-in-place USTs are a REC.

#### REC 3 – Potential Historic Petroleum Storage

An apparent fill port was identified in the sidewalk along the northwestern edge of the Site. There are no records of a petroleum bulk storage tank near the apparent fill port. Based on the potential presence of tanks and lack of any closure documentation, the fill port and potential petroleum tank(s) are a REC.

#### REC 4 – Soil Staining

Petroleum-like staining and odors were identified along the southwestern corner of the building during the site reconnaissance. A petroleum release may have impacted soil, soil vapor and groundwater and is considered a REC. According to the NYC Department of Finance Tax Map, an approximate 50-foot wide sliver of land (Block 2316, Lot 35) exists between the Site and the Harlem River; therefore, the observed soil staining may be located outside the Site property line.

#### REC 5 – Historical Use of Surrounding Properties

Historical use of properties surrounding the Site include commercial buildings with office space, lofts, auto repairs (1908 – present), parking garages (1951 – 1968), manufacturing facilities (1891 – 1946), freight depots (1891 – 1947), a piano factory (1891), printing (1935 – 1947), and woodworking (1891). Additionally, an active NYSDEC Brownfields Site was identified

approximately 745 feet northeast (up-gradient) of the Site. Based on investigations conducted to date, the primary contaminants of concern in soil and groundwater are petroleum related compounds. No information was provided with respect to the off-site migration of contaminants; however, the EDR report indicates that the potential exists for off-site migration of site-related contaminants in soil vapor. Potential petroleum and solvent releases associated with the historical surrounding property uses may have adversely impacted soil, groundwater, and/or soil vapor at the Site and is, therefore, considered a REC.

This report is included in Appendix F.

## 2.0 REMEDIAL INVESTIGATION

### 2.1 Field Investigation

A Phase II work plan was approved by OER in October 2015 in connection with the hazardous material “e” designation and is attached in Appendix F. The field work portion of the RI was conducted by EBC from December 4, 2015 through December 8, 2015. The field investigation consisted of environmental sampling, field observations and measurements to determine:

- Local geologic/hydro geological conditions;
- Definition of source areas;
- Potential migration of contaminants from the Site to surrounding areas; and,
- Overall characterization of site-related contamination in all media.

The field effort included the collection and analysis of soil, groundwater and soil vapor samples. Laboratory services for soil, groundwater and soil vapor analysis were provided by Phoenix Environmental Laboratories of Manchester, CT (NY Cert. No. 11301).

A sample matrix showing the number, type and analysis of samples collected during the Remedial Investigation is provided as **Table 1**.

### 2.2 Deviations from the Remedial Investigation Work Plan

The following changes were made in performing the Remedial Investigation:

- Soil borings 15SB6 and 15SB9 and monitoring well MW5 were moved northeast of their original locations due to accessibility.
- SV5 malfunctioned during sampling and therefore sample could not be analyzed.
- All soil vapor samples were collected at a depth of 2-4 feet below grade due to the depth to water.

### 2.3 Soil Sampling

#### 2.3.1 Soil Borings

A total of twelve (12) soil borings were advanced during the RI to identify source areas and to obtain general soil quality information present at the Site (**Figure 3**). Three (3) of the borings were installed inside the current building, nine (9) borings were advanced at outdoor locations. All soil boring locations were advanced on December 4, 2015 and December 7, 2015.

Soil samples were collected from the 0-2 foot and the 12-14 foot intervals at all soil boring locations. Soil recovered from each soil boring was field screened by a qualified environmental professional for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. Depth to groundwater was confirmed at 5.82 to 7.98 feet below grade. Soil boring logs are provided in **Appendix A**.



Twenty six (26) soil samples were retained for analysis from the twelve (12) soil boring locations. Samples analyzed for VOCs (EPA Method 8260), SVOCs (EPA Method 8270), metals (EPA Method 6010), Pesticides and PCBs (EPA Method 8081/8082). Soil sample analytical results were compared to NYSDEC Part 375.6 Unrestricted Use and Residential Restricted SCOs.

## 2.4 Monitoring Well Installation

Six groundwater monitoring wells, MW1 through MW6, were installed at the Site on December 4, 2015 and December 7, 2015.

All of the wells were installed with a track mounted probe drilling machine to a depth of approximately 15 feet below grade with 10 feet of 0.010 PVC well screen and 5 feet of PVC riser.

A No. 00 morie filter-pack sand filled the annulus surrounding the screen within two feet above the top of the screen. A one-foot hydrated bentonite seal was then placed on top of the filter sand and the remainder of the borehole was backfilled to grade. Following installation, each of the wells were surveyed to determine relative casing elevation to the nearest 0.01 ft and horizontal position to the nearest 0.1 ft. Groundwater elevations and monitoring well specifications for each well are provided in **Table 2**. Monitoring well locations are identified in **Figure 4**. Well completion reports detailing monitoring well construction are provided in **Appendix B**.

Prior to sampling, a synoptic round of depth-to-groundwater (DTW) measurements were obtained from all wells on December 10, 2015 to determine the water table elevation and to calculate the volume of standing water in the well. D The depth to groundwater ranged from 5.82 to 7.98 feet below surface grade. Depth to water and survey readings are provided in **Table 2**. A groundwater elevation map from the December 2015 depth to water readings is provided as **Figures 5, respectively**.

### 2.4.1 Groundwater Sampling

All six of the six monitoring wells (MW1 through MW6) were sampled on December 8, 2015.

Samples were collected from the monitoring wells using low-flow sampling techniques and were monitored continuously until parameters stabilized. A peristaltic pump and polyethylene sampling tube were used to purge and collect samples from each well location. Sample tubing and the silicone pump tubing were replaced between each sample location. Samples were collected directly into pre-cleaned laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix Environmental Laboratories of Manchester, CT, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). Groundwater sampling logs are provided in **Appendix C**.

All groundwater samples from the monitoring wells were analyzed for VOCs / SVOCs by EPA method 8260 / 8270, target analyte list (TAL) metals by EPA method 6010 and Pesticides/PCBs by method 8081/8082.

## 2.5 Soil Vapor Sampling

Eight (8) soil vapor samples (SV1-SV8) were collected from vapor implants installed at a depth of 2-4 feet below grade (due to depth to water) on December 7, 2015. Soil vapor sampling locations are shown on **Figure 4**. All soil vapor samples were collected over a 2-hr sampling period.

Soil vapor samples were collected in accordance with the procedures as described in the *Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH 10/06)*.

### *2.5.1 Installation of Soil Vapor Implants*

Eight (8) soil vapor implants were installed at the Site on December 7, 2015 and sampled on December 8, 2015. The vapor implants (Geoprobe™ Model AT86 series) were constructed of a 6-inch length of double woven stainless steel wire and installed to a depth of 2-4 ft below the slab using Geoprobe™ equipment.

During installation, the barbed end of each implant was attached to ¼ inch polyethylene tubing which extended approximately 24 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implant to a height of approximately 1 foot above the bottom of the implant. The remainder of the borehole was sealed with a bentonite slurry to the surface. The tubing and borehole were then sealed at the surface with hydrated granular bentonite and a 12" x 12" (approx.) plastic sheet.

### *2.5.2 Surface Seal Test Procedure*

In accordance with NYSDOH guidance, a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. This was accomplished by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Ionscience Gas Check G).

The tracer gas test procedure was employed at all 8 soil vapor sampling locations. All seals tested tight with no infiltration of helium through the surface.

### *2.5.3 Soil Vapor Sample Collection*

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) were purged with a handheld vacuum pump prior to collecting the samples to ensure samples collected were representative. After purging, a 6-liter summa canister, fitted with a 2-hour flow regulator was attached to the surface tube of each of the sampling points and the valve opened to initiate sampling. Sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (**Appendix D**). When the remaining vacuum in the canisters was between 0 and 7 inches Hg, (after approximately 2 hrs of run-time) the valve was closed and the canisters were detached from the sampling tube.

The sample from location SV5 was not analyzed due to a malfunctioning regulator on the canister. Sample canisters were picked up the following day by a Phoenix laboratory courier and delivered to the laboratory for analysis of VOCs by USEPA Method TO-15.

## 2.6 Laboratory Analysis

Data tables summarizing the laboratory results are provided in **Tables 3** through **13** and copies of the laboratory reports (with chains-of-custody) are included in digital format in **Appendix E**. Soil sample results were compared to both Unrestricted Use and Restricted Residential Soil Cleanup Objectives (SCOs) as promulgated in 6 NYCRR Subpart 375-6. Groundwater results were compared to NYSDEC Division of Water, Technical & Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values (AWQS), June 1998. Soil vapor analytical results were compared to Outdoor Background Levels for Selected Compounds and sub-slab and indoor air guidance levels as presented in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006. **Table 7** contains a list of parameters detected above Track 1 unrestricted soil cleanup objectives and the range in detections. **Table 14** contains a list of parameters detected above ambient groundwater standards and the range in detections.

### 2.6.1 Analytical Results – Soil Samples

A total of twenty-six (26) soil samples were collected from twenty-five (25) soil borings for laboratory analysis of VOCs (EPA Method 8260), SVOCs (EPA Method 8270), TAL metals and pesticides/PCBs (EPA Method 8081/8082).

Soil sampling results are summarized in **Tables 3** through **6**. All soil results above Unrestricted Use SCOs are presented in **Table 7** and posted on **Figures 6**.

Soil samples collected from the borings had elevated levels of VOCs, SVOCs and heavy metals that exceeded either unrestricted use SCOs as follows:

#### **VOCs in Soil Above Unrestricted Use SCOs:**

15B3 (0-2ft) – Acetone (77 µg/kg)

15B5 (12-14ft) – Acetone (51 µg/kg)

15B6 (12-14ft) – Ethylbenzene (31,000 µg/kg), n-Propylbenzene (3,900 µg/kg)

15B8 (0-2ft) – Acetone (61 µg/kg)

15B9 (12-14ft) – Ethylbenzene (2,700 µg/kg)

15B10 (12-14ft) – Acetone (53 µg/kg)

15B11 (12-14ft) – Acetone (320 µg/kg)

Duplicate- none

VOCs were not detected above NYSDEC (Part 375.6) Restricted Residential Soil Cleanup Objectives in any of the samples.

**SVOCs in Soil Above Unrestricted Use SCOs:**

15B2 (0-2ft) - Benzo(k)fluoranthene (2,100 µg/kg), Chrysene (2,600 µg/kg)

15B5 (0-2ft) - Benzo(k)fluoranthene (950 µg/kg), Chrysene (1,300 µg/kg)

15B5 (12-14ft) - Benzo(k)fluoranthene (1,900 µg/kg), Chrysene (3,000 µg/kg)

15B6 (0-2ft) - Benzo(k)fluoranthene (2,100 µg/kg), Chrysene (2,600 µg/kg)

15B11 (0-2ft) - Benzo(k)fluoranthene (1,000 µg/kg), Chrysene (1,400 µg/kg)

15B11 (12-14ft) - Benzo(k)fluoranthene (1,200 µg/kg), Chrysene (2,000 µg/kg)

**SVOCs in Soil Above Restricted Residential SCOs:**

15B2 (0-2ft) - Benz(a)anthracene (2,400 µg/kg), Benzo(a)pyrene (2,400 µg/kg),  
Benzo(b)fluoranthene (2,100 µg/kg), Indeno(1,2,3-cd)pyrene (1,400 µg/kg)

15B5 (0-2ft) - Benz(a)anthracene (1,100 µg/kg), Benzo(a)pyrene (1,200 µg/kg),  
Benzo(b)fluoranthene (1,100 µg/kg), Indeno(1,2,3-cd)pyrene (740 µg/kg)

15B5 (12-14ft) - Benz(a)anthracene (2,900 µg/kg), Benzo(a)pyrene (2,600 µg/kg),  
Benzo(b)fluoranthene (1,600 µg/kg), Indeno(1,2,3-cd)pyrene (1,300 µg/kg)

15B6 (0-2ft) - Benz(a)anthracene (2,400 µg/kg), Benzo(a)pyrene (2,500 µg/kg),  
Benzo(b)fluoranthene (2,300 µg/kg), Dibenz(a,h)anthracene (370 µg/kg), Indeno(1,2,3-  
cd)pyrene (1,600 µg/kg)

15B6 (12-14ft) - Benz(a)anthracene (9,600 µg/kg), Benzo(a)pyrene (9,000 µg/kg),  
Benzo(b)fluoranthene (7,000 µg/kg), Benzo(k)fluoranthene (6,500 µg/kg), Chrysene (10,000  
µg/kg), Dibenz(a,h)anthracene (910 µg/kg), Indeno(1,2,3-cd)pyrene (4,600 µg/kg)

15B8 (0-2ft) - Benz(a)anthracene (7,000 µg/kg), Benzo(a)pyrene (6,300 µg/kg),  
Benzo(b)fluoranthene (7,000 µg/kg), Benzo(k)fluoranthene (4,300 µg/kg), Chrysene (7,400  
µg/kg), Dibenz(a,h)anthracene (840 µg/kg), Indeno(1,2,3-cd)pyrene (3,800 µg/kg)

15B9 (0-2ft) - Indeno(1,2,3-cd)pyrene (520 µg/kg)

15B10 (12-14ft) - Benz(a)anthracene (7,400 µg/kg), Benzo(a)pyrene (6,700 µg/kg),  
Benzo(b)fluoranthene (5,800 µg/kg), Benzo(k)fluoranthene (4,300 µg/kg), Chrysene (8,200

µg/kg), Dibenz(a,h)anthracene (820 µg/kg), Indeno(1,2,3-cd)pyrene (3,600 µg/kg)

*15B11 (0-2ft)* - Benz(a)anthracene (1,100 µg/kg), Benzo(a)pyrene (1,400 µg/kg),  
Benzo(b)fluoranthene (1,400 µg/kg), Indeno(1,2,3-cd)pyrene (950 µg/kg)

*15B11 (12-14ft)* - Benz(a)anthracene (1,800 µg/kg), Benzo(a)pyrene (1,700 µg/kg),  
Benzo(b)fluoranthene (1,100 µg/kg), Indeno(1,2,3-cd)pyrene (1,000 µg/kg)

**Metals in Soil Above Unrestricted Use SCOs:**

*15B1 (0-2ft)* - Lead (74.3 mg/kg), Zinc (516 mg/kg)

*15B1 (12-14ft)* - Lead (98.2 mg/kg)

*15B2 (0-2ft)* - Lead (90.2 mg/kg), Zinc (133 mg/kg)

*15B3 (0-2ft)* - Mercury (0.59 mg/kg)

*15B3 (12-14ft)* - Lead (96.9 mg/kg)

*15B4 (0-2ft)* - Copper (81.2 mg/kg), Zinc (384 mg/kg)

*15B4 12-14ft)* - Mercury (0.43 mg/kg)

*15B5 (0-2ft)* – Chromium (32.1 mg/kg), Copper (138 mg/kg), Lead (388 mg/kg), Mercury (0.48 mg/kg), Zinc (282 mg/kg)

*15B5 (12-14ft)* – Chromium (38.4 mg/kg), Copper (121 mg/kg), Zinc (295 mg/kg)

*15B6 (0-2ft)* – Arsenic (14.3 mg/kg), Copper (52.4 mg/kg), Lead (208 mg/kg), Mercury (0.45 mg/kg), Zinc (180 mg/kg)

*15B6 (12-14ft)* – Nickel (40.5 mg/kg), Zinc (413 mg/kg)

*15B7 (0-2ft)* - Lead (92.2 mg/kg), Zinc (147 mg/kg)

*15B8 (0-2ft)* – Arsenic (16 mg/kg), Copper (86.9 mg/kg), Mercury (0.48 mg/kg), Zinc (335 mg/kg)

*15B7 (12-14ft)* - Lead (124 mg/kg), Mercury (0.69 mg/kg)

*15B9 (0-2ft)* - Lead (383 mg/kg), Zinc (135 mg/kg)

*15B9 (12-14ft)* - Mercury (0.4 mg/kg), Zinc (148 mg/kg)

*15B10 (0-2ft)* - Lead (120 mg/kg), Mercury (0.6 mg/kg), Zinc (194 mg/kg)

15B10 (12-14ft) - Lead (243 mg/kg), Mercury (0.47 mg/kg)

15B11 (0-2ft) - Copper (114 mg/kg), Mercury (0.29 mg/kg), Zinc (244 mg/kg)

15B11 (12-14ft) – Chromium (46.9 mg/kg), Copper (181 mg/kg), Nickel (33.5 mg/kg)

15B12 (0-2ft) - Lead (73.9 mg/kg), Mercury (0.32 mg/kg)

15B12 (12-14ft) – Chromium (47.3 mg/kg)

Duplicate - Copper (62.3 mg/kg), Lead (297 mg/kg), Zinc (128 mg/kg)

**Metals in Soil Above Residential Restricted SCOs:**

15B2 (0-2ft) - Mercury (2.74 mg/kg)

15B4 (0-2ft) - Arsenic (20.8 mg/kg), Barium (466 mg/kg), Lead (4,750 mg/kg), Mercury (0.97 mg/kg)

15B5 (0-2ft) – Arsenic (17.2 mg/kg)

15B5 (12-14ft) – Arsenic (21.1 mg/kg), Lead (584 mg/kg), Mercury (5.64 mg/kg)

15B6 (12-14ft) – Arsenic (26.8 mg/kg), Copper (340 mg/kg), Lead (609 mg/kg), Mercury (1.5 mg/kg)

15B7 (12-14ft) – Mercury (6.38 mg/kg)

15B8 (0-2ft) – Lead (478 mg/kg)

15B9 (0-2ft) – Mercury (6.18 mg/kg)

15B8 (12-14ft) – Lead (476 mg/kg)

15B11 (0-2ft) – Arsenic (22.3 mg/kg), Lead (437 mg/kg)

15B11 (12-14ft) – Arsenic (20.5 mg/kg), Cadmium (10.3 mg/kg), Lead (519 mg/kg), Mercury (4.43 mg/kg), Zinc (4,160 mg/kg)

Duplicate – Mercury (8.06 mg/kg)

**Pesticides in Soil Above Unrestricted Use SCOs:**

15B3 (0-2ft) – PCB-1260 (170 µg/kg)

15B5 (0-2ft) – 4,4'-DDE (6.5 µg/kg), 4,4'-DDT (14 µg/kg)

15B5 (12-14ft) – 4,4'-DDT (4.1 µg/kg)

15B6 (0-2ft) – 4,4'-DDE (5.1 µg/kg), 4,4'-DDT (7.4 µg/kg)

15B8 (0-2ft) – 4,4'-DDD (53 µg/kg), 4,4'-DDE (27 µg/kg), 4,4'-DDT (40 µg/kg)

15B11 (0-2ft) – 4,4'-DDD (8.8 µg/kg), 4,4'-DDE (6.9 µg/kg), 4,4'-DDT (10 µg/kg)

15B12 (0-2ft) – 4,4'-DDT (10 µg/kg)

15B12 (12-14ft) – 4,4'-DDD (10 µg/kg), 4,4'-DDT (48 µg/kg)

### **Pesticides in Soil Above Restricted Residential Use SCOs:**

No Pesticides were detected above NYSDEC Restricted Residential Use SCOs.

### **PCBs in Soil Above Unrestricted Use SCOs:**

15B3 (0-2ft) – PCB-1260 (170 µg/kg)

### **PCBs in Soil Above Restricted Residential Use SCOs:**

No PCBs were detected above NYSDEC Restricted Residential Use SCOs.

## *2.6.2 Analytical Results – Groundwater Samples*

A total of six (6) groundwater samples were collected from ten (6) groundwater monitoring wells for laboratory analysis of VOCs (EPA Method 8260), SVOCs (EPA Method 8270), TAL metals and pesticides/PCBs (EPA Method 8081/8082).

The results of groundwater samples collected during the RI are summarized in **Tables 8** through **12**. Several VOC, SVOC, dissolved metals and pesticides were detected in excess of the NYSDEC Division of Water, Technical & Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values (AWQS), June 1998.

### **VOCs in Groundwater Above NYSDEC AWQS:**

MW6 – Benzene (9.2 µg/L), Ethylbenzene (280 µg/L), Isopropylbenzene (95 µg/L), Naphthalene (1300 µg/L), n-Propylbenzene (20 µg/L), Toluene (12 µg/L)

### **SVOCs in Groundwater Above NYSDEC AWQS:**

MW1 - Benz(a)anthracene (0.51 µg/L), Benzo(b)fluoranthene (0.38 µg/L), Benzo(k)fluoranthene (0.41 µg/L), Chrysene (0.53 µg/L), Indeno(1,2,3-cd)pyrene (0.26 µg/L)

MW2 - Benz(a)anthracene (0.66 µg/L), Benzo(b)fluoranthene (0.46 µg/L), Benzo(k)fluoranthene (0.48 µg/L), Chrysene (0.63 µg/L), Indeno(1,2,3-cd)pyrene (0.3 µg/L)



MW3 - Benz(a)anthracene (0.09 µg/L), Benzo(b)fluoranthene (0.06 µg/L), Benzo(k)fluoranthene (0.06 µg/L), Chrysene (0.08 µg/L), Indeno(1,2,3-cd)pyrene (0.04 µg/L)

MW5 - Benz(a)anthracene (0.16 µg/L), Benzo(b)fluoranthene (0.12 µg/L), Benzo(k)fluoranthene (0.12 µg/L), Chrysene (0.15 µg/L), Indeno(1,2,3-cd)pyrene (0.08 µg/L)

Duplicate - Benz(a)anthracene (1.2 µg/L), Benzo(b)fluoranthene (0.9 µg/L), Benzo(k)fluoranthene (0.91 µg/L), Chrysene (1.2 µg/L), Indeno(1,2,3-cd)pyrene (0.57 µg/L)

#### **Pesticides in Groundwater Above NYSDEC AWQS:**

MW6 – Dieldrin (0.49 µg/L)

#### **PCBs in Groundwater Above NYSDEC AWQS:**

No PCBs in groundwater were detected.

#### **Dissolved Metals in Groundwater Above NYSDEC AWQS:**

MW1 - Magnesium (105 µg/L), Manganese (0.566 µg/L), Sodium (972 µg/L)

MW2 - Magnesium (61 µg/L), Manganese (4.11 µg/L), Sodium (295 µg/L)

MW3 - Magnesium (445 µg/L), Sodium (4,270 µg/L)

MW4 - Magnesium (639 µg/L), Sodium (4,860 µg/L)

MW5- Iron (82.9 µg/L), (Magnesium (471 µg/L), Manganese (1.3 µg/L), Sodium (3,480 µg/L)

MW6 - Magnesium (115 µg/L), Manganese (1.43 µg/L), Sodium (704 µg/L)

Duplicate - Magnesium (67.2 µg/L), Manganese (4.52 µg/L), Sodium (326 µg/L)

#### **Total Metals in Groundwater Above NYSDEC AWQS:**

Multiple metals were reported above standards in the unfiltered samples from all of the wells including antimony, arsenic, barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, nickel, sodium and thallium.

Groundwater parameters reported above groundwater standards are presented in **Table 14** and posted on **Figure 7**.

#### *2.6.3 Analytical Results – Soil Vapor Samples*

In order to determine the vapor quality in the soil beneath the Site, soil vapor samples were collected from seven soil vapor implants (SV1, SV2, SV3, SV4, SV6, SV7 and SV8) installed at a depth of 2-



4 feet across the Site. SV5 malfunctioned and a sample was not collected. Analytical results were compared to the Summary of Background Levels for Selected Compounds (NYSDOH Database, Outdoor values, 2003).

Total petroleum-related VOCs (BTEX) ranged from 18.76  $\mu\text{g}/\text{m}^3$  @ SV-8 (interior northwest of Site) to 194.75  $\mu\text{g}/\text{m}^3$  @ SV-2 (north side of the Site).

Chlorinated VOCs (CVOCs) were reported in all of the soil vapor samples with Trichloroethylene (TCE) reported in three of the seven soil vapor samples, Tetrachloroethylene (PCE) reported in all seven samples, carbon tetrachloride was detected in one of the seven samples and 1,1,1-trichloroethane was detected on two of the seven samples. Detectable concentrations of TCE ranged from 0.53  $\mu\text{g}/\text{m}^3$  in SV1 located at the north side of the Site within the interior 1.39  $\mu\text{g}/\text{m}^3$  in SV located at the south side of the Site. PCE concentrations ranged from 0.94  $\mu\text{g}/\text{m}^3$  in SV7 located at the northeast side of the Site to 161  $\mu\text{g}/\text{m}^3$  in SV1 located at the north side of the Site. Detectable concentrations of 1,1,1-Trichloroethane ranged from 1.32  $\mu\text{g}/\text{m}^3$  in SV1 located at the north side of the Site to 6.71  $\mu\text{g}/\text{m}^3$  in SV4 located at the south side of the Site. Detectable concentrations of carbon tetrachloride were noted at 2.34  $\mu\text{g}/\text{m}^3$  in SV4 located at the south side of the Site.

Soil vapor results are summarized on **Table 13** and posted on **Figure 8**.

#### *2.6.4 Data Usability Summary Report*

Data validation services were provided by Alpha Geo Science of Clifton Park, New York and will be submitted to the NYSDEC upon receipt.

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### 3.0 HYDROGEOLOGIC ASSESSMENT AND PHYSICAL SETTING

#### 3.1 Site Topography

According to the USGS topographic map for the area (Central Park Quadrangle), the elevation of the property is approximately 10 feet above the National Geodetic Vertical Datum (NGVD). The area topography gradually slopes to the west.

#### 3.2 Surrounding Land Use

The area surrounding the property is highly urbanized and predominantly consists of heavy commercial / industrial / warehouse properties to the north along a corridor adjacent to the Harlem River. Multi-use residential / commercial (retail) properties are present to the east along Bruckner Boulevard and a large housing project is located to the northeast.

#### 3.3 Regional Geology / Hydrogeology

The bedrock geology at the property and in the immediate vicinity consists of Inwood Marble of Lower Ordovician to Lower Cambrian age with steep westerly dip of its upper surface. The depth to bedrock is anticipated at approximately 20 to 30 feet below land surface (ft-bls). Bedrock is overlain by an unconsolidated overburden of an unsorted heterogeneous mix of Pleistocene and Recent glacial material (i.e., glacial till) including clay, silt, sands, gravel, cobbles, and boulders. This overburden is overlain by historic urban fill.

#### 3.4 Site Geology / Hydrogeology

The bedrock geology at the property and immediate vicinity consists of Inwood Marble of Lower Ordovician to Lower Cambrian age with steep westerly dip of its upper surface. The depth to bedrock is anticipated at approximately 20 to 30 feet below land surface (ft-bls). Bedrock is overlain by an unconsolidated overburden of an unsorted heterogeneous mix of Pleistocene and Recent glacial material (i.e., glacial till) including clay, silt, sands, gravel, cobbles, and boulders. This overburden is overlain by historic urban fill.

Subsurface soils at the Site consist of historic fill materials to a depth of approximately 5 feet below grade extending to 15 ft in some areas. Brown sand, grey sand, dark brown sand clay, grey black clay with rock is present immediately below this layer. According to the USGS topographic map for the area (Central Park Quadrangle), the elevation of the property is approximately 5 feet above mean sea level. The topography within the immediate area slopes gradually to west.

Groundwater occurs beneath the Site at a depth of 6 to 7 feet below grade (**Table 2**) under water table conditions. Based upon on-site measurements, groundwater flow is to the west and west to southwest (**Figure 5**).

## 4.0 NATURE AND EXTENT OF CONTAMINATION

### 4.1 Identification of Source Areas

The source area identified during the RI is the petroleum contamination in the soil on the northwest side of the Site.

Historic fill material has been identified across the Site to depths as great as 5 feet below grade. The historic fill material contains SVOCs, metals including arsenic, chromium, copper, lead, mercury, nickel and zinc above unrestricted and / or restricted use SCOs.

### 4.2 Groundwater Impacts

Several petroleum-related compounds; benzene (9.2 ug/L), ethylbenzene (280 ug/L), isopropylbenzene (95 ug/L), naphthalene (1,300 ug/L), n-propylbenzene (20 ug/L) and toluene (12 ug/L) above standards at one monitoring well location (MW6) located on the west side of the Site.

SVOC detections above groundwater standards were detected for naphthalene (at 720 ug/L), benz(a)anthracene (maximum of 1.2 ug/L), benzo(b)fluoranthene (maximum of 0.46 ug/L), benzo(k)fluoranthene (maximum of 0.91 ug/L), chrysene (maximum of 1.2 ug/L) and indeno (1,2,3-cd), pyrene (maximum of 0.57 ug/L) in MW1, MW2, MW3, MW5, MW6 and MW7.

One pesticide was detected at concentrations above NYSDEC AWQS standards; Dieldrin in MW6. No PCBs were detected in any of the groundwater samples.

Several dissolved metals were detected above standards. Sodium and magnesium were detected above standards in all six of the sampled monitoring wells. Manganese was detected above standards in MW1, MW2, MW5 and MW6. Iron was detected above standards at 14MW8 and iron was detected above guidance values at MW5.

### 4.3 Soil-Vapor Impacts

Total petroleum-related VOCs (benzene, toluene, ethylbenzene, and xylene "BTEX") ranged from 18.76  $\mu\text{g}/\text{m}^3$  in SV8 to 194.75  $\mu\text{g}/\text{m}^3$  in SV2 which was collected on the north side of the Site. Total BTEX compounds ranged from 5.17  $\mu\text{g}/\text{m}^3$  (SS-4) to 69.38  $\mu\text{g}/\text{m}^3$  (SG-7) at all other soil vapor locations.

Chlorinated VOCs (CVOCs) were reported in all of the soil vapor samples with Tetrachloroethene (PCE) reported in all seven soil vapor samples. Carbon Tetrachloride, trichloroethene and 1,1,1-trichloroethane were detected in several of the soil vapor samples and had relatively low detections. Detectable concentrations of PCE ranged in concentration from 0.94  $\mu\text{g}/\text{m}^3$  in SV7 located at the northeast side of the Site within the building to 161  $\mu\text{g}/\text{m}^3$  in SV1 located on the north side of the Site within the building. Detectable concentrations of carbon tetrachloride were noted at 0.29  $\mu\text{g}/\text{m}^3$  in SV4 located at the southwest side of the Site. 1,1,1-Trichloroethane concentrations ranged from 1.32  $\mu\text{g}/\text{m}^3$  in SV1 located on the north side of the Site to 6.71  $\mu\text{g}/\text{m}^3$  from SV4 located in the

southwest side of the Site. Concentrations of trichloroethene ranged from 0.53  $\mu\text{g}/\text{m}^3$  from SV1 located on the north side of the Site to 1.39  $\mu\text{g}/\text{m}^3$  from SV1 located on the southwest side of the Site.

#### **4.4 Site Conceptual Model**

VOC contamination at the Site consists of petroleum related contaminants in soil at a depth of 12-14 feet in the northwestern portion of the Site and to a lesser degree in the southwestern portion of the Site.

Several petroleum VOCs were reported at elevated concentrations in one monitoring well in the vicinity of the northwestern impacted soil area indicating that some of the VOC impacted soil has transferred to the dissolved phase in this area.

PCE in soil vapor was reported in all locations with the highest concentration noted in the northeast corner of the property. The PCE present in the vapor phase appears to be migrating on site from an off-site source since PCE was not reported in any of the soil or ground water samples.

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## 5.0 QUALITATIVE EXPOSURE ASSESSMENT

The objective of the qualitative exposure assessment under the Brownfields Cleanup Program (BCP) is to identify potential receptors to the contaminants of concern (COC) that are present at, or migrating from, the Site. The identification of exposure pathways describes the route that the COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur. An exposure pathway has five elements; a contaminant source, release and transport mechanisms, point of exposure, route of exposure and a receptor population.

The potential exposure pathways identified below, represent both current and future exposure scenarios.

### 5.1 Contaminant Source

Source areas of the Site include petroleum VOCs located on the northwest side of the Site, which is likely associated with a historic release.

Elevated levels of metals, PAHs, PCBs and pesticides are also present in fill materials throughout the Site.

### 5.2 Contaminant Release and Transport Mechanism

Petroleum contamination is present in soil on the northwest side of the Site. The contamination extends vertically below the groundwater interface to a depth of 14 feet. There appears to be transfer of petroleum related VOC contaminants in soil to the groundwater.

There does not appear to be any transfer of petroleum VOCs to the vapor phase in close proximity to the source area (15B6 12-14 feet). Elevated PCE was noted in SG1 and appears to be migrating on site from an off-site source. PCE was not noted in any one site soil and groundwater samples.

### 5.3 Point of Exposure, Route of Exposure and Potentially Exposed Populations

Potential On-Site Exposures: Remediation workers and construction workers engaged in the excavation of impacted and non-impacted soil at the site may be exposed to petroleum VOCs / SVOCs, CVOCs, pesticides and heavy metals through several routes. Workers excavating impacted soil may be exposed to VOCs, SVOCs, pesticides and heavy metals through inhalation, ingestion and dermal contact. A site specific Health and Safety Plan has been developed to identify and minimize the potential hazards to on-site workers.

Site trespassers could also be exposed to impacted soil during excavation, however, security measures including an 8 ft high construction fence and 24 hr security will minimize potential exposure through this route.

Future occupants of the new building including commercial retail workers, residents and visitors could be exposed to SVOCs and heavy metals in soil through ingestion and dermal contact if these contaminants were to remain in exposed soils at the Site. Vapor intrusion of PCE is a potential concern for residents and commercial retail workers of the planned construction in the northwest corner of the Site although the concentration was lower than typical action levels. CVOCs in soil vapor appear to be migrating on site from an off-site source.

Potential Off-Site Exposures: Off-Site residents could also be exposed to dust or vapors during the excavation of impacted soil. A site specific Community Air Monitoring Plan has been developed to identify and minimize the potential for off-site exposure to residents through continuous air monitoring during excavation activity.

The entire area is serviced by the New York City Water System which distributes water from the Croton Reservoir system. Since there are no public or private potable supply wells in the area, exposure from contact with tap water is not a concern.

Based on the soil vapor results, soil vapor does not appear to be migrating off site and therefore off-site exposure was not identified.

Potential Off-Site Environmental Impacts: Since petroleum VOCs in groundwater may be migrating beneath the Site in a south to southwest direction, the groundwater to surface water discharge pathway was evaluated. The nearest surface water to the Site is the Harlem River located adjacent to the west of the Site.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

Subsurface soils at the Site include a silt and sand non-native fill with bricks, concrete, coal and other rubble to a depth of approximately 5 feet below grade. A native sand and clay is present below the fill to a depth of approximately 12 feet below grade. The fill material contains elevated levels some metals, pesticides PCBs and SVOCs.

Groundwater at the Site is present at a depth of approximately 6-7 feet below surface grade and flows in a west / southwestern direction towards the Harlem River.

The results of sampling performed during this RI identified petroleum VOC contamination in soil on the northwest side of the Site. The contamination is below the water table interface to a depth of 14 feet below grade.

Historic fill material has been identified across the Site to depths as great as 5 feet below grade. The historic fill material contains metals, SVOCs, PCBs and pesticides above unrestricted and / or restricted use SCOs.

Groundwater is impacted with petroleum VOCs immediately in the source area.

Soil vapor sampling identified petroleum- related volatile organic compounds (BTEX). Chlorinated VOCs (CVOCs) were reported in almost all of the soil vapor samples with the highest concentrations reported on the north side of the Site. CVOCs were noted in the soil or groundwater and which suggests an off-site source.

The qualitative exposure assessment identified potential completed routes of exposure to construction workers and remediation workers through inhalation, ingestion and dermal contact of petroleum compounds, CVOCs, pesticides, PCBs and heavy metals during excavation activities. The Health and Safety Plan prepared for the site identifies such exposures and provides instructions for on-site workers to minimize potential exposure. Occupants in the proposed on-site commercial buildings may be exposed to CVOCs through the vapor intrusion pathway, if remedial action is not taken to prevent off site vapor intrusion.

The exposure assessment indicated a limited potential exposure to residents and commercial workers in adjacent buildings which would be reduced further following the removal of the identified source areas.

Potential environmental impacts through the groundwater to surface water discharge were considered likely based on the distance to the Harlem River.

Recommendations include removal of the onsite USTs, excavation and disposal of petroleum a contaminated soil within the source areas and proper handling and disposal of all soils excavated for structural elements of the new building. This work would be performed under an approved Remedial Action Work Plan (RAWP) which will include a Soil Management Plan, a Construction Health and Safety Plan and a Community Air Monitoring Plan.

## **7.0 REFERENCES**

6 NYCRR Part 375 Environmental Remediation Programs Subparts 375-1, 375-3 and 375-6

Langan, *Phase I Environmental Site Assessment* – April , 2014

NYSDEC, Division of Environmental Remediation, May 2004, *Draft Brownfield Program Cleanup Guide*.

NYSDEC, Division of Environmental Remediation, December 2002, *DER-10, Technical Guidance for Site Investigation and Remediation*.

NYSDEC, Division of Environmental Remediation, December 14, 2006, *6 NYCRR Part 375, Environmental Remediation Programs, subparts 375-1 to 375-4 & 375-6*.

NYSDEC, Division of Water, June 1998, Addendum April 2000, *Technical and Administrative Guidance Series 1:1:1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*.

NYSDOH, Center for Environmental Health, October 2006, *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*.



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# **TABLES**

**TABLE 1  
 SUMMARY OF  
 SAMPLING PROGRAM RATIONALE AND ANALYSIS**

<b>Matrix</b>	<b>Location</b>	<b>Number of Samples</b>	<b>Rationale for Sampling</b>	<b>Laboratory Analysis</b>
Subsurface soil (0 to 15 feet)	12 soil borings throughout the site. Samples collected at 0-2 ft and 12-14 ft intervals (15SB1-15SB12)	24	To evaluate the extent of soil impact and obtain information on soil quality at the Site.	VOCs EPA Method 8260B, SVOCs EPA Method 8270, pesticide / PCBs EPA Method 8081/8082, TAL metals.
<b>Total (Soils)</b>		24		
Groundwater (water table)	From 6 monitoring wells across the Site.	6	To assess groundwater quality at the Site.	VOCs EPA Method 8260B, SVOCs EPA Method 8270, pesticide / PCBs EPA Method 8081/8082, Total metals & Dissolved metals.
<b>Total (Groundwater)</b>		6		
Soil Gas (SV1-SV4, SV6-SV8 3 ft below existing grade)	7 soil gas implants installed across the Site.	7	Evaluate soil gas across the Site.	VOCs EPA Method TO15
<b>Total (Soil Gas)</b>		7		
Duplicates	Duplicate of groundwater and soil samples collected for analysis	1	To meet requirements of QA / QC program	VOCs EPA Method 8260B, SVOCs EPA Method 8270 BN, pesticide / PCBs EPA Method 8081/8082, TAL metals, Total metals and Dissolved metals
Trip Blanks	One laboratory prepared trip blank to accompany samples each time they are delivered to the laboratory.	1	To meet requirements of QA / QC program	VOCs EPA Method 8260B
<b>Total (QA / QC Samples)</b>		2		

744 Bedford Avenue  
Brooklyn, New York

Table 12  
Well Survey Data

Well No.	Well Diameter (in)	Total Well Depth (ft)	Screened Interval (ft)	Survey Reading	Casing Elevation	DTW 7/9/2014	DTP	PT	GW ELV 12/10/2015
MW1	1	15	5-15	3.86	96.14	7.31	-	-	88.83
MW2	1	15	5-15	4.00	96	7.68	-	-	88.32
MW3	1	15	5-15	4.00	96	7.21	-	-	88.79
MW4	1	15	5-15	4.91	95.09	7.98	-	-	87.11
MW5	1	15	5-15	5.24	94.76	5.82	-	-	88.94
MW6	1	15	5-15	4.91	95.09	6.53	-	-	88.56









Former Bronx Freight Terminal  
101 Lincoln Avenue,  
Bronx, New York

TABLE 5A  
Soil Analytical Results  
Pesticides PCBs

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	15B1				15B2				15B3				15B4				15B5				15B6				
			(0-2) 12/7/2015 µg/Kg		(12-14) 12/7/2015 µg/Kg		(0-2) 12/7/2015 µg/Kg		(12-14) 12/7/2015 µg/Kg		(0-2) 12/4/2015 µg/Kg		(12-14) 12/4/2015 µg/Kg		(0-2) 12/4/2015 µg/Kg		(12-14) 12/4/2015 µg/Kg		(0-2) 12/4/2015 µg/Kg		(12-14) 12/4/2015 µg/Kg		(0-2) 12/4/2015 µg/Kg		(12-14) 12/7/2015 µg/Kg		
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
Pesticides	4,4' -DDD	3.3	13,000	< 2.1	2.1	< 2.5	2.5	< 2.1	2.1	< 2.4	2.4	< 2.0	2.0	< 2.4	2.4	< 2.2	2.2	< 2.5	2.5	< 2.2	2.2	< 2.9	2.9	< 2.3	2.3	< 4.0	4.0
	4,4' -DDE	3.3	8,900	< 2.1	2.1	< 2.5	2.5	< 2.1	2.1	< 2.4	2.4	< 2.2	2.2	< 2.4	2.4	< 2.2	2.2	< 2.5	2.5	<b>6.5</b>	2.2	< 2.9	2.9	<b>5.1</b>	2.3	< 2.7	2.7
	4,4' -DDT	3.3	7,900	< 2.1	2.1	< 2.5	2.5	< 2.1	2.1	< 2.4	2.4	< 10	10	< 2.4	2.4	< 2.2	2.2	< 2.5	2.5	<b>14</b>	2.2	<b>4.1</b>	2.9	<b>7.4</b>	2.3	< 2.7	2.7
	a-BHC	20	480	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 23	23
	a-Chlordane	94	4,200	< 3.6	3.6	< 4.1	4.1	< 3.5	3.5	< 3.9	3.9	< 3.7	3.7	< 4.1	4.1	< 3.6	3.6	< 4.2	4.2	< 3.7	3.7	< 4.9	4.9	< 3.8	3.8	< 65	65
	Aldrin	5	97	< 3.6	3.6	< 4.1	4.1	< 3.5	3.5	< 3.9	3.9	< 3.7	3.7	< 4.1	4.1	< 3.6	3.6	< 4.2	4.2	< 3.7	3.7	< 4.9	4.9	< 3.8	3.8	< 23	23
	b-BHC	36	360	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 65	65
	Chlordane	94	4,200	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 450	450
	d-BHC	40	100,000	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 45	45
	Dieldrin	5	200	< 3.6	3.6	< 4.1	4.1	< 3.5	3.5	< 3.9	3.9	< 3.7	3.7	< 4.1	4.1	< 3.6	3.6	< 4.2	4.2	< 3.7	3.7	< 4.9	4.9	< 3.8	3.8	< 220	220
	Endosulfan I	2,400	24,000	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 91	91
	Endosulfan II	2,400	24,000	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 91	91
	Endosulfan sulfate	2,400	24,000	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 91	91
	Endrin	14	11,000	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 55	55
	Endrin aldehyde			< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 20	20	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 91	91
	Endrin ketone			< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 91	91
	g-BHC			< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 1.6	1.6	< 1.5	1.5	< 1.6	1.6	< 1.4	1.4	< 1.7	1.7	< 1.5	1.5	< 2.0	2.0	< 1.5	1.5	< 18	18
	g-Chlordane			< 3.6	3.6	< 4.1	4.1	< 3.5	3.5	< 3.9	3.9	< 3.7	3.7	< 4.1	4.1	< 3.6	3.6	< 4.2	4.2	< 3.7	3.7	< 4.9	4.9	< 3.8	3.8	< 45	45
	Heptachlor	42	2,100	< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 45	45
	Heptachlor epoxide			< 7.1	7.1	< 8.2	8.2	< 7.0	7.0	< 7.8	7.8	< 7.4	7.4	< 8.1	8.1	< 7.2	7.2	< 8.4	8.4	< 7.4	7.4	< 9.8	9.8	< 7.6	7.6	< 91	91
Methoxychlor			< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 450	450	
Toxaphene			< 140	140	< 160	160	< 140	140	< 160	160	< 150	150	< 160	160	< 140	140	< 170	170	< 150	150	< 200	200	< 150	150	< 1800	1,800	
PCBs	PCB-1016	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
	PCB-1221	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
	PCB-1232	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
	PCB-1242	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
	PCB-1248	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
	PCB-1254	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
	PCB-1260	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	<b>170</b>	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
	PCB-1262	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45
PCB-1268	100	1,000	< 36	36	< 41	41	< 35	35	< 39	39	< 37	37	< 41	41	< 36	36	< 42	42	< 37	37	< 49	49	< 38	38	< 45	45	

Notes:

\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL- Reporting Limit

**Bold/highlighted-** Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Bold/highlighted-** Indicated exceedance of the NYSDEC RRSO Guidance Value





Former Bronx Freight Terminal  
101 Lincoln Avenue,  
Bronx, New York

TABLE 6A  
Soil Analytical Results  
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	15B1				15B2				15B3				15B4				15B5				15B6					
			(0-2) 12/7/2015 mg/Kg		(12-14) 12/7/2015 m/Kg		(0-2) 12/7/2015 mg/Kg		(12-14) 12/7/2015 mg/Kg		(0-2) 12/4/2015 mg/Kg		(12-14) 12/4/2015 mg/Kg		(0-2) 12/4/2015 mg/Kg		(12-14) 12/4/2015 mg/Kg		(0-2) 12/4/2015 mg/Kg		(12-14) 12/7/2015 mg/Kg		(0-2) 12/4/2015 mg/Kg		(12-14) 12/7/2015 mg/Kg			
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			8,800	34	7,940	39	13,300	35	10,200	35	14,900	35	10,800	41	5,780	34	9,560	41	5,940	35	13,800	49	9,040	35	4,940	47		
Antimony			< 1.7	1.7	< 2.0	2.0	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.1	2.1	1.8	1.7	< 2.1	2.1	4.7	1.8	< 2.5	2.5	< 1.8	1.8	< 2.3	2.3		
Arsenic	13	16	4.3	0.7	3.1	0.8	4.3	0.7	2.3	0.7	4	0.7	4.5	0.8	20.8	0.7	3	0.8	17.2	0.7	21.1	1.0	14.3	0.7	26.8	0.9		
Barium	350	350	72.4	0.7	55.2	0.8	134	0.7	28.4	0.7	72.6	0.7	59.6	0.8	466	0.7	99.8	0.8	176	0.7	147	1.0	152	0.7	221	0.9		
Beryllium	7.2	14	0.88	0.27	0.42	0.31	0.4	0.28	0.3	0.28	0.81	0.28	0.41	0.33	0.27	0.27	0.25	0.33	0.47	0.28	0.65	0.39	0.45	0.28	0.2	0.38		
Cadmium	2.5	2.5	0.14	0.34	< 0.39	0.39	< 0.35	0.35	< 0.35	0.35	< 0.35	0.35	0.2	0.41	0.8	0.34	< 0.41	0.41	1.19	0.35	0.77	0.49	0.6	0.35	1.99	0.47		
Calcium			47,200	34	23,300	39	39,200	35	1,530	3.5	27,400	35	56,900	41	28,200	34	91,100	41	9,860	3.5	6,820	4.9	5,660	3.5	22,000	47		
Chromium	30	180	17.3	0.34	15	0.39	25.8	0.35	23.1	0.35	24.8	0.35	16	0.41	15.1	0.34	18.3	0.41	32.1	0.35	38.4	0.49	19.5	0.35	21.1	0.47		
Cobalt			10.9	0.34	7.25	0.39	13	0.35	10.1	0.35	11.8	0.35	6.75	0.41	9.95	0.34	8.82	0.41	8.2	0.35	11.3	0.49	11.8	0.35	15	0.47		
Copper	50	270	27.7	0.34	18.2	0.39	43.5	0.35	10.4	0.35	26.1	0.35	27.1	0.41	81.2	0.34	22	0.41	138	0.35	121	0.49	52.4	0.35	340	4.7		
Iron			16,400	34	13,000	39	23,000	35	15,500	35	25,000	35	22,400	41	23,500	34	17,100	41	25,300	35	27,600	49	26,900	35	103,000	47		
Lead	63	400	74.3	0.7	98.2	0.8	90.2	0.7	4.4	0.7	57.5	0.7	96.9	0.8	4,750	68	44.2	0.8	388	7.0	584	9.8	208	7.0	609	9.4		
Magnesium			30,600	34	11,200	39	5,990	35	4,470	3.5	16,900	35	8,330	41	3,120	3.4	56,600	41	2,780	3.5	7,000	4.9	4,250	3.5	3,870	4.7		
Manganese	1,600	2,000	379	3.4	215	3.9	205	3.5	219	3.5	629	3.5	311	4.1	151	3.4	136	0.41	241	3.5	372	4.9	318	3.5	329	4.7		
Mercury	0.18	0.81	0.15	0.03	0.06	0.03	2.74	0.27	< 0.03	0.03	0.59	0.03	0.07	0.03	0.97	0.03	0.43	0.03	0.48	0.03	5.64	0.35	0.45	0.03	1.5	0.04		
Nickel	30	140	18.8	0.34	13.4	0.39	19.7	0.35	14.8	0.35	18.8	0.35	13.5	0.41	21.8	0.34	16.2	0.41	26	0.35	28.4	0.49	23.4	0.35	40.5	0.47		
Potassium			3,110	7	1,780	8	6,140	71	2,170	7	3,200	7	2,920	8	2,210	7	5,030	82	1,250	7	4,000	10	3,210	70	1,040	9		
Selenium	3.9	36	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 2.0	2.0	< 1.4	1.4	< 1.9	1.9		
Silver	2	36	< 0.34	0.34	0.4	0.39	< 0.35	0.35	< 0.35	0.35	< 0.35	0.35	< 0.41	0.41	< 0.34	0.34	< 0.41	0.41	< 0.35	0.35	1	0.49	< 0.35	0.35	< 0.47	0.47		
Sodium			321	7	709	8	865	7	416	7	313	7	2,540	8	694	7	2,710	8	394	7	2,560	10	400	7	903	9		
Thallium			< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 2.0	2.0	< 1.4	1.4	< 1.9	1.9		
Vanadium			23.8	0.3	20.5	0.4	33.3	0.4	33.3	0.4	33	0.3	25.8	0.4	21.3	0.3	22.1	0.4	38.1	0.4	34.9	0.5	31.7	0.4	47.5	0.5		
Zinc	109	2,200	516	6.8	46.1	0.8	133	7.1	32.7	0.7	77.3	0.7	66.5	0.8	384	6.8	51.6	0.8	282	7.0	295	9.8	180	7.0	413	9.4		

Notes:

\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL- Reporting Limit

**Bold/highlighted**- Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Bold/highlighted**- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 6B  
Soil Analytical Results  
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	15B7				15B8				15B9				15B10				15B11				15B12				Duplicate	
			(0-2') 12/7/2015 µg/Kg		(12-14') 12/7/2015 µg/Kg		(0-2') 12/4/2015 mg/Kg		(12-14') 12/4/2015 mg/Kg		(0-2') 12/4/2015 mg/Kg		(12-14') 12/7/2015 mg/Kg		(0-2') 12/4/2015 mg/Kg		(12-14') 12/4/2015 mg/Kg		(0-2') 12/4/2015 mg/Kg		(12-14') 12/4/2015 mg/Kg		12/4/2015 mg/Kg					
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
Aluminum			14,000	36	8,150	38	7,280	38	9,230	39	12,200	39	6,790	37	11,200	38	5,370	41	4,220	39	19,300	52	10,700	35	23,200	410	11,200	36
Antimony			< 1.8	1.8	< 1.9	1.9	3.5	1.9	< 1.9	1.9	< 1.9	1.9	< 1.9	1.9	< 1.9	1.9	< 2.1	2.1	7.6	2.0	< 26	26	< 1.7	1.7	< 2.0	2.0	< 1.8	1.8
Arsenic	13	16	6	0.7	1.3	0.8	16	0.8	1.4	0.8	5.8	0.8	3.9	0.7	4.7	0.8	3.3	0.8	22.3	0.8	20.5	1.0	3.5	0.7	3.2	0.8	5.6	0.7
Barium	350	350	63.4	7.3	13.2	0.8	189	0.8	97.5	0.8	117	0.8	137	0.7	118	0.8	60.9	0.8	120	0.8	201	1.0	88.9	0.7	82.1	0.8	95.3	0.7
Beryllium	7.2	14	0.49	0.29	0.31	0.30	0.47	0.31	0.45	0.31	0.52	0.31	0.34	0.30	0.56	0.31	0.28	0.33	0.51	0.31	0.9	0.42	0.41	0.28	0.87	0.32	0.58	0.29
Cadmium	2.5	2.5	< 0.36	0.36	< 0.38	0.38	1.14	0.38	< 0.39	0.39	0.33	0.39	0.17	0.37	0.33	0.38	0.36	0.41	1.23	0.39	10.3	0.52	< 0.35	0.35	< 0.41	0.41	0.29	0.36
Calcium			2,710	36	842	3.8	20,900	38	58,700	39	3,400	3.9	36,200	37	33,300	38	4,900	4.1	10,600	3.9	11,300	5.2	22,300	35	1,130	4.1	6,510	3.6
Chromium	30	180	16.9	3.6	22.3	0.38	21.7	0.38	16.1	0.39	18.4	0.39	16.8	0.37	19.9	0.38	12.1	0.41	16	0.39	46.9	0.52	19.1	0.35	47.3	0.41	20.7	0.36
Cobalt			8.6	3.6	7.24	0.38	8.27	0.38	8.38	0.39	8.46	0.39	7.99	0.37	10.5	0.38	6.12	0.41	9.4	0.39	14.4	0.52	9.86	0.35	13	0.41	9.66	0.36
Copper	50	270	26.8	0.36	13.1	0.38	86.9	0.38	26.3	0.39	41.2	0.39	36.8	0.37	31.9	0.38	43.2	0.41	114	0.39	181	0.52	36.4	0.35	31.8	0.41	62.3	0.36
Iron			23,100	36	11,400	38	23,100	38	15,800	39	21,200	39	17,000	37	21,100	38	17,700	41	28,800	39	39,400	52	19,100	35	36,400	41	22,100	36
Lead	63	400	92.2	7.3	3.7	0.8	478	7.6	124	0.8	383	7.8	476	7.4	120	0.8	243	8.2	437	7.8	519	10	73.9	0.7	7.3	0.8	297	7.2
Magnesium			3,470	36	4,100	38	6,230	38	33,800	39	3,700	3.9	4,610	3.7	17,600	38	4,100	4.1	1,780	3.9	9,100	52	6,770	35	12,500	41	3,630	3.6
Manganese	1,600	2,000	620	3.6	111	0.38	258	3.8	420	3.9	355	3.9	182	3.7	372	3.8	188	4.1	239	3.9	464	5.2	315	3.5	181	4.1	426	3.6
Mercury	0.18	0.81	6.38	0.30	< 0.03	0.03	0.48	0.03	0.69	0.03	6.18	0.28	0.4	0.03	0.6	0.03	0.47	0.03	0.29	0.03	4.43	0.37	0.32	0.03	< 0.03	0.03	8.06	0.27
Nickel	30	140	17.8	3.6	13.6	0.38	21.4	0.38	13.2	0.39	18.4	0.39	18.5	0.37	20.1	0.38	13.3	0.41	22.5	0.39	33.5	0.52	18.2	0.35	24.9	0.41	17.6	0.36
Potassium			1,090	7	1,660	8	1,590	8	2,890	8	1,580	8	3,370	7	3,700	8	1,380	8	810	8	4,900	10	3,360	7	4,040	81	1,640	7
Selenium	3.9	36	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.6	1.6	< 2.1	2.1	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4
Silver	2	36	< 0.36	0.36	< 0.38	0.38	< 0.38	0.38	< 0.39	0.39	< 0.39	0.39	< 0.37	0.37	< 0.38	0.38	< 0.41	0.41	< 0.39	0.39	1.53	0.52	< 0.35	0.35	< 0.41	0.41	< 0.36	0.36
Sodium			633	7	607	8	646	8	1,160	8	343	8	1,910	7	1,340	8	428	8	263	8	1,390	10	531	7	2,020	8	486	7
Thallium			< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.6	1.6	< 2.1	2.1	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4
Vanadium			21.6	3.6	26.8	0.4	38.9	0.4	23	0.4	23.7	0.4	26.5	0.4	32.9	0.4	16.3	0.4	27.2	0.4	45.5	0.5	30.3	0.3	51.4	0.4	27.5	0.4
Zinc	109	2,200	147	7.3	30.1	0.8	335	7.6	85.5	0.8	135	0.8	148	7.4	194	7.7	72.5	0.8	244	7.8	4,160	100	58.9	0.7	58.9	0.8	128	0.7

Notes:  
 \* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives  
 RL: Reporting Limit  
 Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value  
 Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value





TABLE 9  
Groundwater Analytical Results  
Pesticides/PCBs

	Compound	NYSDEC Groundwater Quality Standards µg/L	MW1 12/8/2015 µg/L		MW2 12/8/2015 µg/L		MW3 12/8/2015 µg/L		MW4 12/8/2015 µg/L		MW5 12/8/2015 µg/L		MW6 12/8/2015 µg/L		Duplicate 12/8/2015 µg/L			
			Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
			PCBs	PCB-1016	0.09	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050
PCB-1221	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
PCB-1232	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
PCB-1242	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
PCB-1248	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
PCB-1254	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
PCB-1260	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
PCB-1262	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
PCB-1268	0.09	< 0.050		0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.077	0.077	< 0.050	0.050	< 0.050	0.050		
Pesticides	4,4-DDD	0.3	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.025	0.025	< 0.25	0.25	< 0.010	0.010		
	4,4-DDE	0.2	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.025	0.025	< 0.25	0.25	< 0.010	0.010		
	4,4-DDT	0.11	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.025	0.025	< 0.25	0.25	< 0.010	0.010		
	a-BHC	0.94	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.012	0.012	< 0.13	0.13	< 0.005	0.005		
	a-Chlordane		< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.050	0.050	< 0.50	0.50	< 0.010	0.010		
	Alachlor		< 0.075	0.075	< 0.075	0.075	< 0.075	0.075	< 0.075	0.075	< 0.38	0.38	< 3.8	3.8	< 0.075	0.075		
	Aldrin		< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.008	0.008	< 0.075	0.075	< 0.002	0.002		
	b-BHC	0.04	< 0.010	0.010	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.025	0.025	< 0.13	0.13	< 0.005	0.005		
	Chlordane	0.05	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.050	0.050	< 0.25	0.25	< 2.5	2.5	< 0.050	0.050		
	d-BHC	0.04	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.025	0.025	< 0.25	0.25	< 0.005	0.005		
	Dieldrin	0.004	< 0.004	0.004	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.008	0.008	<b>0.49</b>	0.075	< 0.004	0.004		
	Endosulfan I		< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.050	0.050	< 0.25	0.25	< 0.010	0.010		
	Endosulfan II		< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.050	0.050	< 0.25	0.25	< 0.010	0.010		
	Endosulfan Sulfate		< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.050	0.050	< 0.25	0.25	< 0.010	0.010		
	Endrin		< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.025	0.025	< 0.25	0.25	< 0.010	0.010		
	Endrin aldehyde	5	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.050	0.050	< 0.25	0.25	< 0.010	0.010		
	Endrin ketone		< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.050	0.050	< 0.25	0.25	< 0.010	0.010		
	gamma-BHC	0.05	< 0.020	0.020	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.025	0.025	< 0.13	0.13	< 0.005	0.005		
	g-Chlordane		< 0.020	0.020	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.050	0.050	< 0.25	0.25	< 0.010	0.010		
	Heptachlor	0.04	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.025	0.025	< 0.25	0.25	< 0.010	0.010		
Heptachlor epoxide	0.03	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.010	0.010	< 0.025	0.025	< 0.25	0.25	< 0.010	0.010			
Methoxychlor	35	< 0.10	0.10	< 0.10	0.10	< 0.10	0.10	< 0.10	0.10	< 0.50	0.50	< 0.25	0.25	< 0.10	0.10			
Toxaphene		< 0.25	0.25	< 0.25	0.25	< 0.20	0.20	< 0.25	0.25	< 1.3	1.3	< 13	13	< 0.25	0.25			

Notes:

RL- Reporting limit

ND - Non-detect

ND\* - Due to matrix interference from non target compounds in the sample an elevated RL was reported.

**Bold/highlighted-** Indicated exceedance of the NYSDEC Groundwater Standard

Compound	NYSDEC Groundwater Quality Standards mg/L	MW1		MW2		MW3		MW4		MW5		MW6		Duplicate	
		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Total Metals		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Aluminum	NS	54.9	0.050	7.12	0.050	20.9	0.050	0.442	0.050	74.4	0.050	72.3	1.0	5.9	1.0
Antimony	0.003	< 0.002	0.002	< 0.002	0.002	0.004	0.002	0.008	0.002	0.005	0.002	0.01	0.002	< 0.002	0.002
Arsenic	0.025	0.025	0.020	< 0.020	0.020	0.005	0.020	< 0.020	0.020	0.062	0.020	0.113	0.020	< 0.020	0.020
Barium	1	0.697	0.050	0.134	0.050	0.418	0.050	0.025	0.050	0.981	0.050	2.92	0.050	0.131	0.050
Beryllium	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003
Cadmium	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	0.011	0.020	0.009	0.020	< 0.005	0.005
Calcium	NS	400	0.050	161	0.050	415	0.050	216	0.050	337	0.050	597	0.050	160	0.050
Chromium	0.05	0.098	0.005	0.014	0.005	0.027	0.005	< 0.005	0.005	0.15	0.005	0.273	0.005	0.014	0.005
Cobalt	NS	0.028	0.025	0.008	0.025	0.01	0.025	< 0.025	0.025	0.045	0.025	0.068	0.025	0.007	0.025
Copper	0.2	0.213	0.025	0.015	0.025	0.054	0.025	< 0.025	0.025	0.409	0.025	1.07	0.025	0.011	0.025
Iron	0.5	86.4	0.05	11	0.05	24.6	0.05	0.22	0.05	344	0.05	442	0.05	11.1	0.05
Lead	0.025	1.34	0.010	0.041	0.010	0.398	0.010	0.016	0.010	1.9	0.010	3.3	0.010	0.034	0.010
Magnesium	35	137	0.05	61.7	0.05	434	1.0	606	1.0	459	1.0	172	0.05	61.9	0.05
Manganese	0.3	2.02	0.025	4.21	0.025	0.62	0.025	0.149	0.025	2.89	0.025	3.83	0.025	4.2	0.025
Mercury	0.0007	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	0.07	0.020	0.005	0.020	0.014	0.020	< 0.020	0.020	0.174	0.020	0.231	0.020	< 0.020	0.020
Potassium	NS	107	0.5	51.3	0.5	176	0.5	191	0.5	170	0.5	67	10	46.9	0.5
Selenium	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01
Silver	0.05	< 0.025	0.025	< 0.025	0.025	< 0.025	0.025	< 0.025	0.025	< 0.025	0.025	< 0.025	0.025	< 0.025	0.025
Sodium	2	982	10	343	10	4,720	10	5,470	10	4,040	10	745	10	318	10
Thallium	0.0005	< 0.0005	0.0005	0.0006	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005
Vanadium	NS	0.104	0.050	0.015	0.050	0.029	0.050	< 0.050	0.050	0.184	0.050	0.207	0.050	0.009	0.050
Zinc	2	0.545	0.050	0.037	0.050	0.257	0.050	0.019	0.050	1.21	0.050	3.78	0.050	0.032	0.050

Notes:

RL- Reporting limit

NS - No Standard

**Bold/highlighted-** Indicated exceedance of the NYSDEC Groundwater Standard

Table 10B  
Groundwater Analytical Results  
Dissolved Metals

Compound  Dissolved Metals	NYSDEC Groundwater Quality Standards  mg/L	MW1		MW2		MW3		MW4		MW5		MW6	
		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Aluminum	NS	<b>0.029</b>	0.011	<b>0.014</b>	0.011	<b>0.045</b>	0.011	<b>0.015</b>	0.011	<b>0.021</b>	0.011	<b>0.02</b>	0.011
Antimony	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003
Arsenic	0.025	<b>0.003</b>	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003
Barium	1	<b>0.24</b>	0.011	<b>0.098</b>	0.011	<b>0.242</b>	0.011	<b>0.026</b>	0.011	<b>0.311</b>	0.011	<b>0.598</b>	0.011
Beryllium	0.003	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cadmium	0.005	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	<b>0.002</b>	0.004	< 0.004	0.004
Calcium	NS	<b>325</b>	0.11	<b>164</b>	0.11	<b>399</b>	0.11	<b>220</b>	0.11	<b>327</b>	0.11	<b>284</b>	0.11
Chromium	0.05	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cobalt	NS	<b>0.002</b>	0.005	<b>0.004</b>	0.005	< 0.005	0.005	< 0.005	0.005	<b>0.002</b>	0.005	<b>0.003</b>	0.005
Copper	0.2	<b>0.002</b>	0.005	<b>0.001</b>	0.005	<b>0.001</b>	0.005	<b>0.004</b>	0.005	< 0.005	0.005	< 0.005	0.005
Iron	0.5	<b>0.03</b>	0.01	<b>0.02</b>	0.01	< 0.05	0.05	< 0.01	0.01	<b>82.9</b>	0.01	<b>0.2</b>	0.01
Lead	0.025	<b>0.005</b>	0.002	<b>0.001</b>	0.002	<b>0.005</b>	0.002	< 0.002	0.002	<b>0.003</b>	0.002	< 0.002	0.002
Magnesium	35	<b>105</b>	0.11	<b>61</b>	0.11	<b>445</b>	0.11	<b>639</b>	0.11	<b>471</b>	0.11	<b>115</b>	0.11
Manganese	0.3	<b>0.566</b>	0.005	<b>4.11</b>	0.053	<b>0.164</b>	0.005	<b>0.147</b>	0.005	<b>1.3</b>	0.005	<b>1.43</b>	0.005
Mercury	0.0007	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	<b>0.003</b>	0.004	<b>0.004</b>	0.004	< 0.004	0.004	<b>0.004</b>	0.004	<b>0.003</b>	0.004	<b>0.032</b>	0.004
Potassium	NS	<b>98.2</b>	1.1	<b>51.2</b>	0.1	<b>226</b>	1.1	<b>267</b>	1.1	<b>194</b>	1.1	<b>57.6</b>	1.1
Selenium	0.01	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Silver	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Sodium	2	<b>972</b>	11	<b>295</b>	1.1	<b>4,270</b>	11	<b>4,860</b>	11	<b>3,480</b>	11	<b>704</b>	11
Thallium	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005
Vanadium	NS	< 0.011	0.011	< 0.011	0.011	<b>0.003</b>	0.011	<b>0.002</b>	0.011	< 0.011	0.011	<b>0.002</b>	0.011
Zinc	2	<b>0.006</b>	0.053	<b>0.006</b>	0.053	< 0.053	0.053	<b>0.017</b>	0.053	<b>0.008</b>	0.053	<b>0.007</b>	0.053

Notes:

RL- Reporting limit

NS - No Standard

**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**





TABLE 12  
Parameters Detected Above Track ( ) Soil Cleanup Objectives  
Soil Borings 15SB1-15SB12

COMPOUND	Range in Exceedances	Frequency of Detection	15B1		15B2	15B3		15B4		15B5		15B6		15B7	15B8		15B9		15B10		15B11		15B12		Duplicate	
			12/7/2015		12/7/2015	12/4/2015		12/4/2015		12/4/2015		12/7/2015		12/7/2015	12/4/2015		12/4/2015		12/4/2015		12/4/2015		12/4/2015			
			(0-2')	(12-14')	(0-2')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')		
<i>Sample Results in ug/kg</i>																										
Acetone	51-320	5			-	77	-				51	-	-		61			-		53		320	-	-	-	
Ethylbenzene	2,700-31,000	2			-	-	-				-	-	31,000		-			2,700		-		-	-	-		
n-Propylbenzene	3,900	1			-	-	-				-	-	3,900		-			-		-		-	-	-		
<i>Sample Results in ug/kg</i>																										
Benzo(a)anthracene	1,100-9,600	9			2,400					1,100	2,900	2,400	9,600		7,000					7,400	1,100	1,800				
Benzo(a)pyrene	1,200-9,000	9			2,400					1,200	2,600	2,500	9,000		6,300					6,700	1,400	1,700				
Benzo(b)fluoranthene	1,100-7,000	9			2,100					1,100	1,600	2,300	7,000		7,000					5,800	1,400	1,100				
Benzo(k)fluoranthene	950-6,500	9			2,100					950	1,900	2,100	6,500		4,300					4,300	1,000	1,200				
Chrysene	1,300-10,000	9			2,600					1,300	3,000	2,600	10,000		7,400					8,200	1,400	2,000				
Dibenz(a,h)anthracene	370-910	4			-	-				-	-	370	910		840					820						
Indeno(1,2,3-cd)pyrene	740-4,600	9			1,400					740	1,300	1,600	4,600		3,800					3,600	950	1,000				
<i>Sample Results in ug/kg</i>																										
4,4'-DDD	8.8-53	3													53						8.8			10		
4,4'-DDE	5.1-27	4								6.5			5.1		27						6.9					
4,4'-DDT	4.1-48	7								14.0	4.1		7.4		40						10.0		10	48		
PCB-1260	170.0	1				170																				
<i>Sample Results in mg/kg</i>																										
Arsenic	14.3-26.8	8								20.8		17.2	21.1	14.3	26.8						22.30	20.50				
Barium	466	1								466																
Cadmium	10.3	1																			10.30					
Chromium	32.1-47.30	4										32.1	38.4								46.90		47.30			
Copper	52.4-340	9								81.20		138	121	52.4	340					86.9	114	181			62.30	
Lead	73.9-4,750	20	74.3	98	90.2		96.90			4,750	388	584	208	609	92.2	478	124	383	749	120	243	437	519	73.90	297	
Mercury	0.32-6.38	19			2.74	0.59				0.97	0.43	0.48	5.64	0.45	1.5	6.38	0.48	0.69	6.18	0.4	0.60	0.47	0.29	4.43	0.32	8.06
Nickel	33.5-40.5	2											40.5									33.50				
Zinc	128-4,160	15	516		133					384		282	295	180	413	147	335		135	148	194	244	4,160		128	

Former Bronx Freight Terminal  
 101 Lincoln Avenue  
 Bronx, New York

TABLE 13  
 Parameters Detected Above Ambient Water Quality Standards

VOCs

COMPOUND	Range in Detections	Number of Occurrences	MW6	
			12/8/2015	
<i>Sample Results in (µg/L)</i>				
Benzene	9.2	1	9.2	
Ethylbenzene	280	1	280	
Isopropylbenzene	95	1	95	
Naphthalene	1,300	1	1,300	
n-Propylbenzene	20	1	20	
Toluene	12	1	12	

SVOCs

COMPOUND	Range in Detections	Number of Occurrences	MW1		MW2		MW3		MW5		MW6		Duplicate	
			12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
<i>Sample Results in (µg/L)</i>														
Naphthalene	720	1	-		-		-		-		720		-	
Benz(a)anthracene	0.09-1.2	5	0.51		0.66		0.09		0.16		-		1.2	
Benzo(b)fluoranthene	0.06-0.9	5	0.38		0.46		0.06		0.12		-		0.9	
Benzo(k)fluoranthene	0.06-0.91	5	0.41		0.48		0.06		0.12		-		0.91	
Chrysene	0.08-1.2	5	0.53		0.63		0.08		0.15		-		1.2	
Indeno(1,2,3-cd)pyrene	0.04-0.57	5	0.26		0.3		0.04		0.08		-		0.57	

TABLE 13  
Parameters Detected Above Ambient Water Quality Standards

Pesticides/PCBs

COMPOUND	Range in Detections	Number of Occurrences	MW6	
			12/8/2015	
<i>Sample Results in (µg/L)</i>				
Dieldrin	0.49	1	0.49	

Metals (Total)

COMPOUND	Range in Detections	Number of Occurrences	MW1		MW2		MW3		MW4		MW5		MW6		Duplicate	
			12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
<i>Sample Results in (mg/L)</i>																
Antimony	0.004-0.01	4	-		-		0.004		0.008		0.005		0.01		-	
Arsenic	0.062-0.113	2									0.062		0.113			
Barium	3	1											2.92			
Cadmium	0.009-0.011	2									0.011		0.009			
Chromium	0.098-0.273	2	0.098								0.15		0.273			
Copper	0.213-1.07	3	0.213								0.409		1.07			
Iron	11-442	6	86.4		11		24.6				344		442		11.1	
Lead	0.034-3.3	6	1.34		0.041		0.398				1.9		3.3		0.034	
Magnesium	61.7-606	7	137		61.7		434		606		459		172		61.9	
Manganese	0.62-4.21	6	2.02		4.21		0.62				2.89		3.83		4.2	
Nickel	0.174-0.231	2	-		-		-		-		0.174		0.231		-	
Sodium	318-5,740	7	982		343		4,720		5,740		4,040		745		318	
Thallium	0.0006	1	-		0.0006		-		-		-		-		-	

Metals (Dissolved)

COMPOUND	Range in Detections	Number of Occurrences	MW1		MW2		MW3		MW4		MW5		MW6		Duplicate	
			12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
<i>Sample Results in (mg/L)</i>																
Iron	83	1	-		-		-		-		82.9		-		-	
Magnesium	61-639	7	105		61		445		639		471		115		67.2	
Manganese	0.566-4.52	6	0.566		4.11		0.62				1.3		1.43		4.52	
Sodium	326-4,860	7	972		295		4,270		4,860		3,480		704		326	

TABLE 12  
Parameters Detected Above Track ( ) Soil Cleanup Objectives  
Soil Borings 15SB1-15SB12

COMPOUND	Range in Exceedances	Frequency of Detection	15B1		15B2	15B3		15B4		15B5		15B6		15B7	15B8		15B9		15B10		15B11		15B12		Duplicate	
			12/7/2015		12/7/2015	12/4/2015		12/4/2015		12/4/2015		12/7/2015		12/7/2015	12/4/2015		12/4/2015		12/4/2015		12/4/2015		12/4/2015			
			(0-2')	(12-14')	(0-2')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')	(0-2')	(12-14')		
<i>Sample Results in ug/kg</i>																										
Acetone	51-320	5			-	77	-				51	-	-		61			-		53		320	-	-	-	
Ethylbenzene	2,700-31,000	2			-	-	-				-	-	31,000		-			2,700		-		-	-	-		
n-Propylbenzene	3,900	1			-	-	-				-	-	3,900		-			-		-		-	-	-		
<i>Sample Results in ug/kg</i>																										
Benzo(a)anthracene	1,100-9,600	9			2,400					1,100	2,900	2,400	9,600		7,000					7,400	1,100	1,800				
Benzo(a)pyrene	1,200-9,000	9			2,400					1,200	2,600	2,500	9,000		6,300					6,700	1,400	1,700				
Benzo(b)fluoranthene	1,100-7,000	9			2,100					1,100	1,600	2,300	7,000		7,000					5,800	1,400	1,100				
Benzo(k)fluoranthene	950-6,500	9			2,100					950	1,900	2,100	6,500		4,300					4,300	1,000	1,200				
Chrysene	1,300-10,000	9			2,600					1,300	3,000	2,600	10,000		7,400					8,200	1,400	2,000				
Dibenz(a,h)anthracene	370-910	4			-	-				-	-	370	910		840					820						
Indeno(1,2,3-cd)pyrene	740-4,600	9			1,400					740	1,300	1,600	4,600		3,800					3,600	950	1,000				
<i>Sample Results in ug/kg</i>																										
4,4'-DDD	8.8-53	3													53						8.8			10		
4,4'-DDE	5.1-27	4								6.5			5.1		27						6.9					
4,4'-DDT	4.1-48	7								14.0	4.1		7.4		40						10.0		10	48		
PCB-1260	170.0	1				170																				
<i>Sample Results in mg/kg</i>																										
Arsenic	14.3-26.8	8								20.8		17.2	21.1	14.3	26.8						22.30	20.50				
Barium	466	1								466																
Cadmium	10.3	1																			10.30					
Chromium	32.1-47.30	4										32.1	38.4								46.90		47.30			
Copper	52.4-340	9								81.20		138	121	52.4	340					86.9	114	181			62.30	
Lead	73.9-4,750	20	74.3	98	90.2		96.90			4,750	388	584	208	609	92.2	478	124	383	749	120	243	437	519	73.90	297	
Mercury	0.32-6.38	19			2.74	0.59				0.97	0.43	0.48	5.64	0.45	1.5	6.38	0.48	0.69	6.18	0.4	0.60	0.47	0.29	4.43	0.32	8.06
Nickel	33.5-40.5	2											40.5									33.50				
Zinc	128-4,160	15	516		133					384		282	295	180	413	147	335		135	148	194	244	4,160		128	

Former Bronx Freight Terminal  
 101 Lincoln Avenue  
 Bronx, New York

TABLE 13  
 Parameters Detected Above Ambient Water Quality Standards

VOCs

COMPOUND	Range in Detections	Number of Occurrences	MW6	
			12/8/2015	
<i>Sample Results in (µg/L)</i>				
Benzene	9.2	1	9.2	
Ethylbenzene	280	1	280	
Isopropylbenzene	95	1	95	
Naphthalene	1,300	1	1,300	
n-Propylbenzene	20	1	20	
Toluene	12	1	12	

SVOCs

COMPOUND	Range in Detections	Number of Occurrences	MW1		MW2		MW3		MW5		MW6		Duplicate	
			12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
<i>Sample Results in (µg/L)</i>														
Naphthalene	720	1	-		-		-		-		720		-	
Benz(a)anthracene	0.09-1.2	5	0.51		0.66		0.09		0.16		-		1.2	
Benzo(b)fluoranthene	0.06-0.9	5	0.38		0.46		0.06		0.12		-		0.9	
Benzo(k)fluoranthene	0.06-0.91	5	0.41		0.48		0.06		0.12		-		0.91	
Chrysene	0.08-1.2	5	0.53		0.63		0.08		0.15		-		1.2	
Indeno(1,2,3-cd)pyrene	0.04-0.57	5	0.26		0.3		0.04		0.08		-		0.57	

TABLE 13  
Parameters Detected Above Ambient Water Quality Standards

Pesticides/PCBs

COMPOUND	Range in Detections	Number of Occurrences	MW6	
			12/8/2015	
<i>Sample Results in (µg/L)</i>				
Dieldrin	0.49	1	0.49	

Metals (Total)

COMPOUND	Range in Detections	Number of Occurrences	MW1		MW2		MW3		MW4		MW5		MW6		Duplicate	
			12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
<i>Sample Results in (mg/L)</i>																
Antimony	0.004-0.01	4	-		-		0.004		0.008		0.005		0.01		-	
Arsenic	0.062-0.113	2									0.062		0.113			
Barium	3	1											2.92			
Cadmium	0.009-0.011	2									0.011		0.009			
Chromium	0.098-0.273	2	0.098								0.15		0.273			
Copper	0.213-1.07	3	0.213								0.409		1.07			
Iron	11-442	6	86.4		11		24.6				344		442		11.1	
Lead	0.034-3.3	6	1.34		0.041		0.398				1.9		3.3		0.034	
Magnesium	61.7-606	7	137		61.7		434		606		459		172		61.9	
Manganese	0.62-4.21	6	2.02		4.21		0.62				2.89		3.83		4.2	
Nickel	0.174-0.231	2	-		-		-		-		0.174		0.231		-	
Sodium	318-5,740	7	982		343		4,720		5,740		4,040		745		318	
Thallium	0.0006	1	-		0.0006		-		-		-		-		-	

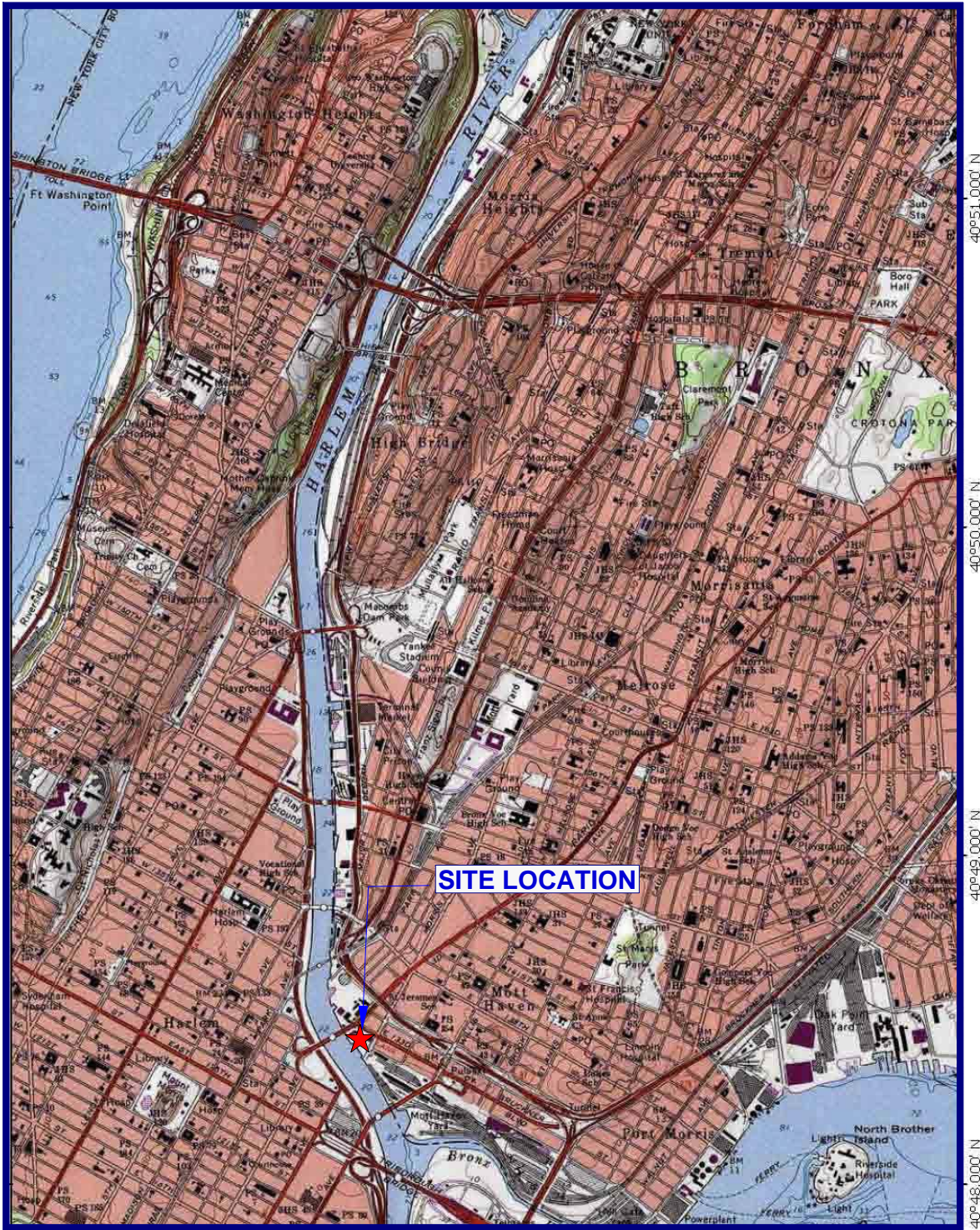
Metals (Dissolved)

COMPOUND	Range in Detections	Number of Occurrences	MW1		MW2		MW3		MW4		MW5		MW6		Duplicate	
			12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015		12/8/2015	
<i>Sample Results in (mg/L)</i>																
Iron	83	1	-		-		-		-		82.9		-		-	
Magnesium	61-639	7	105		61		445		639		471		115		67.2	
Manganese	0.566-4.52	6	0.566		4.11		0.62				1.3		1.43		4.52	
Sodium	326-4,860	7	972		295		4,270		4,860		3,480		704		326	

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# **FIGURES**





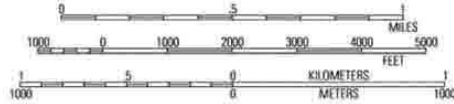
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40°50.000' N  
40°49.000' N  
40°48.000' N

73°57.000' W

73°56.000' W

73°55.000' W

WGS84 73°54.000' W



USGS Central Park Quadrangle 1995, Contour Interval = 10 feet



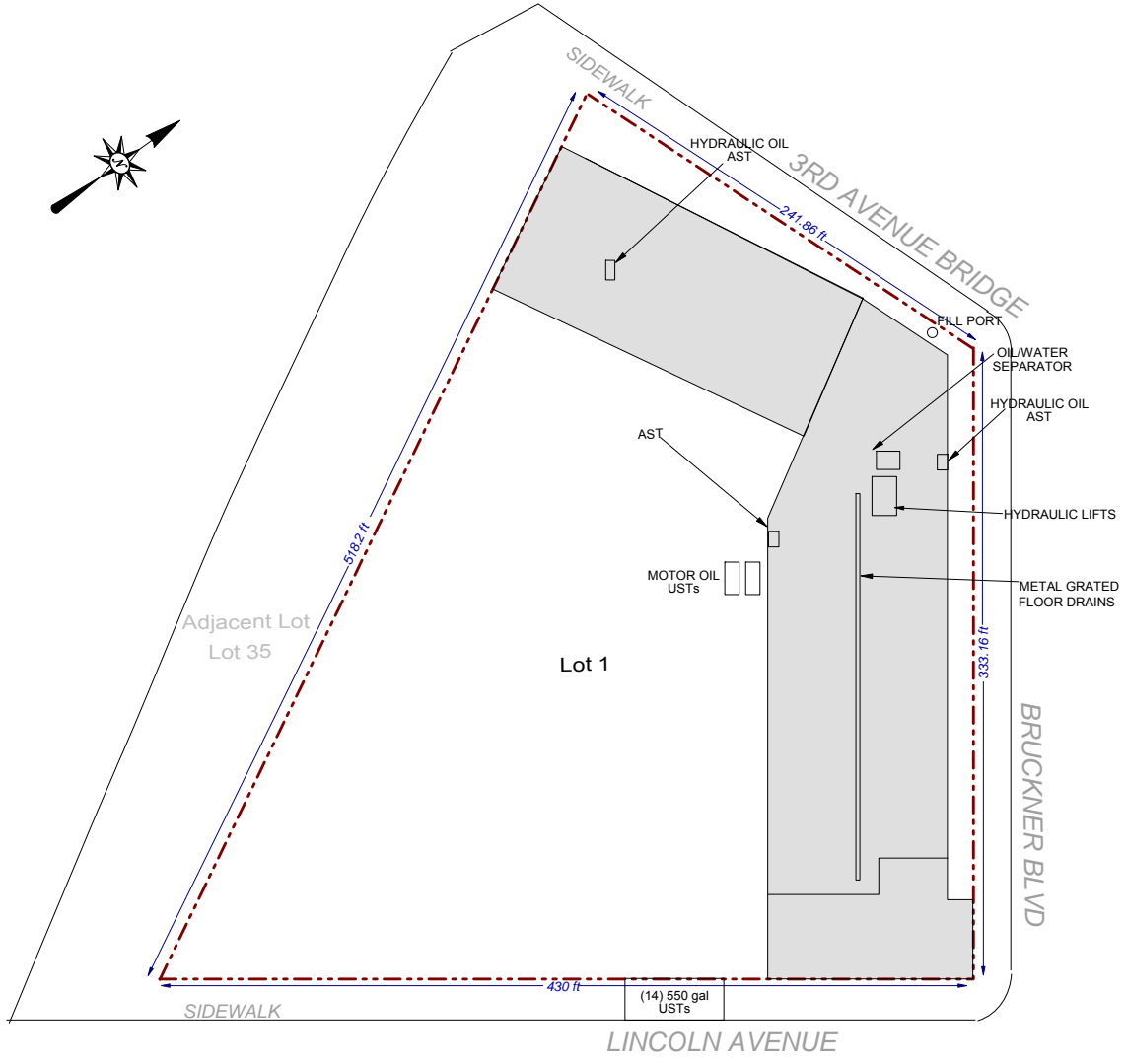
ENVIRONMENTAL BUSINESS CONSULTANTS

Phone 631.504.6000  
Fax 631.924.2870

Former Bronx Terminal  
101 Lincoln Avenue, Bronx NY

**FIGURE 1**

**SITE LOCATION MAP**



**KEY:**  
 --- Site Boundary

**SCALE:**  
 0 25 50 100  
 Scale: 1 inch = 100 feet

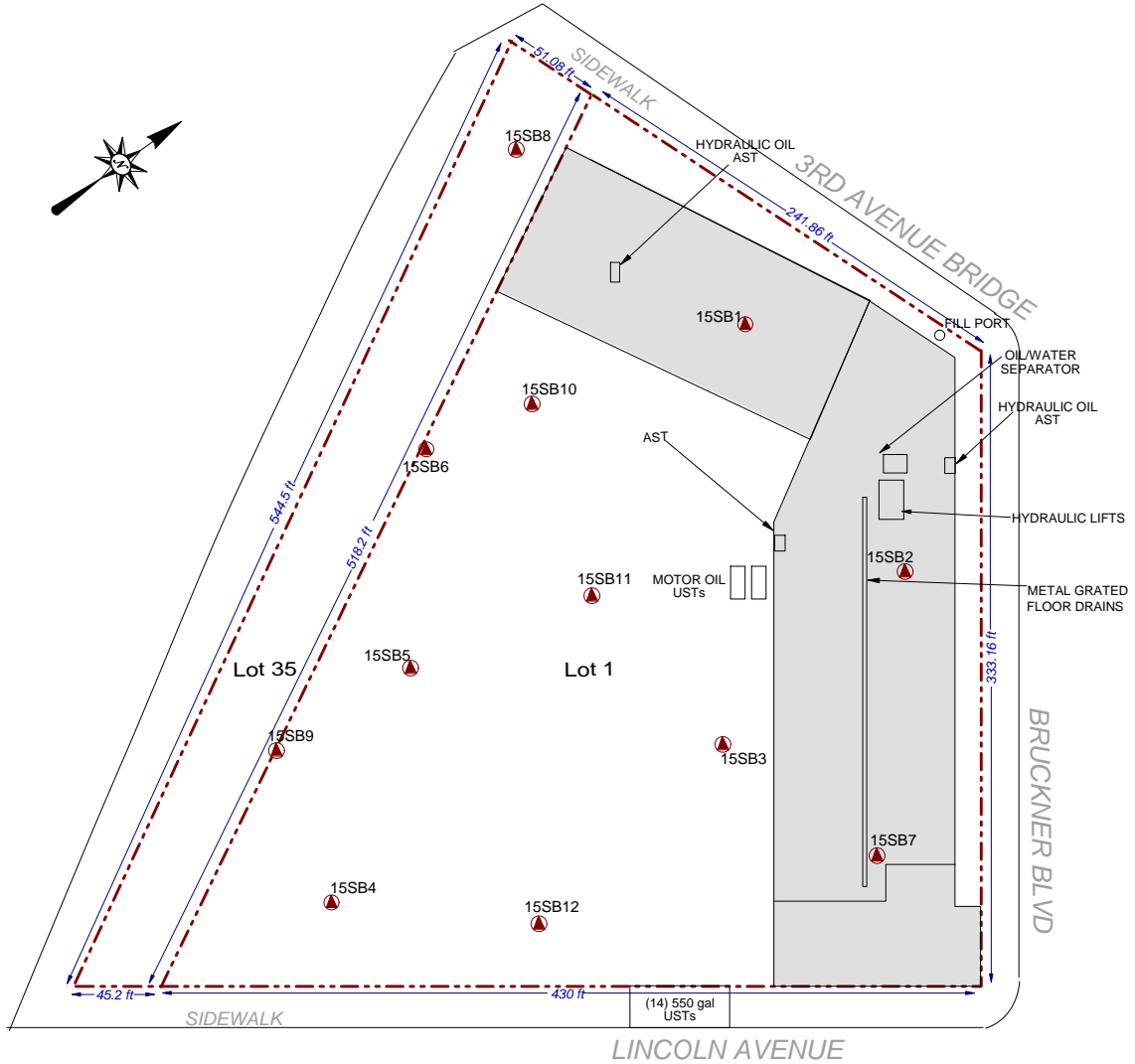
**BBC**  
 Environmental Business Consultants

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 Fax 631.924.2870

**Figure No.**  
**2**

Site Name:	Former Bronx Freight Terminal
Site Address:	101 Lincoln Avenue, Bronx, NY
Drawing Title:	Site Boundary Map





**KEY:**  
 - - - Property Line  
 Bx RI Soil Boring Location  
 15SBx Soil Boring Location

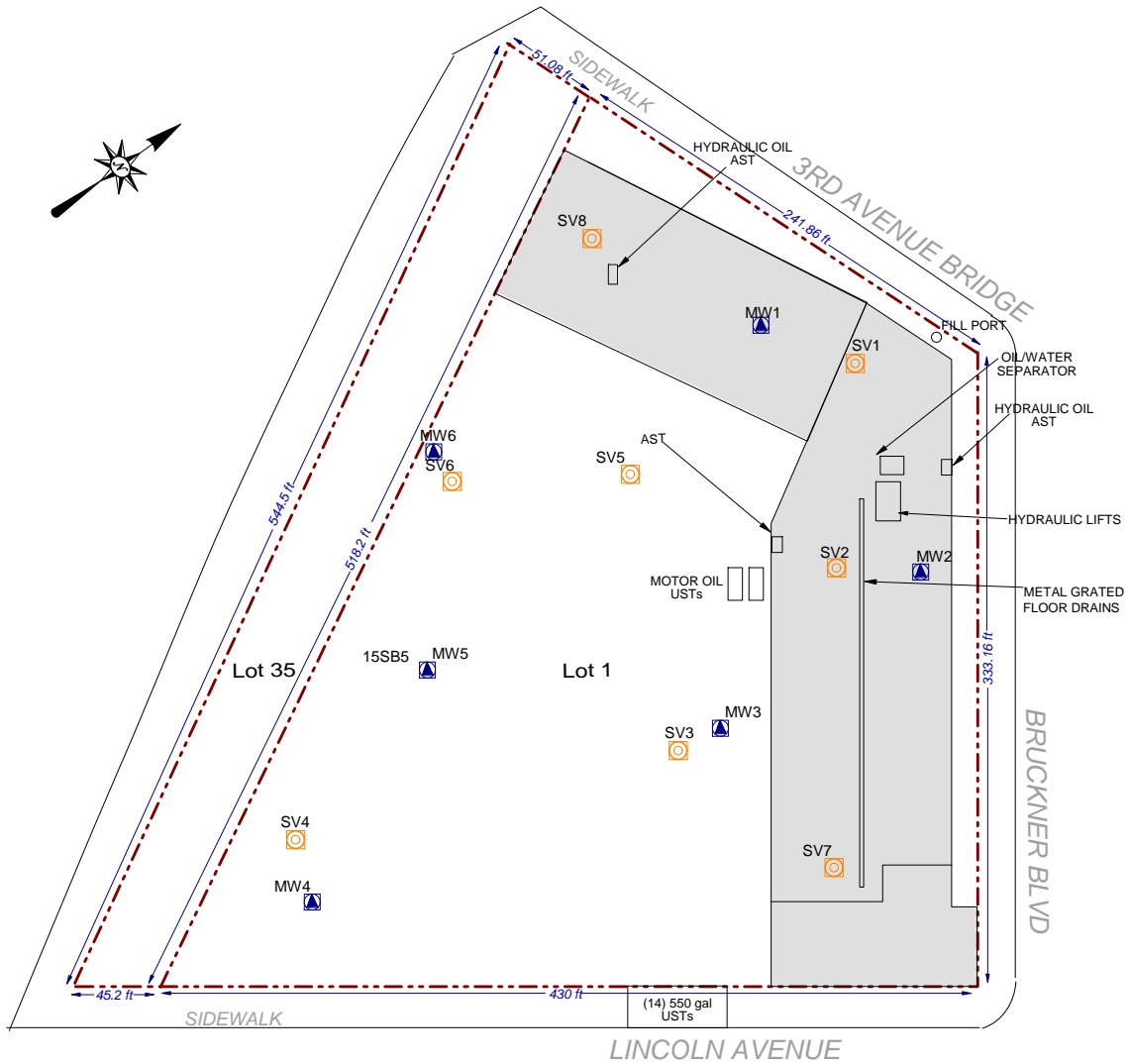
**SCALE:**  
 0 25 50 100  
 Scale: 1 inch = 100 feet

**BBC**  
 ENVIRONMENTAL BUSINESS CONSULTANTS

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Figure No.  
**3**

Site Name: **FORMER BRONX FREIGHT TERMINAL**  
 Site Address: **101 LINCOLN AVENUE, BRONX, NY**  
 Drawing Title: **SOIL BORING LOCATIONS**



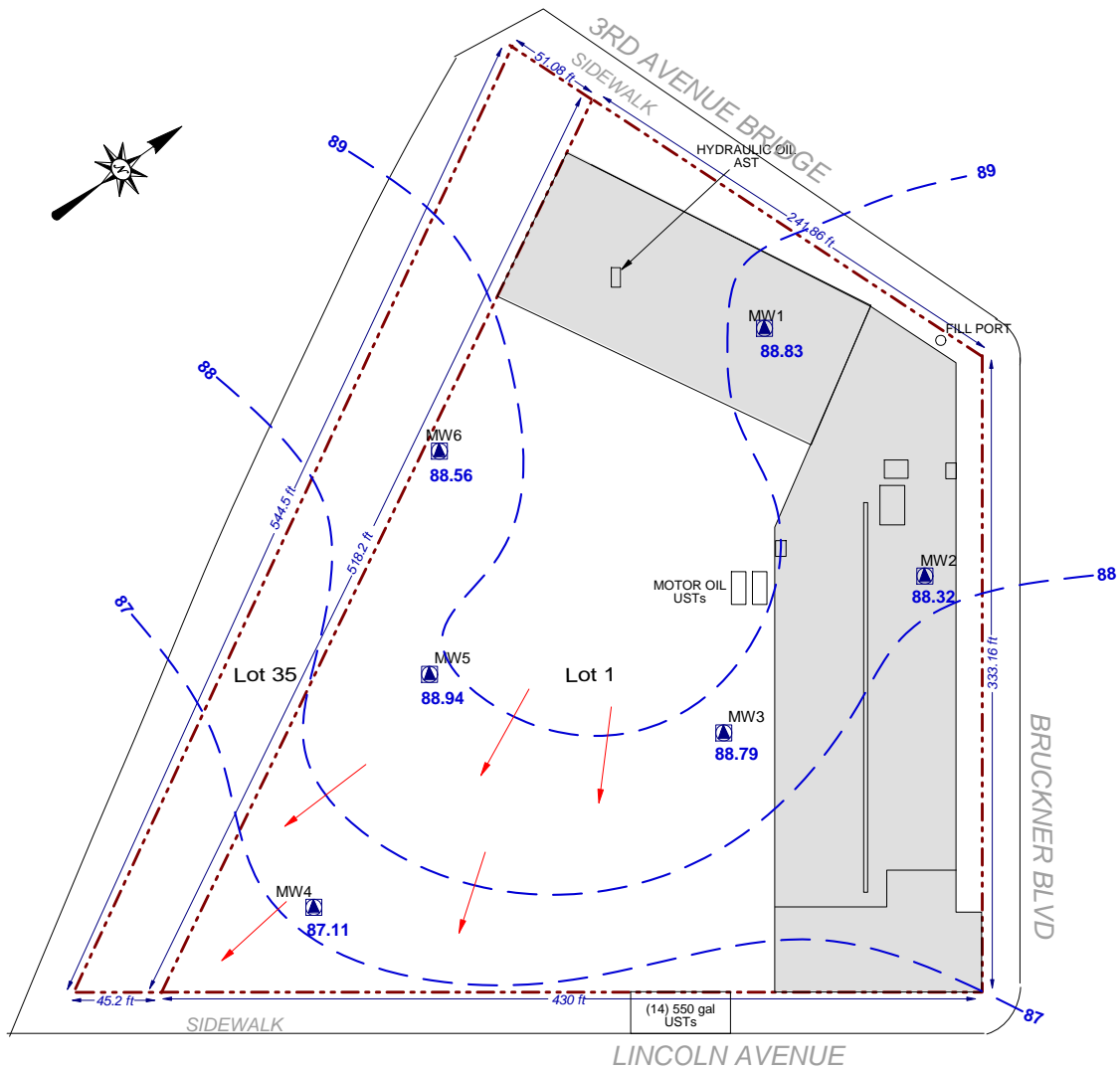
**KEY:**

- Property Line
- MWx Groundwater Sampling Location
- SVx Soil Gas Sampling Location

**SCALE:**

Scale: 1 inch = 100 feet

<p>Phone 631.504.6000 Fax 631.924.2870</p>	<p><b>Figure No.</b></p> <p><b>4</b></p>	<p>Site Name: <b>FORMER BRONX FREIGHT TERMINAL</b></p>
		<p>Site Address: <b>101 LINCOLN AVENUE, BRONX, NY</b></p>
		<p>Drawing Title: <b>GROUNDWATER AND SOIL GAS LOCATIONS</b></p>



**KEY:**

- Property Line
- MW<sub>x</sub> Groundwater Sampling Location
- Groundwater Flow Direction

**SCALE:**

Scale: 1 inch = 100 feet

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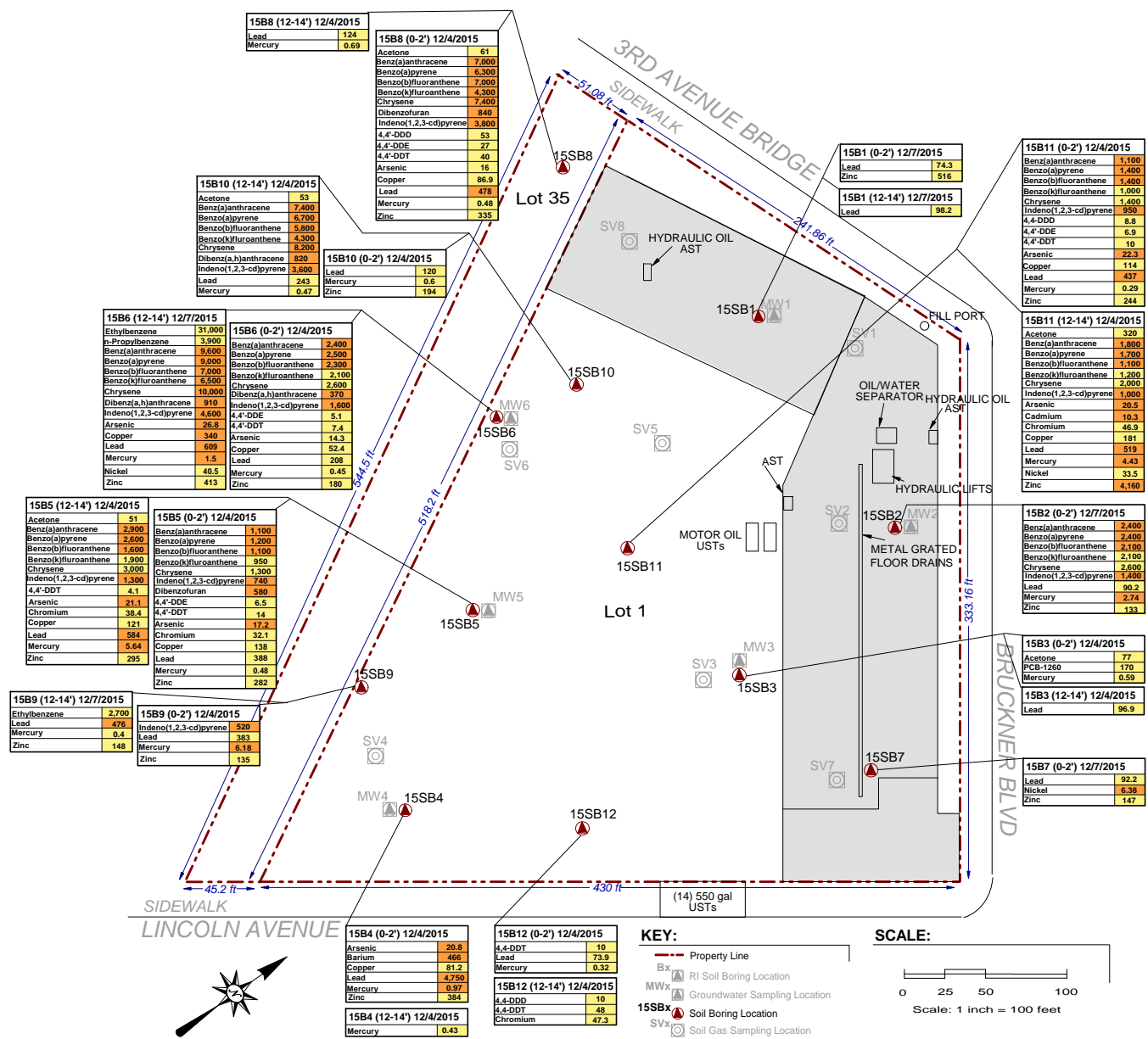
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Figure No.  
**5**

Site Name: **FORMER BRONX FREIGHT TERMINAL**

Site Address: **101 LINCOLN AVENUE, BRONX, NY**

Drawing Title: **GROUNDWATER FLOW MAP**



15B8 (12-14') 12/4/2015	
Lead	124
Mercury	0.69

15B8 (0-2') 12/4/2015	
Acetone	61
Benz(a)anthracene	7,000
Benzo(a)pyrene	6,300
Benzo(b)fluoranthene	7,000
Benzo(k)fluoranthene	4,300
Chrysene	7,400
Dibenzofuran	840
Indeno(1,2,3-cd)pyrene	3,800
4,4'-DDD	33
4,4'-DDE	27
4,4'-DDT	40
Arsenic	16
Copper	86.9
Lead	478
Mercury	0.48
Zinc	335

15B10 (12-14') 12/4/2015	
Acetone	53
Benz(a)anthracene	7,400
Benzo(a)pyrene	6,700
Benzo(b)fluoranthene	5,900
Benzo(k)fluoranthene	4,300
Chrysene	8,200
Dibenz(a,h)anthracene	820
Indeno(1,2,3-cd)pyrene	3,600
Lead	243
Mercury	0.47

15B10 (0-2') 12/4/2015	
Lead	120
Mercury	0.6
Zinc	194

15B6 (12-14') 12/7/2015	
Ethylbenzene	31,000
n-Propylbenzene	3,900
Benz(a)anthracene	9,600
Benzo(a)pyrene	9,000
Benzo(b)fluoranthene	7,000
Benzo(k)fluoranthene	6,500
Chrysene	10,000
Dibenz(a,h)anthracene	910
Indeno(1,2,3-cd)pyrene	4,600
4,4'-DDT	26.8
Arsenic	28.8
Copper	340
Chromium	609
Lead	695
Mercury	1.5
Nickel	40.5
Zinc	413

15B6 (0-2') 12/4/2015	
Benz(a)anthracene	2,400
Benzo(a)pyrene	2,500
Benzo(b)fluoranthene	2,300
Benzo(k)fluoranthene	2,100
Chrysene	2,600
Dibenz(a,h)anthracene	370
Indeno(1,2,3-cd)pyrene	1,600
4,4'-DDE	5.1
4,4'-DDT	7.4
Arsenic	14.3
Copper	52.4
Lead	208
Mercury	0.45
Zinc	180

15B5 (12-14') 12/4/2015	
Acetone	51
Benz(a)anthracene	2,900
Benzo(a)pyrene	2,600
Benzo(b)fluoranthene	1,600
Benzo(k)fluoranthene	1,900
Chrysene	3,000
Indeno(1,2,3-cd)pyrene	1,300
4,4'-DDT	4.1
Arsenic	21.1
Chromium	38.4
Copper	121
Lead	584
Mercury	5.64
Zinc	295

15B5 (0-2') 12/4/2015	
Benz(a)anthracene	1,100
Benzo(a)pyrene	1,200
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	950
Chrysene	1,300
Indeno(1,2,3-cd)pyrene	740
Dibenzofuran	580
4,4'-DDE	6.5
4,4'-DDT	14
Arsenic	17.2
Chromium	32.1
Copper	138
Lead	388
Mercury	0.48
Zinc	282

15B9 (12-14') 12/7/2015	
Ethylbenzene	2,700
Lead	476
Mercury	0.4
Zinc	148

15B9 (0-2') 12/4/2015	
Indeno(1,2,3-cd)pyrene	520
Lead	383
Mercury	6.38
Zinc	135

15B4 (0-2') 12/4/2015	
Arsenic	20.8
Barium	466
Copper	81.2
Lead	4,750
Mercury	0.97
Zinc	384

15B12 (0-2') 12/4/2015	
4,4'-DDT	10
Lead	73.9
Mercury	0.32

15B12 (12-14') 12/4/2015	
4,4'-DDD	10
4,4'-DDT	48
Chromium	47.3

15B4 (12-14') 12/4/2015	
Mercury	0.43

15B1 (0-2') 12/7/2015	
Lead	74.3
Zinc	316

15B1 (12-14') 12/7/2015	
Lead	98.2

15B11 (0-2') 12/4/2015	
Benz(a)anthracene	1,100
Benzo(a)pyrene	1,400
Benzo(b)fluoranthene	1,400
Benzo(k)fluoranthene	1,000
Chrysene	1,400
Indeno(1,2,3-cd)pyrene	950
4,4'-DDD	8.8
4,4'-DDE	6.9
4,4'-DDT	10
Arsenic	22.3
Copper	114
Lead	437
Mercury	0.29
Zinc	244

15B11 (12-14') 12/4/2015	
Acetone	320
Benz(a)anthracene	1,800
Benzo(a)pyrene	1,700
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	1,200
Chrysene	2,000
Indeno(1,2,3-cd)pyrene	1,000
Arsenic	20.5
Cadmium	10.3
Chromium	46.9
Copper	181
Lead	519
Mercury	4.43
Nickel	33.5
Zinc	4,160

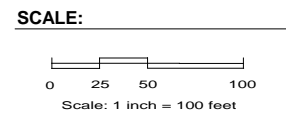
15B2 (0-2') 12/7/2015	
Benz(a)anthracene	2,400
Benzo(a)pyrene	2,400
Benzo(b)fluoranthene	2,100
Benzo(k)fluoranthene	2,100
Chrysene	2,600
Indeno(1,2,3-cd)pyrene	1,400
Lead	90.2
Mercury	2.74
Zinc	133

15B3 (0-2') 12/4/2015	
Acetone	77
PCB-1260	170
Mercury	0.59

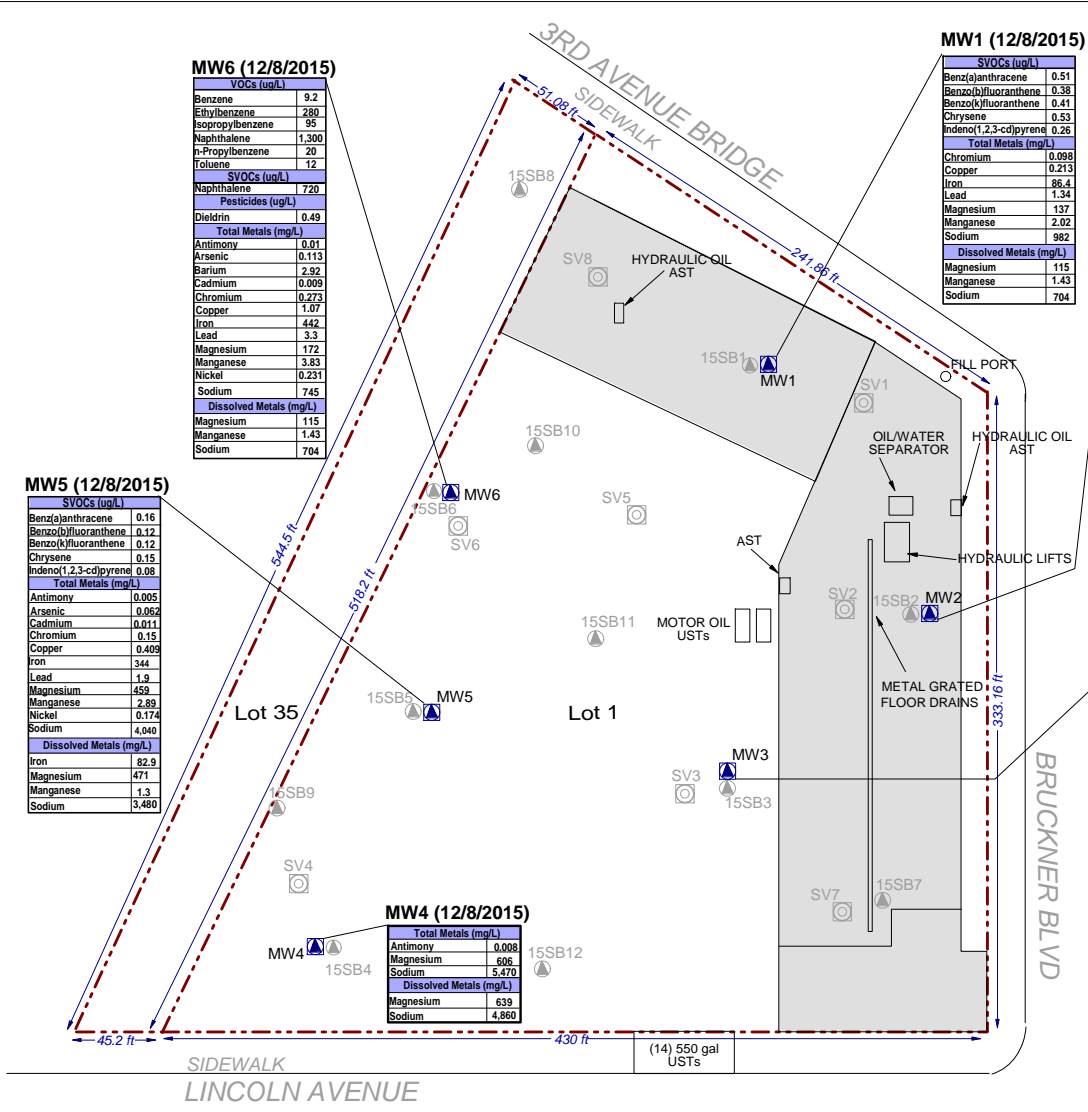
15B3 (12-14') 12/4/2015	
Lead	96.9

15B7 (0-2') 12/7/2015	
Lead	92.2
Nickel	6.38
Zinc	147

- KEY:**
- Property Line
  - RI Soil Boring Location
  - Groundwater Sampling Location
  - Soil Boring Location
  - Soil Gas Sampling Location



<p><b>BCB</b> ENVIRONMENTAL BUSINESS CONSULTANTS</p> <p>Phone 631.504.6000 Fax 631.924.2870</p>	<p><b>Figure No.</b> <b>6</b></p>	<p>Site Name: <b>FORMER BRONX FREIGHT TERMINAL</b></p> <p>Site Address: <b>101 LINCOLN AVENUE, BRONX, NY</b></p> <p>Drawing Title: <b>SOIL EXCEEDENCES</b></p>
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**MW6 (12/8/2015)**

VOCs (ug/L)	
Benzene	9.2
Ethylbenzene	280
Isopropylbenzene	95
Naphthalene	1,300
n-Propylbenzene	20
Toluene	12
SVOCs (ug/L)	
Naphthalene	720
Pesticides (ug/L)	
Dieldrin	0.49
Total Metals (mg/L)	
Antimony	0.01
Arsenic	0.113
Barium	2.92
Cadmium	0.009
Chromium	0.273
Copper	1.07
Iron	442
Lead	3.3
Magnesium	172
Manganese	3.83
Nickel	0.231
Sodium	745
Dissolved Metals (mg/L)	
Magnesium	115
Manganese	1.43
Sodium	704

**MW1 (12/8/2015)**

SVOCs (ug/L)	
Benz(a)anthracene	0.51
Benzo(b)fluoranthene	0.38
Benzo(k)fluoranthene	0.41
Chrysene	0.53
Indeno(1,2,3-cd)pyrene	0.26
Total Metals (mg/L)	
Chromium	0.098
Copper	0.213
Iron	86.4
Lead	1.34
Magnesium	137
Manganese	2.02
Sodium	982
Dissolved Metals (mg/L)	
Magnesium	115
Manganese	1.43
Sodium	704

**MW5 (12/8/2015)**

SVOCs (ug/L)	
Benz(a)anthracene	0.16
Benzo(b)fluoranthene	0.12
Benzo(k)fluoranthene	0.12
Chrysene	0.15
Indeno(1,2,3-cd)pyrene	0.08
Total Metals (mg/L)	
Antimony	0.005
Arsenic	0.062
Cadmium	0.011
Chromium	0.15
Copper	0.409
Iron	344
Lead	1.9
Magnesium	459
Manganese	2.89
Nickel	0.174
Sodium	4,040
Dissolved Metals (mg/L)	
Iron	82.9
Magnesium	471
Manganese	1.3
Sodium	3,480

**MW2 (12/8/2015)**

SVOCs (ug/L)	
Benz(a)anthracene	0.66
Benzo(b)fluoranthene	0.46
Benzo(k)fluoranthene	0.48
Chrysene	0.63
Indeno(1,2,3-cd)pyrene	0.30
Total Metals (mg/L)	
Iron	11
Lead	0.041
Magnesium	61.7
Manganese	4.21
Sodium	343
Thallium	0.0098
Dissolved Metals (mg/L)	
Magnesium	61
Manganese	4.11
Sodium	295

**MW3 (12/8/2015)**

SVOCs (ug/L)	
Benz(a)anthracene	0.09
Benzo(b)fluoranthene	0.06
Benzo(k)fluoranthene	0.06
Chrysene	0.08
Indeno(1,2,3-cd)pyrene	0.04
Total Metals (mg/L)	
Antimony	0.004
Iron	24.6
Lead	0.398
Magnesium	434
Manganese	0.62
Sodium	4,720
Dissolved Metals (mg/L)	
Magnesium	445
Sodium	4,270

**MW4 (12/8/2015)**

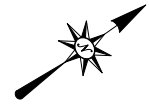
Total Metals (mg/L)	
Antimony	0.008
Magnesium	606
Sodium	5,470
Dissolved Metals (mg/L)	
Magnesium	639
Sodium	4,860

**KEY:**

- Property Line
- Bx RI Soil Boring Location
- MWx Groundwater Sampling Location
- 15SBx Soil Boring Location
- SVx Soil Gas Sampling Location

**SCALE:**

Scale: 1 inch = 100 feet



<p><b>BCB</b> ENVIRONMENTAL BUSINESS CONSULTANTS</p> <p>Phone 631.504.6000 Fax 631.924.2870</p>	<p><b>Figure No.</b> <b>7</b></p>	<p>Site Name: <b>FORMER BRONX FREIGHT TERMINAL</b></p> <p>Site Address: <b>101 LINCOLN AVENUE, BRONX, NY</b></p> <p>Drawing Title: <b>GROUNDWATER EXCEEDENCES</b></p>
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**SV4 (12/8/2015)**

1,1,1-Trichloroethane	6.71
1,2,4-Trimethylbenzene	34.1
1,3,5-Trimethylbenzene	6.68
4-Ethyltoluene	14.6
4-Isopropyltoluene	1.79
4-Methyl-2-pentanone	1.98
Acetone	570
Carbon Disulfide	2.73
Carbon Tetrachloride	0.29
Chloroform	1.93
Cyclohexane	42.7
Dichlorodifluoromethane	2.22
Ethanol	16.5
Ethylbenzene	2.1
Heptane	3.99
Hexane	54.6
Xylene (m&p)	8.16
Methyl Ethyl Ketone	13.6
Xylene (o)	4.11
Propylene	3.18
Tetrachloroethene	30.3
Toluene	11.6
Trichloroethene	1.39

**SV6 (12/8/2015)**

1,2,4-Trimethylbenzene	29.6
1,3,5-Trimethylbenzene	6.49
4-Ethyltoluene	13.4
4-Isopropyltoluene	1.34
4-Methyl-2-pentanone	2.87
Acetone	605
Benzene	2.45
Carbon Disulfide	10.7
Chloromethane	5.32
Cyclohexane	1.98
Dichlorodifluoromethane	2.2
Ethanol	17.9
Ethylbenzene	1.96
Heptane	2.43
Hexane	2.68
Xylene (m&p)	7.64
Methyl Ethyl Ketone	13.8
n-Butylbenzene	1.94
Xylene (o)	4.6
Tetrachloroethene	3.29
Toluene	10.1

**SV8 (12/8/2015)**

1,2,4-Trimethylbenzene	9.63
1,3,5-Trimethylbenzene	2.29
4-Ethyltoluene	5.21
4-Methyl-2-pentanone	1.3
Acetone	77.6
Benzene	1.5
Carbon Disulfide	2.34
Dichlorodifluoromethane	2.31
Ethanol	7.97
Ethylbenzene	1.45
Heptane	2.07
Hexane	1.94
Xylene (m&p)	5.03
Methyl Ethyl Ketone	3.21
Xylene (o)	2.38
Propylene	1.01
Tetrachloroethene	23.8
Toluene	8.4

**SV1 (12/8/2015)**

1,1,1-Trichloroethane	1.32
1,2,4-Trimethylbenzene	19.2
1,3,5-Trimethylbenzene	4.61
4-Ethyltoluene	11.1
4-Isopropyltoluene	1.15
4-Methyl-2-pentanone	2.22
Acetone	91.2
Benzene	1.48
Carbon Disulfide	3.42
Chloroform	3.64
Dichlorodifluoromethane	2.61
Ethanol	7.14
Ethylbenzene	3.58
Heptane	1.15
Xylene (m&p)	14.5
Methyl Ethyl Ketone	13.8
Xylene (o)	5.73
Tetrachloroethene	161
Toluene	16.4
Trichloroethene	0.53

**SV2 (12/8/2015)**

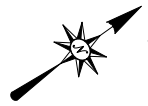
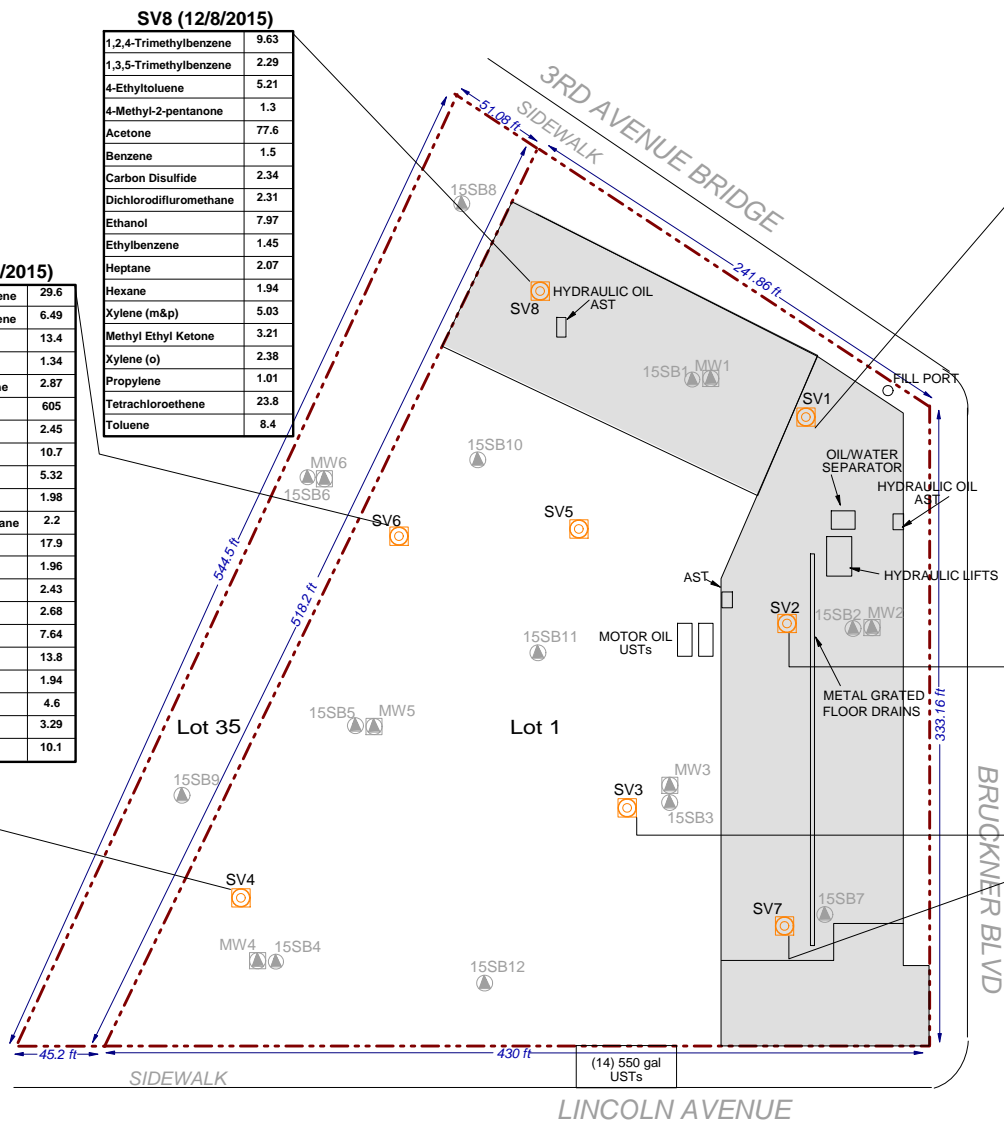
1,2,4-Trimethylbenzene	11.3
1,3,5-Trimethylbenzene	2.66
4-Ethyltoluene	6.24
Acetone	75.7
Benzene	177
Carbon Disulfide	13.9
Cyclohexane	77.1
Dichlorodifluoromethane	2.2
Ethanol	10.1
Ethylbenzene	1.51
Heptane	10.6
Hexane	25.5
Xylene (m&p)	5.81
Methyl Ethyl Ketone	8.84
Xylene (o)	2.6
Propylene	246
Tetrachloroethene	1.78
Toluene	7.83
Trichloroethene	1.06

**SV3 (12/8/2015)**

1,2,4-Trimethylbenzene	30.1
1,3,5-Trimethylbenzene	6.44
4-Ethyltoluene	14.3
4-Isopropyltoluene	1.48
4-Methyl-2-pentanone	1.65
Acetone	197
Benzene	2.13
Carbon Disulfide	15.8
Cyclohexane	4.99
Dichlorodifluoromethane	2.24
Ethanol	11.1
Ethylbenzene	2.04
Heptane	2.84
Hexane	12.8
Isopropylalcohol	7.39
Xylene (m&p)	8.46
Methyl Ethyl Ketone	7.81
Xylene (o)	4.43
Propylene	6.04
Tetrachloroethene	1.84
Toluene	8.96

**SV7 (12/8/2015)**

1,2,4-Trimethylbenzene	3.8
1,3,5-Trimethylbenzene	1.32
4-Ethyltoluene	2.91
Acetone	31.1
Benzene	4.25
Carbon Disulfide	12.3
Cyclohexane	8.88
Dichlorodifluoromethane	2.26
Ethanol	7.31
Ethylbenzene	2.68
Heptane	87.2
Hexane	188
Xylene (m&p)	8.81
Methylene Chloride	1.44
Xylene (o)	2.75
Tetrachloroethene	0.94
Toluene	18.4



**KEY:**

- Property Line
- Bx RI Soil Boring Location
- MWx Groundwater Sampling Location
- 15SBx Soil Boring Location
- SVx Soil Gas Sampling Location

**SCALE:**

Scale: 1 inch = 100 feet

**BC**  
ENVIRONMENTAL BUSINESS CONSULTANTS

Phone 631.504.6000  
Fax 631.924.2870

**Figure No. 8**

Site Name: **FORMER BRONX FREIGHT TERMINAL**

Site Address: **101 LINCOLN AVENUE, BRONX, NY**

Drawing Title: **SOIL GAS DETECTIONS**



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**APPENDIX – A**  
***Soil Boring Logs***







# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

## 15B4 Boring Log

Location: Performed on S corner of Site		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: NYD1503	Address: 101 Lincoln Ave, Bronx, NY	Date	DTW
		Groundwater depth	
Drilling Company: C <sup>2</sup> Environmental	Method: Geoprobe	6'	
Date Started: 12/4/2015	Date Completed: 12/4/2015	Well Specifications	
Completion Depth: 15 feet	Geologist Kevin Waters	None	

15B4 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	19		0.0	Black coarse fill gravel w/ brick and concrete
	5				no odor <i>*Retained soil sample 15B4(0-2)</i>
	to	12		0.0	brown coarse-fine sand and rock
	10				No odor
	to	10		0.0	grey coarse -fine sand and rock
	15				<i>*Retained soil sample 15B4(12-14)</i>





# Geologic Boring Log Details



## 15B7 Boring Log

Location: Performed inside the large building on the E side.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: NYD1503	Address: 101 Lincoln Ave, Bronx, NY	Date	DTW
		Groundwater depth  7'	
Drilling Company: C <sup>2</sup> Environmental	Method: Geoprobe	Well Specifications  None	
Date Started: 12/7/2015	Date Completed: 12/7/2015		
Completion Depth: 15 feet	Geologist Greg Swirson		

15B7 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION	
		Reco- very (in.)	Blow per 6 in.	PID (ppm)		
	0					
	to	20		0.0	3"- Concrete 9"- Brown Silt 8"- Black coal	
	5				<i>*Retained soil sample 15B7(0-2)</i>	
	to	27		0.0	5"- Dark Brown Shell/Sand mix 22"- Grey Clay  Sulfur odor	
	10					
	to	31		0.0	Brown clay-sand mix  Sulfur odor <i>*Retained soil sample 15B7(12-14)</i>	
	15					



# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

## 15B8 Boring Log

Location: Performed in NW corner of Site		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: NYD1503	Address: 101 Lincoln Ave, Bronx, NY	Date	DTW
Drilling Company: C <sup>2</sup> Environmental		Groundwater depth	
Method: Geoprobe		6'	
Date Started: 12/4/2015	Date Completed: 12/4/2015	Well Specifications	
Completion Depth: 15 feet	Geologist: Kevin Waters	None	

15B8 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				Black coarse fill w/ rock
	to	28		0.0	<i>*Retained soil sample 15B8(0-2)</i>
	5				rock and brick w/ brown med-fine sand - wet
	to	10		0.0	
	10				10"- dark grey coarse fill w/ metal 13"- dark grey sandy clay
	to	23		0.0	No odor <i>*Retained soil sample 15B8(12-14)</i>
	15				





# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

## 15B11 Boring Log

Location: Performed in center of Site		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: NYD1503	Address: 101 Lincoln Ave, Bronx, NY	Date	DTW
		Groundwater depth	Ground Elevation
Drilling Company: C <sup>2</sup> Environmental		Method: Geoprobe	
		6'	
Date Started: 12/4/2015	Date Completed: 12/4/2015		Well Specifications
Completion Depth: 15 feet		None	

15B11 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Reco- very (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	9		0.0	Black fill w/ coarse sandy gravel
	5				<i>*Retained soil sample 15B11(0-2)</i>
	to	29		100.0	21"- Black-Brown coarse Fill 8"- Black Clay w/ some sand  Slight petroleum odor
	10				
	to	22		0.5	14"- Black clay - Petroleum odor 8"- Grey Clay
	15				<i>*Retained soil sample 15B11(12-14)</i>

# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

## 15B12 Boring Log

Location: Performed E side of Site		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: NYD1503	Address: 101 Lincoln Ave, Bronx, NY	Date	DTW
Drilling Company: C <sup>2</sup> Environmental		Groundwater depth	
Method: Geoprobe		6'	
Date Started: 12/4/2015	Date Completed: 12/4/2015	Well Specifications	
Completion Depth: 15 feet	Geologist Kevin Waters	None	

15B12 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to 5	18		0.0	Brown coarse sand fill w/ Rock and asphalt  <i>*Retained soil sample 15B12(0-2)</i>
	to 10	13		0.5	4"- Fill 9"- wet grey clay w/ organic matter  Sulfur odor
	to 15	22		0.0	10"- grey sand and clay - rock @ 10" 12"- Brown grey fine sand/silt  No odor <i>*Retained soil sample 15B12(12-14)</i>

---

**APPENDIX – B**  
***Monitoring Well Completion Reports***

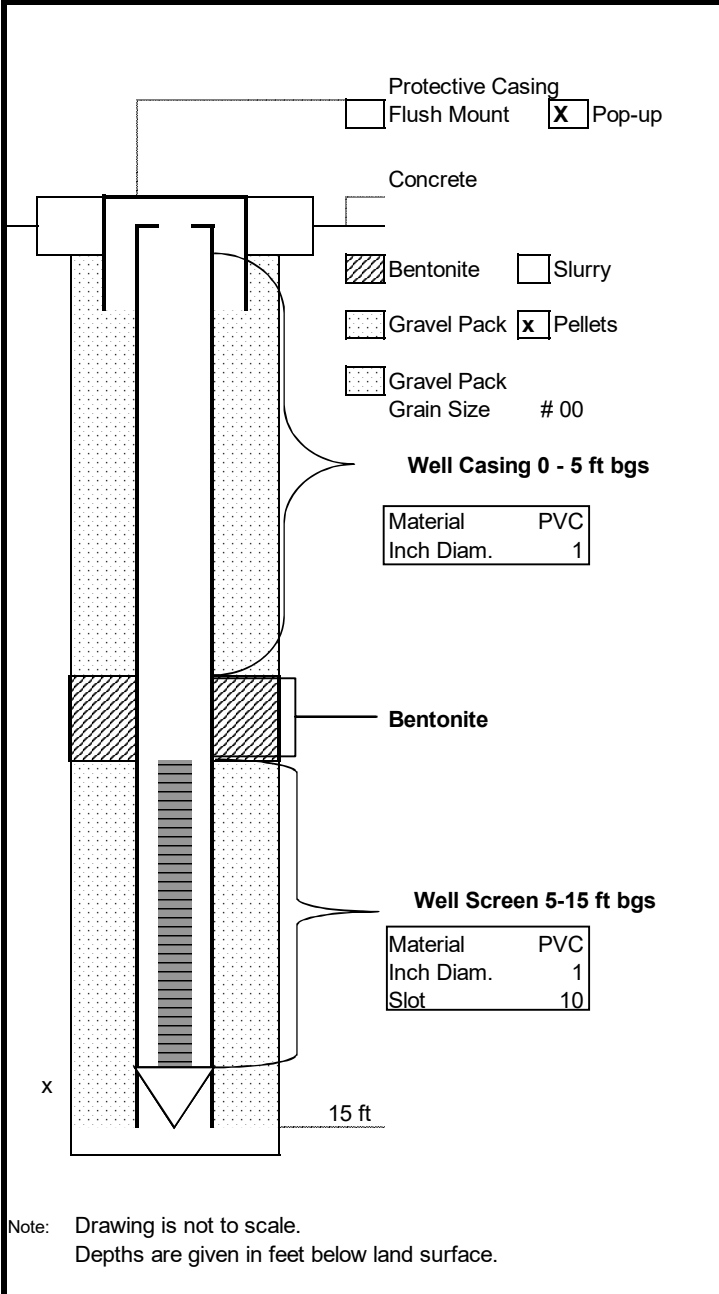


ENVIRONMENTAL BUSINESS CONSULTANTS

# GROUNDWATER MONITORING WELL

## CONSTRUCTION LOG

### MW-1



Monitoring Well No.: MW1

Project: 101 Lincoln Avenue, Bronx, NY

Depth to Groundwater: 7.31      Date: 12/10/2015

Installation Depth: 20 ft bg

Survey Point Elevation:

Installation Date: 12/8/2015

Drilling Contractor: C2

Installation Method: Hollow Geoprobe Rods

Water Removed During Development:

Hydrogeologist: Greg Swirson

Company Name: EBC

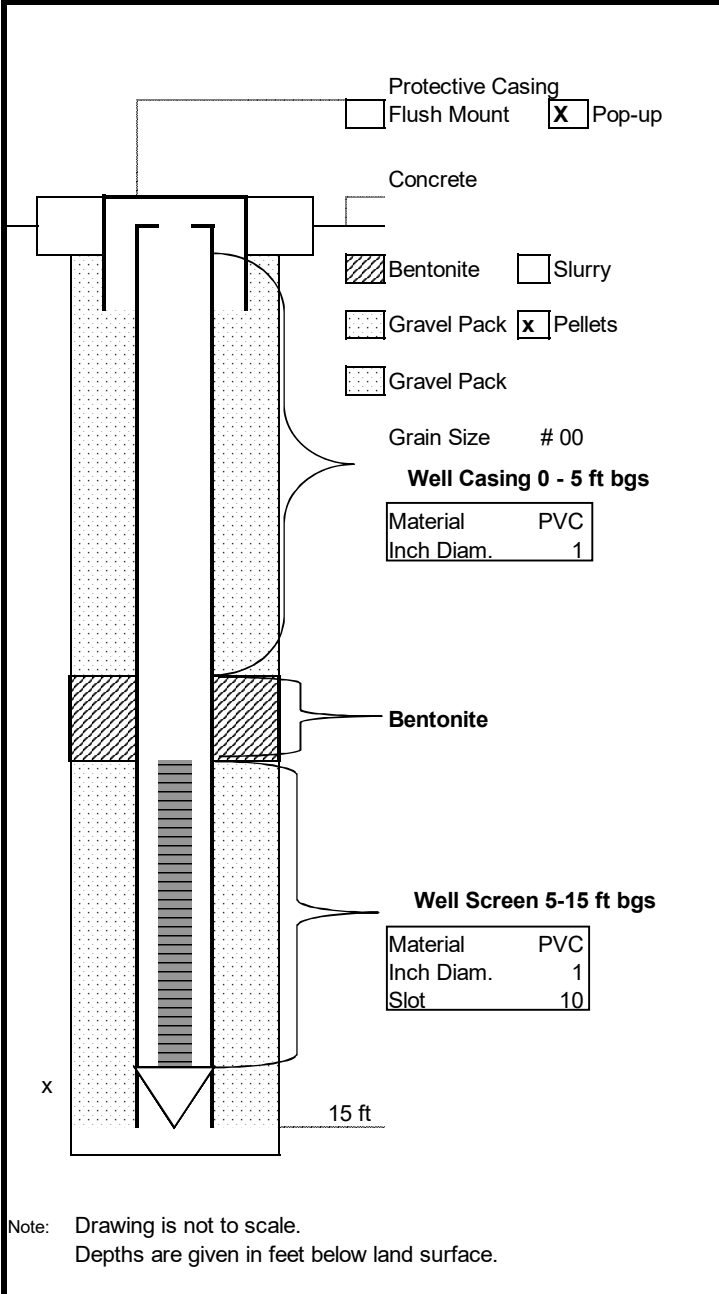


ENVIRONMENTAL BUSINESS CONSULTANTS

# GROUNDWATER MONITORING WELL

## CONSTRUCTION LOG

### MW-2



Monitoring Well No.: MW-2

Project: 101 Lincoln Avenue, Bronx, NY

Depth to Groundwater: 7.68      Date: 12/10/2015

Installation Depth: 15 ft bg

Survey Point Elevation:

Installation Date: 12/8/2015

Drilling Contractor: C2

Installation Method: Hollow Geoprobe Rods

Water Removed During Development:

Hydrogeologist: Greg Swirson

Company Name: EBC



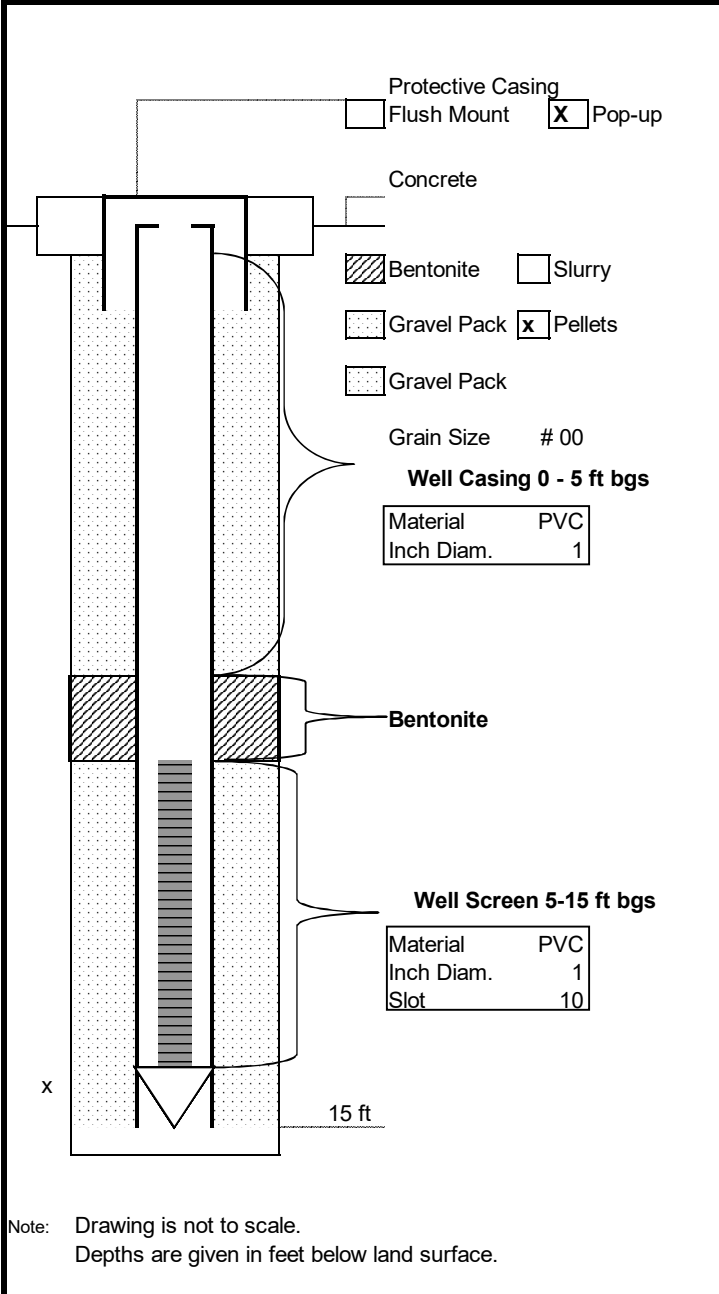


ENVIRONMENTAL BUSINESS CONSULTANTS

# GROUNDWATER MONITORING WELL

## CONSTRUCTION LOG

### MW-3



Monitoring Well No.: MW-3

Project: 101 Lincoln Avenue, Bronx, NY

Depth to Groundwater: 7.21      Date: 12/10/2015

Installation Depth: 15 ft bg

Survey Point Elevation:

Installation Date: 12/8/2015

Drilling Contractor: C2

Installation Method: Hollow Geoprobe Rods

Water Removed During Development:

Hydrogeologist: Greg Swirson

Company Name: EBC

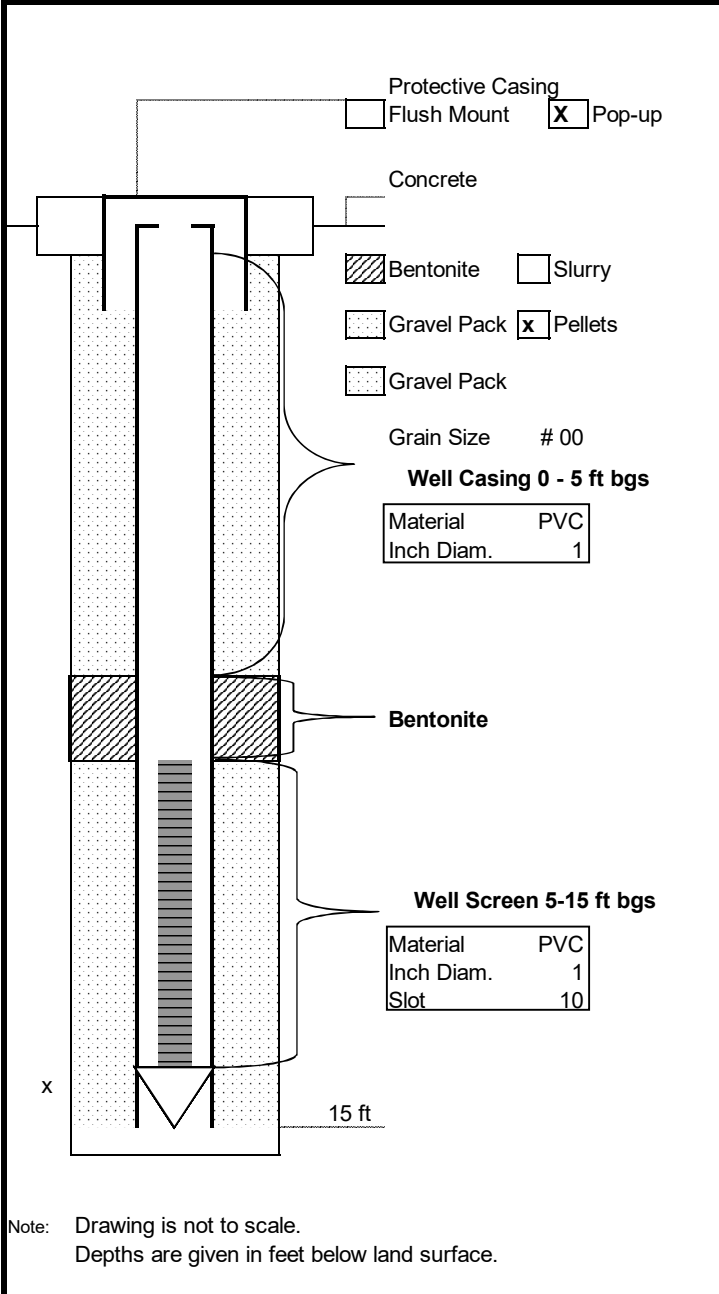


ENVIRONMENTAL BUSINESS CONSULTANTS

# GROUNDWATER MONITORING WELL

## CONSTRUCTION LOG

### MW-4



Note: Drawing is not to scale.  
Depths are given in feet below land surface.

Monitoring Well No.: MW-4

Project: 101 Lincoln Avenue, Bronx, NY

Depth to Groundwater: 7.98      Date: 12/10/2015

Installation Depth: 30 ft bg

Survey Point Elevation:

Installation Date: 12/8/2015

Drilling Contractor: C2

Installation Method: Hollow Geoprobe Rods

Water Removed During Development:

Hydrogeologist: Greg Swirson

Company Name: EBC

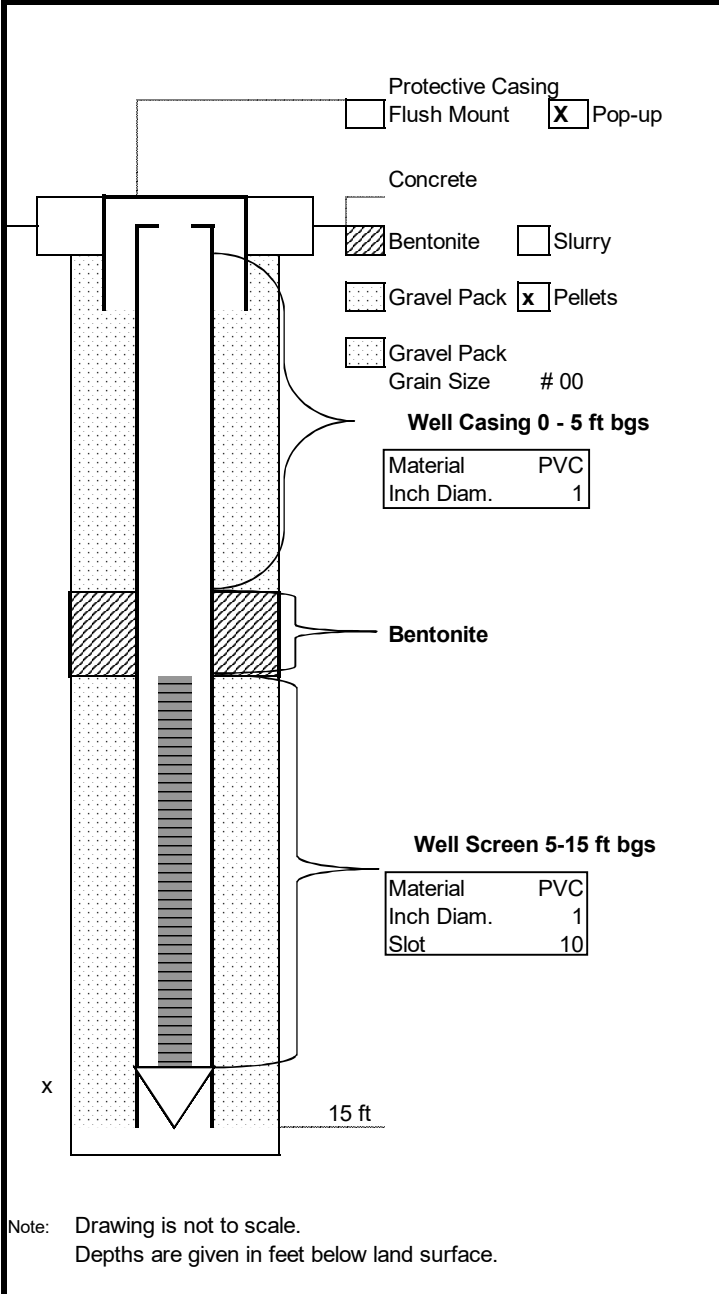


ENVIRONMENTAL BUSINESS CONSULTANTS

# GROUNDWATER MONITORING WELL

## CONSTRUCTION LOG

### MW-5



Monitoring Well No.: MW-5

Project: 101 Lincoln Avenue, Bronx, NY

Depth to Groundwater: 5.82      Date: 12/10/2015

Installation Depth: 15 ft bg

Survey Point Elevation:

Installation Date: 12/8/2015

Drilling Contractor: C2

Installation Method: Hollow Geoprobe Rods

Water Removed During Development:

Hydrogeologist: Greg Swirson

Company Name: EBC

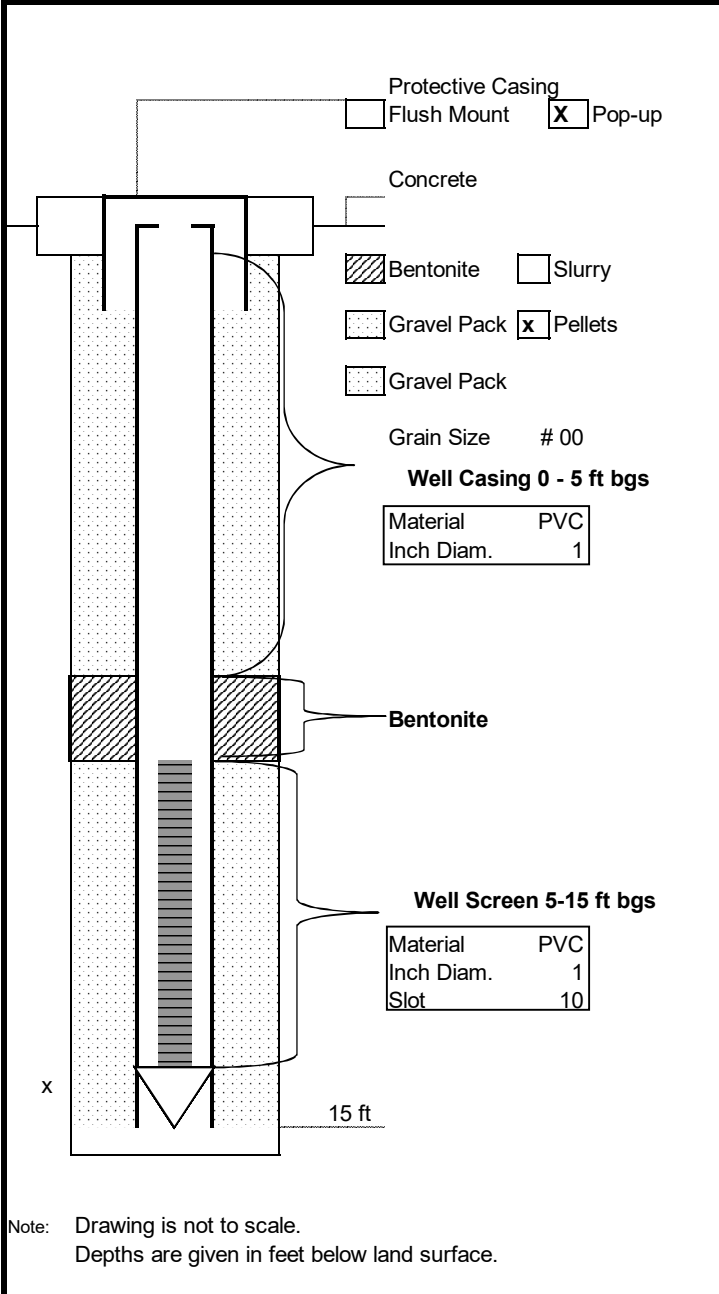


ENVIRONMENTAL BUSINESS CONSULTANTS

# GROUNDWATER MONITORING WELL

## CONSTRUCTION LOG

### MW-6



Monitoring Well No.: MW-6

Project: 101 Lincoln Avenue, Bronx, NY

Depth to Groundwater: 6.53      Date: 12/10/2015

Installation Depth: 15 ft bg

Survey Point Elevation:

Installation Date: 12/8/2015

Drilling Contractor: C2

Installation Method: Hollow Geoprobe Rods

Water Removed During Development:

Hydrogeologist: Greg Swirson

Company Name: EBC

---

**APPENDIX - C**  
***Groundwater Sampling Logs***

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.:     MW1    

Date: 12/8/2015

Well Depth (from TOC):     15    

Equipment: Peristaltic Pump

Static Water Level (from TOC):     7.31    

Field Personnel: Greg Swirson

Height of Water in Well:     7.69    

Gallons of Water per Well Volume:     0.3076    

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	7:15	400ml/min	0					
2.00	7:17	400ml/min	0.22					
4.00	7:21	400ml/min	0.44					
4.00	7:25	400ml/min	0.44					

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.: MW2

Date: 12/8/2015

Well Depth (from TOC): 15

Equipment: Peristaltic Pump

Static Water Level (from TOC): 7.68

Field Personnel: Greg Swirson

Height of Water in Well: 7.32

Gallons of Water per Well Volume: 0.2928

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	7:40	400ml/min	0					
2.00	7:42	400ml/min	0.22					
4.00	7:46	400ml/min	0.44					

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.:     MW3    

Date: 12/8/2015

Well Depth (from TOC):     15    

Equipment: Peristaltic Pump

Static Water Level (from TOC):     7.21    

Field Personnel: Greg Swirson

Height of Water in Well:     7.79    

Gallons of Water per Well Volume:     0.3116    

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	8:00	400ml/min	0					
2.00	8:02	400ml/min	0.22					
4.00	8:06	400ml/min	0.44					

Note 400 ml = 0.11 gallons



## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.:     MW4    

Date: 12/8/2015

Well Depth (from TOC):     15    

Equipment: Peristaltic Pump

Static Water Level (from TOC):     7.98    

Field Personnel: Greg Swirson

Height of Water in Well:     7.02    

Gallons of Water per Well Volume:     0.2808    

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	8:30	400ml/min	0					
2.00	8:32	400ml/min	0.22					
4.00	8:36	400ml/min	0.44					
4.00	8:40	400ml/min	0.44					

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.:     MW5    

Date: 12/8/2015

Well Depth (from TOC):     15    

Equipment: Peristaltic Pump

Static Water Level (from TOC):     5.82    

Field Personnel: Greg Swirson

Height of Water in Well:     9.18    

Gallons of Water per Well Volume:     0.3672    

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	9:15	400ml/min	0					
2.00	9:17	400ml/min	0.22					
4.00	9:21	400ml/min	0.44					
4.00	9:25	400ml/min	0.44					

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.: MW6

Date: 12/8/2015

Well Depth (from TOC): 15

Equipment: Peristaltic Pump

Static Water Level (from TOC): 6.53

Field Personnel: Greg Swirson

Height of Water in Well: 8.47

Gallons of Water per Well Volume: 0.3388

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	10:00	400ml/min	0					
2.00	10:02	400ml/min	0.22					
4.00	10:06	400ml/min	0.44					
4.00	10:10	400ml/min	0.44					

Note 400 ml = 0.11 gallons

---

**APPENDIX - D**  
***Soil Vapor Sampling Logs***



587 East Middle Turnpike, P.O. Box 370, Meriden, CT 06460  
 Telephone: 860-663-1102 • Fax: 860-665-0823

**CHAIN OF CUSTODY RECORD**

**AIR ANALYSES**

800-827-5426

email: greg@phoenixlabs.com

P.O. # \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Data Delivery:  Fax #: \_\_\_\_\_

Email: 2/10

Phone #: \_\_\_\_\_

Report to: Kevin Waters  
 Customer: EBC  
 Address: 1908 Middle Country Rd  
Bridge 11961

Invoice to: EBC  
 Project Name: 101 Lincoln Ave, Bronx NY  
 Requested Deliverable: RCP  ASP CAT B   
 MQP  NJ Deliverables   
 State where samples collected: NY

Sampled by: Greg Swirson

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										MATRIX		ANALYSES		
		Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	SO <sub>2</sub> Gas	Grab (G) Composite (C)	TO-14	TO-15
		13614	6.0	-30		501041.7										
34750	SV2	13867	6.0	-30	-1	4959				917	1137	1219	-30	-5	X	X
34751	SV1	488	6.0	-30	-3	4979				915	105	1218	-30	-5	X	X
		480	6.0	-30		4995										
34752	SV4	9767	6.0	-30	-2	5946				930	1144	1218	-30	-3	X	X
34753	SV3	12868	6.0	-30	-3	3409				948	1200	1218	-30	-5	X	X
34754	SV7	222	6.0	-30	-1	5709				920	1170	1218	-29	-1	X	X
34755	SV5	12806	6.0	-30	-30	5048				945	215	1218	-30	-30	X	X
34756	SV8	13651	6.0	-30	-3	5658				939	1155	1218	-27	-2	X	X
34757	SV6	12804	6.0	-30	-1	5348				942	1156	1219	-27	-4	X	X

Relinquished by: [Signature] Date: 12-8-15  
 Accepted by: [Signature] Date: 12-8-15  
 Data Format:  Excel  PDF   
 Equis  Other:   
 GISKey

Requested Criteria: Coliforms  
 Quote Number: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 \* SV5 did not run

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

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**APPENDIX - E**  
***Laboratory Reports (On Disk)***



Friday, February 05, 2016

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 101 LINCOLN AVE., BRONX  
Sample ID#s: BK34071 - BK34078

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



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**NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE**

**Client: Environmental Business Consultants**  
**Project: 101 LINCOLN AVE., BRONX**  
**Laboratory Project: GBK34071**





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# NY Analytical Services Protocol Format

February 05, 2016

SDG I.D.: GBK34071

Environmental Business Consultants 101 LINCOLN AVE., BRONX

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## Methodology Summary

### **Volatiles**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update V, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

### **Accelerated Solvent Extraction (ASE)**

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update III, Method 3545A.

### **Mercury Prep**

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 7471B.

### **Metals**

ICP :

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010C.

Mercury:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471

### **Pesticides:**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8081B.

### **Polychlorinated Biphenyls (PCBs):**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8082A.

### **Semivolatile Organic Compounds**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

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Environmental Business Consultants 101 LINCOLN AVE., BRONX

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## Sample Id Cross Reference

Client Id	Lab Id	Matrix
15B1 12-14	BK34071	SOIL
15B2 12-14	BK34072	SOIL
15B6 12-14	BK34073	SOIL
15B7 12-14	BK34074	SOIL
15B9 12-14	BK34075	SOIL
15B1 0-2	BK34076	SOIL
15B2 0-2	BK34077	SOIL
15B7 0-2	BK34078	SOIL

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## NY Analytical Services Protocol Format

February 05, 2016

SDG I.D.: GBK34071

Environmental Business Consultants 101 LINCOLN AVE., BRONX

### Laboratory Chronicle

The samples in this delivery group were received at 4°C.

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BK34071	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34071	Aluminum	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Antimony	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Copper	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Iron	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Manganese	12/07/15	12/08/15	12/10/15	EK	Y
BK34071	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34071	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Pesticides - Soil	12/07/15	12/08/15	12/11/15	CE	Y
BK34071	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y
BK34071	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Semivolatiles	12/07/15	12/08/15	12/08/15	DD	Y
BK34071	Silver	12/07/15	12/08/15	12/14/15	LK	Y
BK34071	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34071	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34071	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34071	Zinc	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34072	Aluminum	12/07/15	12/08/15	12/10/15	EK	Y
BK34072	Antimony	12/07/15	12/08/15	12/10/15	LK	Y



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BK34072	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Copper	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Iron	12/07/15	12/08/15	12/10/15	EK	Y
BK34072	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Manganese	12/07/15	12/08/15	12/10/15	EK	Y
BK34072	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34072	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Pesticides - Soil	12/07/15	12/08/15	12/11/15	CE	Y
BK34072	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y
BK34072	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Semivolatiles	12/07/15	12/08/15	12/09/15	DD	Y
BK34072	Silver	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34072	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34072	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34072	Zinc	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34073	Aluminum	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Antimony	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Copper	12/07/15	12/08/15	12/10/15	LK	Y



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BK34073	Iron	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Manganese	12/07/15	12/08/15	12/10/15	EK	Y
BK34073	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34073	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Pesticides - Soil	12/07/15	12/08/15	12/11/15	CE	Y
BK34073	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y
BK34073	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Semivolatiles	12/07/15	12/08/15	12/09/15	DD	Y
BK34073	Silver	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34073	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34073	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34073	Zinc	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34074	Aluminum	12/07/15	12/08/15	12/10/15	EK	Y
BK34074	Antimony	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Copper	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Iron	12/07/15	12/08/15	12/10/15	EK	Y
BK34074	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Manganese	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34074	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Pesticides - Soil	12/07/15	12/08/15	12/09/15	CE	Y
BK34074	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y



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BK34074	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Semivolatiles	12/07/15	12/08/15	12/09/15	DD	Y
BK34074	Silver	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34074	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34074	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34074	Zinc	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34075	Aluminum	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Antimony	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Copper	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Iron	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Manganese	12/07/15	12/08/15	12/10/15	EK	Y
BK34075	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34075	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Pesticides - Soil	12/07/15	12/08/15	12/11/15	CE	Y
BK34075	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y
BK34075	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Semivolatiles	12/07/15	12/08/15	12/09/15	DD	Y
BK34075	Silver	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34075	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y



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BK34075	Volatiles	12/07/15	12/10/15	12/10/15	HM	Y
BK34075	Zinc	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34076	Aluminum	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Antimony	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Copper	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Iron	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Manganese	12/07/15	12/08/15	12/10/15	EK	Y
BK34076	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34076	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Pesticides - Soil	12/07/15	12/08/15	12/09/15	CE	Y
BK34076	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y
BK34076	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Semivolatiles	12/07/15	12/08/15	12/09/15	DD	Y
BK34076	Silver	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34076	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34076	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34076	Zinc	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34077	Aluminum	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Antimony	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y



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BK34077	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Copper	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Iron	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Manganese	12/07/15	12/08/15	12/10/15	EK	Y
BK34077	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34077	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Pesticides - Soil	12/07/15	12/08/15	12/09/15	CE	Y
BK34077	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y
BK34077	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Semivolatiles	12/07/15	12/08/15	12/09/15	DD	Y
BK34077	Silver	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34077	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34077	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34077	Zinc	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	1,4-dioxane	12/07/15	12/09/15	12/09/15	HM	Y
BK34078	Aluminum	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Antimony	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Arsenic	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Barium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Beryllium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Cadmium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Calcium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Chromium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Cobalt	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Copper	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Iron	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Lead	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Magnesium	12/07/15	12/08/15	12/10/15	LK	Y





**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823



## NY Analytical Services Protocol Format

February 05, 2016

SDG I.D.: GBK34071

**Environmental Business Consultants 101 LINCOLN AVE., BRONX**

BK34078	Manganese	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Mercury	12/07/15	12/09/15	12/09/15	RS	Y
BK34078	Nickel	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Pesticides - Soil	12/07/15	12/08/15	12/09/15	CE	Y
BK34078	Polychlorinated Biphenyls	12/07/15	12/08/15	12/09/15	AW	Y
BK34078	Potassium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Selenium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Semivolatiles	12/07/15	12/08/15	12/09/15	DD	Y
BK34078	Silver	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Sodium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Thallium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Vanadium	12/07/15	12/08/15	12/10/15	LK	Y
BK34078	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34078	Volatiles	12/07/15	12/09/15	12/09/15	HM	Y
BK34078	Zinc	12/07/15	12/08/15	12/10/15	LK	Y



Environmental Laboratories, Inc.  
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Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

February 05, 2016

SDG I.D.: GBK34071

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Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

BK34076 - Client high level could not be analyzed. Methanol had leaked from vial Sample weight and dilution could not be determined. Phoenix prepared sample per method 5035.



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

11:11  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34071

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B1 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	0.40	0.39	0.39	mg/Kg	1	12/14/15	LK	SW6010C
Aluminum	7940	39	7.8	mg/Kg	10	12/10/15	LK	SW6010C
Arsenic	3.1	0.8	0.78	mg/Kg	1	12/10/15	LK	SW6010C
Barium	55.2	0.8	0.39	mg/Kg	1	12/10/15	LK	SW6010C
Beryllium	0.42	0.31	0.16	mg/Kg	1	12/10/15	LK	SW6010C
Calcium	23300	39	36	mg/Kg	10	12/10/15	LK	SW6010C
Cadmium	< 0.39	0.39	0.16	mg/Kg	1	12/10/15	LK	SW6010C
Cobalt	7.25	0.39	0.39	mg/Kg	1	12/10/15	LK	SW6010C
Chromium	15.0	0.39	0.39	mg/Kg	1	12/10/15	LK	SW6010C
Copper	18.2	0.39	0.39	mg/kg	1	12/10/15	LK	SW6010C
Iron	13000	39	39	mg/Kg	10	12/10/15	LK	SW6010C
Mercury	0.06	0.03	0.02	mg/Kg	1	12/09/15	RS	SW7471B
Potassium	1780	N 8	3.0	mg/Kg	1	12/10/15	LK	SW6010C
Magnesium	11200	39	39	mg/Kg	10	12/10/15	LK	SW6010C
Manganese	215	N 3.9	3.9	mg/Kg	10	12/10/15	EK	SW6010C
Sodium	709	N 8	3.4	mg/Kg	1	12/10/15	LK	SW6010C
Nickel	13.4	0.39	0.39	mg/Kg	1	12/10/15	LK	SW6010C
Lead	98.2	0.8	0.39	mg/Kg	1	12/10/15	LK	SW6010C
Antimony	< 2.0	2.0	2.0	mg/Kg	1	12/10/15	LK	SW6010C
Selenium	< 1.6	1.6	1.3	mg/Kg	1	12/10/15	LK	SW6010C
Thallium	< 1.6	1.6	1.6	mg/Kg	1	12/10/15	LK	SW6010C
Vanadium	20.5	0.4	0.39	mg/Kg	1	12/10/15	LK	SW6010C
Zinc	46.1	0.8	0.39	mg/Kg	1	12/10/15	LK	SW6010C
Percent Solid	81			%		12/08/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/09/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	41	41	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	144			%	2	12/09/15	AW	30 - 150 %
% TCMX	94			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.5	2.5	ug/Kg	2	12/11/15	CE	SW8081B
4,4' -DDE	ND	2.5	2.5	ug/Kg	2	12/11/15	CE	SW8081B
4,4' -DDT	ND	2.5	2.5	ug/Kg	2	12/11/15	CE	SW8081B
a-BHC	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
a-Chlordane	ND	4.1	4.1	ug/Kg	2	12/11/15	CE	SW8081B
Aldrin	ND	4.1	4.1	ug/Kg	2	12/11/15	CE	SW8081B
b-BHC	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Chlordane	ND	41	41	ug/Kg	2	12/11/15	CE	SW8081B
d-BHC	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Dieldrin	ND	4.1	4.1	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan I	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan II	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan sulfate	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Endrin	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Endrin aldehyde	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Endrin ketone	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	12/11/15	CE	SW8081B
g-Chlordane	ND	4.1	4.1	ug/Kg	2	12/11/15	CE	SW8081B
Heptachlor	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	8.2	8.2	ug/Kg	2	12/11/15	CE	SW8081B
Methoxychlor	ND	41	41	ug/Kg	2	12/11/15	CE	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	12/11/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	73			%	2	12/11/15	CE	30 - 150 %
% TCMX	89			%	2	12/11/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,1,1-Trichloroethane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2-Trichloroethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloroethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloropropene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichloropropane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromoethane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloroethane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloropropane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichloropropane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
1,4-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
2,2-Dichloropropane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
2-Chlorotoluene	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
2-Hexanone	ND	19	3.9	ug/Kg	1	12/09/15	HM	SW8260C
2-Isopropyltoluene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
4-Chlorotoluene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
4-Methyl-2-pentanone	ND	19	3.9	ug/Kg	1	12/09/15	HM	SW8260C
Acetone	28	JS 39	3.9	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	7.8	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Benzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Bromobenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Bromochloromethane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Bromodichloromethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Bromoform	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Bromomethane	ND	3.9	1.6	ug/Kg	1	12/09/15	HM	SW8260C
Carbon Disulfide	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Carbon tetrachloride	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Chlorobenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Chloroethane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Chloroform	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Chloromethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Dibromochloromethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Dibromomethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Dichlorodifluoromethane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Ethylbenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Hexachlorobutadiene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Isopropylbenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
m&p-Xylene	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Methyl Ethyl Ketone	6.0	J 23	3.9	ug/Kg	1	12/09/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.8	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Methylene chloride	ND	3.9	3.9	ug/Kg	1	12/09/15	HM	SW8260C
Naphthalene	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
n-Butylbenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	3.9	0.70	ug/Kg	1	12/09/15	HM	SW8260C
o-Xylene	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
p-Isopropyltoluene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
sec-Butylbenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Styrene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
tert-Butylbenzene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Tetrachloroethene	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.8	1.9	ug/Kg	1	12/09/15	HM	SW8260C
Toluene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.8	1.9	ug/Kg	1	12/09/15	HM	SW8260C
Trichloroethene	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorofluoromethane	ND	3.9	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorotrifluoroethane	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Vinyl chloride	ND	3.9	0.39	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	104			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	95			%	1	12/09/15	HM	70 - 130 %
% Dibromofluoromethane	101			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/09/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	78	31	ug/kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	104			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	95			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/09/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	16	0.78	ug/Kg	1	12/09/15	HM	SW8260C
Acrolein	ND	16	1.9	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	16	0.39	ug/Kg	1	12/09/15	HM	SW8260C
Tert-butyl alcohol	ND	78	16	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	810	280	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	280	190	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	810	410	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	280	260	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	810	190	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	810	810	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	440	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	330	190	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	810	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	410	180	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	330	330	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	220	J 280	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	810	240	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	240	J 280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	170	J 280	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	190	J 280	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	2000	810	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	2000	310	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	270	J 280	140	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	580	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	540	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	480	280	140	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	66			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	59			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	50			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	50			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	55			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	67			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

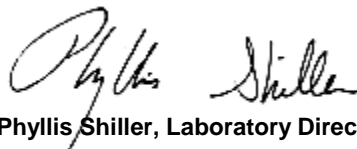
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

11:30  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34072

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B2 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Aluminum	10200	35	7.1	mg/Kg	10	12/10/15	EK	SW6010C
Arsenic	2.3	0.7	0.71	mg/Kg	1	12/10/15	LK	SW6010C
Barium	28.4	0.7	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Beryllium	0.30	0.28	0.14	mg/Kg	1	12/10/15	LK	SW6010C
Calcium	1530	3.5	3.3	mg/Kg	1	12/10/15	LK	SW6010C
Cadmium	< 0.35	0.35	0.14	mg/Kg	1	12/10/15	LK	SW6010C
Cobalt	10.1	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Chromium	23.1	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Copper	10.4	0.35	0.35	mg/kg	1	12/10/15	LK	SW6010C
Iron	15500	35	35	mg/Kg	10	12/10/15	EK	SW6010C
Mercury	< 0.03	0.03	0.02	mg/Kg	1	12/09/15	RS	SW7471B
Potassium	2170	N 7	2.8	mg/Kg	1	12/10/15	LK	SW6010C
Magnesium	4470	3.5	3.5	mg/Kg	1	12/10/15	LK	SW6010C
Manganese	219	N 3.5	3.5	mg/Kg	10	12/10/15	EK	SW6010C
Sodium	416	N 7	3.0	mg/Kg	1	12/10/15	LK	SW6010C
Nickel	14.8	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Lead	4.4	0.7	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Antimony	< 1.8	1.8	1.8	mg/Kg	1	12/10/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/10/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/10/15	LK	SW6010C
Vanadium	33.3	0.4	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Zinc	32.7	0.7	0.35	mg/Kg	1	12/10/15	LK	SW6010C
Percent Solid	83			%		12/08/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/09/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	111			%	2	12/09/15	AW	30 - 150 %
% TCMX	88			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.4	2.4	ug/Kg	2	12/11/15	CE	SW8081B
4,4' -DDE	ND	2.4	2.4	ug/Kg	2	12/11/15	CE	SW8081B
4,4' -DDT	ND	2.4	2.4	ug/Kg	2	12/11/15	CE	SW8081B
a-BHC	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
a-Chlordane	ND	3.9	3.9	ug/Kg	2	12/11/15	CE	SW8081B
Aldrin	ND	3.9	3.9	ug/Kg	2	12/11/15	CE	SW8081B
b-BHC	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Chlordane	ND	39	39	ug/Kg	2	12/11/15	CE	SW8081B
d-BHC	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Dieldrin	ND	3.9	3.9	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan I	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan II	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan sulfate	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Endrin	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Endrin aldehyde	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Endrin ketone	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	12/11/15	CE	SW8081B
g-Chlordane	ND	3.9	3.9	ug/Kg	2	12/11/15	CE	SW8081B
Heptachlor	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	7.8	7.8	ug/Kg	2	12/11/15	CE	SW8081B
Methoxychlor	ND	39	39	ug/Kg	2	12/11/15	CE	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	12/11/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	80			%	2	12/11/15	CE	30 - 150 %
% TCMX	105			%	2	12/11/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,1,1-Trichloroethane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2-Trichloroethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloroethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloropropene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichloropropane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromoethane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloroethane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloropropane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichloropropane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
1,4-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
2,2-Dichloropropane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
2-Chlorotoluene	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
2-Hexanone	ND	18	3.6	ug/Kg	1	12/09/15	HM	SW8260C
2-Isopropyltoluene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
4-Chlorotoluene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
4-Methyl-2-pentanone	ND	18	3.6	ug/Kg	1	12/09/15	HM	SW8260C
Acetone	31	JS 36	3.6	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	7.2	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Benzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Bromobenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Bromochloromethane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Bromodichloromethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Bromoform	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Bromomethane	ND	3.6	1.4	ug/Kg	1	12/09/15	HM	SW8260C
Carbon Disulfide	7.5	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Carbon tetrachloride	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Chlorobenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Chloroethane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Chloroform	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Chloromethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Dibromochloromethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Dibromomethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Dichlorodifluoromethane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Ethylbenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Hexachlorobutadiene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Isopropylbenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
m&p-Xylene	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Methyl Ethyl Ketone	5.0	J 22	3.6	ug/Kg	1	12/09/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.2	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Methylene chloride	ND	3.6	3.6	ug/Kg	1	12/09/15	HM	SW8260C
Naphthalene	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
n-Butylbenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	3.6	0.65	ug/Kg	1	12/09/15	HM	SW8260C
o-Xylene	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
p-Isopropyltoluene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
sec-Butylbenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Styrene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
tert-Butylbenzene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Tetrachloroethene	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.2	1.8	ug/Kg	1	12/09/15	HM	SW8260C
Toluene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.2	1.8	ug/Kg	1	12/09/15	HM	SW8260C
Trichloroethene	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorofluoromethane	ND	3.6	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorotrifluoroethane	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Vinyl chloride	ND	3.6	0.36	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	95			%	1	12/09/15	HM	70 - 130 %
% Dibromofluoromethane	100			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/09/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	72	29	ug/kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	95			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/09/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	14	0.72	ug/Kg	1	12/09/15	HM	SW8260C
Acrolein	ND	14	1.8	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	14	0.36	ug/Kg	1	12/09/15	HM	SW8260C
Tert-butyl alcohol	ND	72	14	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/09/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	97	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrophenol	ND	780	270	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylnaphthalene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitroaniline	ND	780	400	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitrophenol	ND	270	250	ug/Kg	1	12/09/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	780	190	ug/Kg	1	12/09/15	DD	SW8270D
3-Nitroaniline	ND	780	780	ug/Kg	1	12/09/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	420	ug/Kg	1	12/09/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	12/09/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitroaniline	ND	780	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitrophenol	ND	390	180	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Aniline	ND	310	310	ug/Kg	1	12/09/15	DD	SW8270D
Anthracene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzidine	ND	780	230	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(a)pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzoic acid	ND	2000	780	ug/Kg	1	12/09/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Carbazole	ND	2000	300	ug/Kg	1	12/09/15	DD	SW8270D
Chrysene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-octylphthalate	ND	270	100	ug/Kg	1	12/09/15	DD	SW8270D
Fluoranthene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Fluorene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Hexachloroethane	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Isophorone	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
Pentachloronitrobenzene	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
Pentachlorophenol	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Phenol	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Pyridine	ND	270	96	ug/Kg	1	12/09/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	51			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorobiphenyl	48			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorophenol	40			%	1	12/09/15	DD	30 - 130 %
% Nitrobenzene-d5	44			%	1	12/09/15	DD	30 - 130 %
% Phenol-d5	43			%	1	12/09/15	DD	30 - 130 %
% Terphenyl-d14	52			%	1	12/09/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

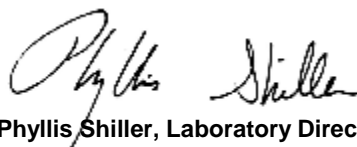
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

12:30  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34073

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B6 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.47	0.47	0.47	mg/Kg	1	12/10/15	LK	SW6010C
Aluminum	4940	47	9.4	mg/Kg	10	12/10/15	LK	SW6010C
Arsenic	26.8	0.9	0.94	mg/Kg	1	12/10/15	LK	SW6010C
Barium	221	0.9	0.47	mg/Kg	1	12/10/15	LK	SW6010C
Beryllium	0.20	B 0.38	0.19	mg/Kg	1	12/10/15	LK	SW6010C
Calcium	22000	47	43	mg/Kg	10	12/10/15	LK	SW6010C
Cadmium	1.99	0.47	0.19	mg/Kg	1	12/10/15	LK	SW6010C
Cobalt	15.0	0.47	0.47	mg/Kg	1	12/10/15	LK	SW6010C
Chromium	21.1	0.47	0.47	mg/Kg	1	12/10/15	LK	SW6010C
Copper	340	4.7	4.7	mg/kg	10	12/10/15	LK	SW6010C
Iron	103000	47	47	mg/Kg	10	12/10/15	LK	SW6010C
Mercury	1.50	0.04	0.02	mg/Kg	1	12/09/15	RS	SW7471B
Potassium	1040	N 9	3.7	mg/Kg	1	12/10/15	LK	SW6010C
Magnesium	3870	4.7	4.7	mg/Kg	1	12/10/15	LK	SW6010C
Manganese	329	N 4.7	4.7	mg/Kg	10	12/10/15	EK	SW6010C
Sodium	903	N 9	4.0	mg/Kg	1	12/10/15	LK	SW6010C
Nickel	40.5	0.47	0.47	mg/Kg	1	12/10/15	LK	SW6010C
Lead	609	9.4	4.7	mg/Kg	10	12/10/15	LK	SW6010C
Antimony	< 2.3	2.3	2.3	mg/Kg	1	12/10/15	LK	SW6010C
Selenium	< 1.9	1.9	1.6	mg/Kg	1	12/10/15	LK	SW6010C
Thallium	< 1.9	1.9	1.9	mg/Kg	1	12/10/15	LK	SW6010C
Vanadium	47.5	0.5	0.47	mg/Kg	1	12/10/15	LK	SW6010C
Zinc	413	9.4	4.7	mg/Kg	10	12/10/15	LK	SW6010C
Percent Solid	73			%		12/08/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/09/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	45	45	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	77			%	2	12/09/15	AW	30 - 150 %
% TCMX	80			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	40	40	ug/Kg	20	12/11/15	CE	SW8081B
4,4' -DDE	ND	27	27	ug/Kg	20	12/11/15	CE	SW8081B
4,4' -DDT	ND	27	27	ug/Kg	20	12/11/15	CE	SW8081B
a-BHC	ND	23	23	ug/Kg	20	12/11/15	CE	SW8081B
a-Chlordane	ND	65	65	ug/Kg	20	12/11/15	CE	SW8081B
Aldrin	ND	23	23	ug/Kg	20	12/11/15	CE	SW8081B
b-BHC	ND	65	65	ug/Kg	20	12/11/15	CE	SW8081B
Chlordane	ND	450	450	ug/Kg	20	12/11/15	CE	SW8081B
d-BHC	ND	45	45	ug/Kg	20	12/11/15	CE	SW8081B
Dieldrin	ND	220	220	ug/Kg	20	12/11/15	CE	SW8081B
Endosulfan I	ND	91	91	ug/Kg	20	12/11/15	CE	SW8081B
Endosulfan II	ND	91	91	ug/Kg	20	12/11/15	CE	SW8081B
Endosulfan sulfate	ND	91	91	ug/Kg	20	12/11/15	CE	SW8081B
Endrin	ND	55	55	ug/Kg	20	12/11/15	CE	SW8081B
Endrin aldehyde	ND	91	91	ug/Kg	20	12/11/15	CE	SW8081B
Endrin ketone	ND	91	91	ug/Kg	20	12/11/15	CE	SW8081B
g-BHC	ND	18	18	ug/Kg	20	12/11/15	CE	SW8081B
g-Chlordane	ND	45	45	ug/Kg	20	12/11/15	CE	SW8081B
Heptachlor	ND	45	45	ug/Kg	20	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	91	91	ug/Kg	20	12/11/15	CE	SW8081B
Methoxychlor	ND	450	450	ug/Kg	20	12/11/15	CE	SW8081B
Toxaphene	ND	1800	1800	ug/Kg	20	12/11/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	Diluted Out			%	20	12/11/15	CE	30 - 150 %
% TCMX	Diluted Out			%	20	12/11/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,1,1-Trichloroethane	ND	530	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,1,2,2-Tetrachloroethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,1,2-Trichloroethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,1-Dichloroethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,1-Dichloropropene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2,3-Trichlorobenzene	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2,3-Trichloropropane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2,4-Trichlorobenzene	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2,4-Trimethylbenzene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2-Dibromo-3-chloropropane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2-Dibromoethane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2-Dichlorobenzene	ND	1100	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2-Dichloroethane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,2-Dichloropropane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,3,5-Trimethylbenzene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,3-Dichlorobenzene	ND	1400	360	ug/Kg	1000	12/09/15	H/P	SW8260C
1,3-Dichloropropane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
1,4-Dichlorobenzene	ND	1400	360	ug/Kg	1000	12/09/15	H/P	SW8260C
2,2-Dichloropropane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
2-Chlorotoluene	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
2-Hexanone	ND	18000	3600	ug/Kg	1000	12/09/15	H/P	SW8260C
2-Isopropyltoluene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
4-Chlorotoluene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
4-Methyl-2-pentanone	ND	18000	3600	ug/Kg	1000	12/09/15	H/P	SW8260C
Acetone	ND	36000	3600	ug/Kg	1000	12/09/15	H/P	SW8260C
Acrylonitrile	ND	7100	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Benzene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Bromobenzene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Bromochloromethane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Bromodichloromethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Bromoform	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Bromomethane	ND	3600	1400	ug/Kg	1000	12/09/15	H/P	SW8260C
Carbon Disulfide	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Carbon tetrachloride	ND	710	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Chlorobenzene	ND	1100	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Chloroethane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Chloroform	ND	360	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Chloromethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
cis-1,2-Dichloroethene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
cis-1,3-Dichloropropene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Dibromochloromethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Dibromomethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Dichlorodifluoromethane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Ethylbenzene	31000	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Hexachlorobutadiene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Isopropylbenzene	5600	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
m&p-Xylene	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Methyl Ethyl Ketone	ND	21000	3600	ug/Kg	1000	12/09/15	H/P	SW8260C
Methyl t-butyl ether (MTBE)	ND	710	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Methylene chloride	ND	3600	3600	ug/Kg	1000	12/09/15	H/P	SW8260C
Naphthalene	260000	D 18000	3600	ug/Kg	5000	12/09/15	H/P	SW8260C
n-Butylbenzene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	3900	3600	640	ug/Kg	1000	12/09/15	H/P	SW8260C
o-Xylene	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
p-Isopropyltoluene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
sec-Butylbenzene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Styrene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
tert-Butylbenzene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Tetrachloroethene	ND	710	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Tetrahydrofuran (THF)	ND	7100	1800	ug/Kg	1000	12/09/15	H/P	SW8260C
Toluene	ND	680	360	ug/Kg	1000	12/09/15	H/P	SW8260C
trans-1,2-Dichloroethene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
trans-1,3-Dichloropropene	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
trans-1,4-dichloro-2-butene	ND	7100	1800	ug/Kg	1000	12/09/15	H/P	SW8260C
Trichloroethene	ND	450	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Trichlorofluoromethane	ND	3600	710	ug/Kg	1000	12/09/15	H/P	SW8260C
Trichlorotrifluoroethane	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
Vinyl chloride	ND	3600	360	ug/Kg	1000	12/09/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	103			%	1000	12/09/15	H/P	70 - 130 %
% Bromofluorobenzene	98			%	1000	12/09/15	H/P	70 - 130 %
% Dibromofluoromethane	98			%	1000	12/09/15	H/P	70 - 130 %
% Toluene-d8	99			%	1000	12/09/15	H/P	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	71000	28000	ug/kg	1000	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	103			%	1000	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	98			%	1000	12/09/15	HM	70 - 130 %
% Toluene-d8	99			%	1000	12/09/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	14000	710	ug/Kg	1000	12/09/15	HM	SW8260C
Acrolein	ND	14000	1800	ug/Kg	1000	12/09/15	HM	SW8260C
Acrylonitrile	ND	14000	360	ug/Kg	1000	12/09/15	HM	SW8260C
Tert-butyl alcohol	ND	71000	14000	ug/Kg	1000	12/09/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	670	340	ug/Kg	1	12/09/15	D/P	SW8270D
1,2,4-Trichlorobenzene	ND	670	290	ug/Kg	1	12/09/15	D/P	SW8270D
1,2-Dichlorobenzene	ND	670	270	ug/Kg	1	12/09/15	D/P	SW8270D
1,2-Diphenylhydrazine	ND	670	310	ug/Kg	1	12/09/15	D/P	SW8270D
1,3-Dichlorobenzene	ND	670	280	ug/Kg	1	12/09/15	D/P	SW8270D
1,4-Dichlorobenzene	ND	670	280	ug/Kg	1	12/09/15	D/P	SW8270D
2,4,5-Trichlorophenol	ND	670	530	ug/Kg	1	12/09/15	D/P	SW8270D
2,4,6-Trichlorophenol	ND	670	310	ug/Kg	1	12/09/15	D/P	SW8270D
2,4-Dichlorophenol	ND	670	340	ug/Kg	1	12/09/15	D/P	SW8270D
2,4-Dimethylphenol	ND	670	240	ug/Kg	1	12/09/15	D/P	SW8270D
2,4-Dinitrophenol	ND	1900	670	ug/Kg	1	12/09/15	D/P	SW8270D
2,4-Dinitrotoluene	ND	670	380	ug/Kg	1	12/09/15	D/P	SW8270D
2,6-Dinitrotoluene	ND	670	300	ug/Kg	1	12/09/15	D/P	SW8270D
2-Chloronaphthalene	ND	670	270	ug/Kg	1	12/09/15	D/P	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	670	270	ug/Kg	1	12/09/15	D/P	SW8270D
2-Methylnaphthalene	51000	D 6700	2900	ug/Kg	10	12/09/15	D/P	SW8270D
2-Methylphenol (o-cresol)	ND	330	330	ug/Kg	1	12/09/15	D/P	SW8270D
2-Nitroaniline	ND	1900	970	ug/Kg	1	12/09/15	D/P	SW8270D
2-Nitrophenol	ND	670	610	ug/Kg	1	12/09/15	D/P	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	670	380	ug/Kg	1	12/09/15	D/P	SW8270D
3,3'-Dichlorobenzidine	ND	1900	450	ug/Kg	1	12/09/15	D/P	SW8270D
3-Nitroaniline	ND	1900	1900	ug/Kg	1	12/09/15	D/P	SW8270D
4,6-Dinitro-2-methylphenol	ND	4800	1000	ug/Kg	1	12/09/15	D/P	SW8270D
4-Bromophenyl phenyl ether	ND	670	280	ug/Kg	1	12/09/15	D/P	SW8270D
4-Chloro-3-methylphenol	ND	670	340	ug/Kg	1	12/09/15	D/P	SW8270D
4-Chloroaniline	ND	770	450	ug/Kg	1	12/09/15	D/P	SW8270D
4-Chlorophenyl phenyl ether	ND	670	320	ug/Kg	1	12/09/15	D/P	SW8270D
4-Nitroaniline	ND	1900	320	ug/Kg	1	12/09/15	D/P	SW8270D
4-Nitrophenol	ND	960	430	ug/Kg	1	12/09/15	D/P	SW8270D
Acenaphthene	3800	670	290	ug/Kg	1	12/09/15	D/P	SW8270D
Acenaphthylene	1100	670	270	ug/Kg	1	12/09/15	D/P	SW8270D
Acetophenone	ND	670	300	ug/Kg	1	12/09/15	D/P	SW8270D
Aniline	ND	770	770	ug/Kg	1	12/09/15	D/P	SW8270D
Anthracene	6700	670	320	ug/Kg	1	12/09/15	D/P	SW8270D
Benz(a)anthracene	9600	670	320	ug/Kg	1	12/09/15	D/P	SW8270D
Benzidine	ND	1900	570	ug/Kg	1	12/09/15	D/P	SW8270D
Benzo(a)pyrene	9000	670	310	ug/Kg	1	12/09/15	D/P	SW8270D
Benzo(b)fluoranthene	7000	670	330	ug/Kg	1	12/09/15	D/P	SW8270D
Benzo(ghi)perylene	4400	670	310	ug/Kg	1	12/09/15	D/P	SW8270D
Benzo(k)fluoranthene	6500	670	320	ug/Kg	1	12/09/15	D/P	SW8270D
Benzoic acid	ND	4800	1900	ug/Kg	1	12/09/15	D/P	SW8270D
Benzyl butyl phthalate	2700	670	250	ug/Kg	1	12/09/15	D/P	SW8270D
Bis(2-chloroethoxy)methane	ND	670	270	ug/Kg	1	12/09/15	D/P	SW8270D
Bis(2-chloroethyl)ether	ND	670	260	ug/Kg	1	12/09/15	D/P	SW8270D
Bis(2-chloroisopropyl)ether	ND	670	270	ug/Kg	1	12/09/15	D/P	SW8270D
Bis(2-ethylhexyl)phthalate	ND	670	280	ug/Kg	1	12/09/15	D/P	SW8270D
Carbazole	1600	J 4800	730	ug/Kg	1	12/09/15	D/P	SW8270D
Chrysene	10000	670	320	ug/Kg	1	12/09/15	D/P	SW8270D
Dibenz(a,h)anthracene	910	670	310	ug/Kg	1	12/09/15	D/P	SW8270D
Dibenzofuran	2000	670	280	ug/Kg	1	12/09/15	D/P	SW8270D
Diethyl phthalate	ND	670	300	ug/Kg	1	12/09/15	D/P	SW8270D
Dimethylphthalate	ND	670	300	ug/Kg	1	12/09/15	D/P	SW8270D
Di-n-butylphthalate	ND	670	260	ug/Kg	1	12/09/15	D/P	SW8270D
Di-n-octylphthalate	ND	670	250	ug/Kg	1	12/09/15	D/P	SW8270D
Fluoranthene	20000	D 6700	3100	ug/Kg	10	12/09/15	D/P	SW8270D
Fluorene	4000	670	320	ug/Kg	1	12/09/15	D/P	SW8270D
Hexachlorobenzene	ND	670	280	ug/Kg	1	12/09/15	D/P	SW8270D
Hexachlorobutadiene	ND	670	350	ug/Kg	1	12/09/15	D/P	SW8270D
Hexachlorocyclopentadiene	ND	670	290	ug/Kg	1	12/09/15	D/P	SW8270D
Hexachloroethane	ND	670	290	ug/Kg	1	12/09/15	D/P	SW8270D
Indeno(1,2,3-cd)pyrene	4600	670	320	ug/Kg	1	12/09/15	D/P	SW8270D
Isophorone	ND	670	270	ug/Kg	1	12/09/15	D/P	SW8270D
Naphthalene	ND	670	280	ug/Kg	1	12/09/15	D/P	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	670	340	ug/Kg	1	12/09/15	D/P	SW8270D
N-Nitrosodimethylamine	ND	670	270	ug/Kg	1	12/09/15	D/P	SW8270D
N-Nitrosodi-n-propylamine	ND	670	310	ug/Kg	1	12/09/15	D/P	SW8270D
N-Nitrosodiphenylamine	ND	670	370	ug/Kg	1	12/09/15	D/P	SW8270D
Pentachloronitrobenzene	ND	670	360	ug/Kg	1	12/09/15	D/P	SW8270D
Pentachlorophenol	ND	670	360	ug/Kg	1	12/09/15	D/P	SW8270D
Phenanthrene	22000	D 6700	2800	ug/Kg	10	12/09/15	D/P	SW8270D
Phenol	ND	330	310	ug/Kg	1	12/09/15	D/P	SW8270D
Pyrene	19000	D 6700	3300	ug/Kg	10	12/09/15	D/P	SW8270D
Pyridine	ND	670	240	ug/Kg	1	12/09/15	D/P	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	67			%	1	12/09/15	D/P	30 - 130 %
% 2-Fluorobiphenyl	76			%	1	12/09/15	D/P	30 - 130 %
% 2-Fluorophenol	66			%	1	12/09/15	D/P	30 - 130 %
% Nitrobenzene-d5	81			%	1	12/09/15	D/P	30 - 130 %
% Phenol-d5	75			%	1	12/09/15	D/P	30 - 130 %
% Terphenyl-d14	81			%	1	12/09/15	D/P	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

**Volatile Comment:**

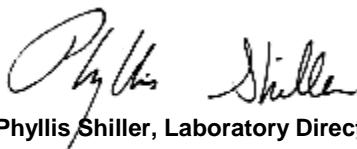
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds, some compounds were evaluated below the lowest calibration standard in order to achieve the request reporting criteria.

**Pesticide Comment:**

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

13:10  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34074

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B7 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.38	0.38	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Aluminum	8150	38	7.5	mg/Kg	10	12/10/15	EK	SW6010C	B
Arsenic	1.3	0.8	0.75	mg/Kg	1	12/10/15	LK	SW6010C	
Barium	13.2	0.8	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Beryllium	0.31	0.30	0.15	mg/Kg	1	12/10/15	LK	SW6010C	
Calcium	842	3.8	3.5	mg/Kg	1	12/10/15	LK	SW6010C	
Cadmium	< 0.38	0.38	0.15	mg/Kg	1	12/10/15	LK	SW6010C	
Cobalt	7.24	0.38	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Chromium	22.3	0.38	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Copper	13.1	0.38	0.38	mg/kg	1	12/10/15	LK	SW6010C	B
Iron	11400	38	38	mg/Kg	10	12/10/15	EK	SW6010C	
Mercury	< 0.03	0.03	0.02	mg/Kg	1	12/09/15	RS	SW7471B	
Potassium	1660	N 8	2.9	mg/Kg	1	12/10/15	LK	SW6010C	
Magnesium	4100	3.8	3.8	mg/Kg	1	12/10/15	LK	SW6010C	
Manganese	111	N 0.38	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Sodium	607	N 8	3.2	mg/Kg	1	12/10/15	LK	SW6010C	
Nickel	13.6	0.38	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Lead	3.7	0.8	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Antimony	< 1.9	1.9	1.9	mg/Kg	1	12/10/15	LK	SW6010C	
Selenium	< 1.5	1.5	1.3	mg/Kg	1	12/10/15	LK	SW6010C	
Thallium	< 1.5	1.5	1.5	mg/Kg	1	12/10/15	LK	SW6010C	
Vanadium	26.8	0.4	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Zinc	30.1	0.8	0.38	mg/Kg	1	12/10/15	LK	SW6010C	
Percent Solid	84			%		12/08/15	W	SW846-%Solid	
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A	
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A	
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A	
Mercury Digestion	Completed					12/09/15	W/W	SW7471B	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	39	39	ug/Kg	2	12/09/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	91			%	2	12/09/15	AW	30 - 150 %
% TCMX	81			%	2	12/09/15	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>								
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	39	39	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	39	39	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	12/09/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
% DCBP	72			%	2	12/09/15	CE	30 - 150 %
% TCMX	54			%	2	12/09/15	CE	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloroethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichloropropane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloropropane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichloropropane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
1,4-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
2-Chlorotoluene	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
2-Hexanone	ND	23	4.6	ug/Kg	1	12/09/15	HM	SW8260C
2-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
4-Chlorotoluene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	12/09/15	HM	SW8260C
Acetone	19	JS 46	4.6	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	9.2	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Benzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Bromobenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Bromodichloromethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Bromoform	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Bromomethane	ND	4.6	1.8	ug/Kg	1	12/09/15	HM	SW8260C
Carbon Disulfide	13	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Carbon tetrachloride	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Chloroethane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Chloroform	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Chloromethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Dibromochloromethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Dibromomethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Hexachlorobutadiene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Isopropylbenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
m&p-Xylene	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Methyl Ethyl Ketone	5.2	J 28	4.6	ug/Kg	1	12/09/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.2	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Methylene chloride	ND	4.6	4.6	ug/Kg	1	12/09/15	HM	SW8260C
Naphthalene	1.2	J 4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	4.6	0.83	ug/Kg	1	12/09/15	HM	SW8260C
o-Xylene	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Styrene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Tetrachloroethene	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	9.2	2.3	ug/Kg	1	12/09/15	HM	SW8260C
Toluene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.2	2.3	ug/Kg	1	12/09/15	HM	SW8260C
Trichloroethene	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorofluoromethane	ND	4.6	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	89			%	1	12/09/15	HM	70 - 130 %
% Dibromofluoromethane	100			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/09/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	92	37	ug/kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	89			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/09/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	18	0.92	ug/Kg	1	12/09/15	HM	SW8260C
Acrolein	ND	18	2.3	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	18	0.46	ug/Kg	1	12/09/15	HM	SW8260C
Tert-butyl alcohol	ND	92	18	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/09/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	96	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrophenol	ND	770	270	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylnaphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitroaniline	ND	770	390	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	12/09/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	770	180	ug/Kg	1	12/09/15	DD	SW8270D
3-Nitroaniline	ND	770	770	ug/Kg	1	12/09/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	410	ug/Kg	1	12/09/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	12/09/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitroaniline	ND	770	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitrophenol	ND	390	170	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Aniline	ND	310	310	ug/Kg	1	12/09/15	DD	SW8270D
Anthracene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzidine	ND	770	230	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(a)pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzoic acid	ND	1900	770	ug/Kg	1	12/09/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	99	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	270	100	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Carbazole	ND	1900	290	ug/Kg	1	12/09/15	DD	SW8270D
Chrysene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-octylphthalate	ND	270	99	ug/Kg	1	12/09/15	DD	SW8270D
Fluoranthene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Fluorene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Hexachloroethane	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Isophorone	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D

1

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
Pentachlorophenol	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Phenol	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Pyridine	ND	270	95	ug/Kg	1	12/09/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	64			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorobiphenyl	60			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorophenol	55			%	1	12/09/15	DD	30 - 130 %
% Nitrobenzene-d5	56			%	1	12/09/15	DD	30 - 130 %
% Phenol-d5	59			%	1	12/09/15	DD	30 - 130 %
% Terphenyl-d14	71			%	1	12/09/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

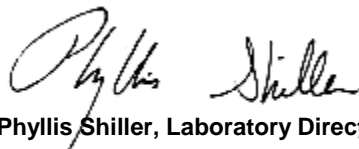
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

13:40  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34075

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B9 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	0.37	mg/Kg	1	12/10/15	LK	SW6010C
Aluminum	6790	37	7.4	mg/Kg	10	12/10/15	LK	SW6010C
Arsenic	3.9	0.7	0.74	mg/Kg	1	12/10/15	LK	SW6010C
Barium	137	0.7	0.37	mg/Kg	1	12/10/15	LK	SW6010C
Beryllium	0.34	0.30	0.15	mg/Kg	1	12/10/15	LK	SW6010C
Calcium	36200	37	34	mg/Kg	10	12/10/15	LK	SW6010C
Cadmium	0.17	B 0.37	0.15	mg/Kg	1	12/10/15	LK	SW6010C
Cobalt	7.99	0.37	0.37	mg/Kg	1	12/10/15	LK	SW6010C
Chromium	16.8	0.37	0.37	mg/Kg	1	12/10/15	LK	SW6010C
Copper	36.8	0.37	0.37	mg/kg	1	12/10/15	LK	SW6010C
Iron	17000	37	37	mg/Kg	10	12/10/15	LK	SW6010C
Mercury	0.40	0.03	0.02	mg/Kg	1	12/09/15	RS	SW7471B
Potassium	3370	N 7	2.9	mg/Kg	1	12/10/15	LK	SW6010C
Magnesium	4610	3.7	3.7	mg/Kg	1	12/10/15	LK	SW6010C
Manganese	182	N 3.7	3.7	mg/Kg	10	12/10/15	EK	SW6010C
Sodium	1910	N 7	3.2	mg/Kg	1	12/10/15	LK	SW6010C
Nickel	18.5	0.37	0.37	mg/Kg	1	12/10/15	LK	SW6010C
Lead	476	7.4	3.7	mg/Kg	10	12/10/15	LK	SW6010C
Antimony	< 1.9	1.9	1.9	mg/Kg	1	12/10/15	LK	SW6010C
Selenium	< 1.5	1.5	1.3	mg/Kg	1	12/10/15	LK	SW6010C
Thallium	< 1.5	1.5	1.5	mg/Kg	1	12/10/15	LK	SW6010C
Vanadium	26.5	0.4	0.37	mg/Kg	1	12/10/15	LK	SW6010C
Zinc	148	7.4	3.7	mg/Kg	10	12/10/15	LK	SW6010C
Percent Solid	81			%		12/08/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/09/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	40	40	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	92			%	2	12/09/15	AW	30 - 150 %
% TCMX	78			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.4	2.4	ug/Kg	2	12/11/15	CE	SW8081B
4,4' -DDE	ND	2.4	2.4	ug/Kg	2	12/11/15	CE	SW8081B
4,4' -DDT	ND	2.4	2.4	ug/Kg	2	12/11/15	CE	SW8081B
a-BHC	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
a-Chlordane	ND	4.0	4.0	ug/Kg	2	12/11/15	CE	SW8081B
Aldrin	ND	4.0	4.0	ug/Kg	2	12/11/15	CE	SW8081B
b-BHC	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Chlordane	ND	40	40	ug/Kg	2	12/11/15	CE	SW8081B
d-BHC	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Dieldrin	ND	4.0	4.0	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan I	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan II	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Endosulfan sulfate	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Endrin	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Endrin aldehyde	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Endrin ketone	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	12/11/15	CE	SW8081B
g-Chlordane	ND	4.0	4.0	ug/Kg	2	12/11/15	CE	SW8081B
Heptachlor	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	8.0	8.0	ug/Kg	2	12/11/15	CE	SW8081B
Methoxychlor	ND	40	40	ug/Kg	2	12/11/15	CE	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	12/11/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	60			%	2	12/11/15	CE	30 - 150 %
% TCMX	71			%	2	12/11/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,1,1-Trichloroethane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2-Trichloroethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloroethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloropropene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichloropropane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromoethane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloroethane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloropropane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichloropropane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
1,4-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
2,2-Dichloropropane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
2-Chlorotoluene	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
2-Hexanone	ND	27	5.4	ug/Kg	1	12/09/15	HM	SW8260C
2-Isopropyltoluene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
4-Chlorotoluene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
4-Methyl-2-pentanone	ND	27	5.4	ug/Kg	1	12/09/15	HM	SW8260C
Acetone	18	JS 50	5.4	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	11	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Benzene	0.83	J 5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Bromobenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Bromochloromethane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Bromodichloromethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Bromoform	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Bromomethane	ND	5.4	2.1	ug/Kg	1	12/09/15	HM	SW8260C
Carbon Disulfide	4.9	J 5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Carbon tetrachloride	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Chlorobenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Chloroethane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Chloroform	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Chloromethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Dibromochloromethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Dibromomethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Dichlorodifluoromethane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Ethylbenzene	2700	280	28	ug/Kg	50	12/09/15	HM	SW8260C
Hexachlorobutadiene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Isopropylbenzene	110	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
m&p-Xylene	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Methyl Ethyl Ketone	ND	32	5.4	ug/Kg	1	12/09/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Methylene chloride	ND	5.4	5.4	ug/Kg	1	12/09/15	HM	SW8260C
Naphthalene	16000	D 550	110	ug/Kg	100	12/10/15	HM	SW8260C
n-Butylbenzene	3.2	J 5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	48	5.4	0.97	ug/Kg	1	12/09/15	HM	SW8260C
o-Xylene	11	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
p-Isopropyltoluene	5.4	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
sec-Butylbenzene	2.0	J 5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Styrene	1.5	J 5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
tert-Butylbenzene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Tetrachloroethene	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	2.7	ug/Kg	1	12/09/15	HM	SW8260C
Toluene	6.8	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	2.7	ug/Kg	1	12/09/15	HM	SW8260C
Trichloroethene	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorofluoromethane	ND	5.4	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorotrifluoroethane	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Vinyl chloride	ND	5.4	0.54	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	103			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	100			%	1	12/09/15	HM	70 - 130 %
% Dibromofluoromethane	100			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	99			%	1	12/09/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	100	43	ug/kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	103			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	100			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	99			%	1	12/09/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	21	1.1	ug/Kg	1	12/09/15	HM	SW8260C
Acrolein	ND	21	2.7	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	21	0.54	ug/Kg	1	12/09/15	HM	SW8260C
Tert-butyl alcohol	ND	110	21	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	290	140	ug/Kg	1	12/09/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Dichlorobenzene	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
1,3-Dichlorobenzene	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
1,4-Dichlorobenzene	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	290	220	ug/Kg	1	12/09/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dichlorophenol	ND	290	140	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dimethylphenol	ND	290	100	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrophenol	ND	820	290	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrotoluene	ND	290	160	ug/Kg	1	12/09/15	DD	SW8270D
2,6-Dinitrotoluene	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
2-Chloronaphthalene	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D

Client ID: 15B9 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylnaphthalene	210	J 290	120	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	290	190	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitroaniline	ND	820	410	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitrophenol	ND	290	260	ug/Kg	1	12/09/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	290	160	ug/Kg	1	12/09/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	820	190	ug/Kg	1	12/09/15	DD	SW8270D
3-Nitroaniline	ND	820	820	ug/Kg	1	12/09/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	440	ug/Kg	1	12/09/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	290	140	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloroaniline	ND	330	190	ug/Kg	1	12/09/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	290	140	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitroaniline	ND	820	140	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitrophenol	ND	410	190	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthene	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthylene	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Acetophenone	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Aniline	ND	330	330	ug/Kg	1	12/09/15	DD	SW8270D
Anthracene	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Benz(a)anthracene	630	290	140	ug/Kg	1	12/09/15	DD	SW8270D
Benzidine	ND	820	240	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(a)pyrene	600	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(b)fluoranthene	470	290	140	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(ghi)perylene	380	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(k)fluoranthene	450	290	140	ug/Kg	1	12/09/15	DD	SW8270D
Benzoic acid	ND	2000	820	ug/Kg	1	12/09/15	DD	SW8270D
Benzyl butyl phthalate	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
Carbazole	ND	2000	310	ug/Kg	1	12/09/15	DD	SW8270D
Chrysene	790	290	140	ug/Kg	1	12/09/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Dibenzofuran	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
Diethyl phthalate	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Dimethylphthalate	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-butylphthalate	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-octylphthalate	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Fluoranthene	1500	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Fluorene	ND	290	140	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobenzene	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobutadiene	ND	290	150	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Hexachloroethane	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	360	290	140	ug/Kg	1	12/09/15	DD	SW8270D
Isophorone	ND	290	110	ug/Kg	1	12/09/15	DD	SW8270D
Naphthalene	3700	290	120	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	290	140	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodimethylamine	ND	290	120	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	290	160	ug/Kg	1	12/09/15	DD	SW8270D
Pentachloronitrobenzene	ND	290	150	ug/Kg	1	12/09/15	DD	SW8270D
Pentachlorophenol	ND	290	150	ug/Kg	1	12/09/15	DD	SW8270D
Phenanthrene	370	290	120	ug/Kg	1	12/09/15	DD	SW8270D
Phenol	ND	290	130	ug/Kg	1	12/09/15	DD	SW8270D
Pyrene	1600	290	140	ug/Kg	1	12/09/15	DD	SW8270D
Pyridine	ND	290	100	ug/Kg	1	12/09/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	74			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorobiphenyl	73			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorophenol	61			%	1	12/09/15	DD	30 - 130 %
% Nitrobenzene-d5	68			%	1	12/09/15	DD	30 - 130 %
% Phenol-d5	72			%	1	12/09/15	DD	30 - 130 %
% Terphenyl-d14	75			%	1	12/09/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

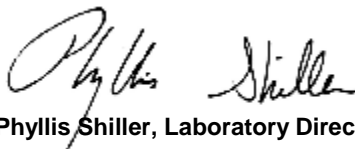
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

11:00  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34076

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B1 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	0.34	mg/Kg	1	12/10/15	LK	SW6010C
Aluminum	8800	34	6.8	mg/Kg	10	12/10/15	LK	SW6010C
Arsenic	4.3	0.7	0.68	mg/Kg	1	12/10/15	LK	SW6010C
Barium	72.4	0.7	0.34	mg/Kg	1	12/10/15	LK	SW6010C
Beryllium	0.88	0.27	0.14	mg/Kg	1	12/10/15	LK	SW6010C
Calcium	47200	34	31	mg/Kg	10	12/10/15	LK	SW6010C
Cadmium	0.14	B 0.34	0.14	mg/Kg	1	12/10/15	LK	SW6010C
Cobalt	10.9	0.34	0.34	mg/Kg	1	12/10/15	LK	SW6010C
Chromium	17.3	0.34	0.34	mg/Kg	1	12/10/15	LK	SW6010C
Copper	27.7	0.34	0.34	mg/kg	1	12/10/15	LK	SW6010C
Iron	16400	34	34	mg/Kg	10	12/10/15	LK	SW6010C
Mercury	0.15	0.03	0.02	mg/Kg	1	12/09/15	RS	SW7471B
Potassium	3110	N 7	2.7	mg/Kg	1	12/10/15	LK	SW6010C
Magnesium	30600	34	34	mg/Kg	10	12/10/15	LK	SW6010C
Manganese	379	N 3.4	3.4	mg/Kg	10	12/10/15	EK	SW6010C
Sodium	321	N 7	2.9	mg/Kg	1	12/10/15	LK	SW6010C
Nickel	18.8	0.34	0.34	mg/Kg	1	12/10/15	LK	SW6010C
Lead	74.3	0.7	0.34	mg/Kg	1	12/10/15	LK	SW6010C
Antimony	< 1.7	1.7	1.7	mg/Kg	1	12/10/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/10/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/10/15	LK	SW6010C
Vanadium	23.8	0.3	0.34	mg/Kg	1	12/10/15	LK	SW6010C
Zinc	516	6.8	3.4	mg/Kg	10	12/10/15	LK	SW6010C
Percent Solid	93			%		12/08/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/09/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	111			%	2	12/09/15	AW	30 - 150 %
% TCMX	90			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.6	3.6	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.6	3.6	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	36	36	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.6	3.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.4	1.4	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.6	3.6	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	36	36	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	140	140	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	118			%	2	12/09/15	CE	30 - 150 %
% TCMX	88			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,1,1-Trichloroethane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,1,2-Trichloroethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,1-Dichloroethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,1-Dichloropropene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,2,3-Trichlorobenzene	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,2,3-Trichloropropane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,2,4-Trichlorobenzene	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,2,4-Trimethylbenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,2-Dibromoethane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,2-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,2-Dichloroethane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,2-Dichloropropane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,3,5-Trimethylbenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,3-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
1,3-Dichloropropane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
1,4-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
2,2-Dichloropropane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
2-Chlorotoluene	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
2-Hexanone	ND	19	3.8	ug/Kg	1	12/09/15	H/P	SW8260C
2-Isopropyltoluene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
4-Chlorotoluene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
4-Methyl-2-pentanone	ND	19	3.8	ug/Kg	1	12/09/15	H/P	SW8260C
Acetone	6.2	JS 38	3.8	ug/Kg	1	12/09/15	H/P	SW8260C
Acrylonitrile	ND	7.5	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Benzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Bromobenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Bromochloromethane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Bromodichloromethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Bromoform	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Bromomethane	ND	3.8	1.5	ug/Kg	1	12/09/15	H/P	SW8260C
Carbon Disulfide	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Carbon tetrachloride	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Chlorobenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Chloroethane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Chloroform	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Chloromethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
cis-1,2-Dichloroethene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
cis-1,3-Dichloropropene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Dibromochloromethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Dibromomethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Dichlorodifluoromethane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Ethylbenzene	1.7	J 3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Hexachlorobutadiene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Isopropylbenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
m&p-Xylene	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Methyl Ethyl Ketone	ND	23	3.8	ug/Kg	1	12/09/15	H/P	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.5	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Methylene chloride	ND	3.8	3.8	ug/Kg	1	12/09/15	H/P	SW8260C
Naphthalene	ND	260	52	ug/Kg	50	12/09/15	H/P	SW8260C
n-Butylbenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	3.8	0.68	ug/Kg	1	12/09/15	H/P	SW8260C
o-Xylene	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
p-Isopropyltoluene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
sec-Butylbenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Styrene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
tert-Butylbenzene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Tetrachloroethene	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Tetrahydrofuran (THF)	ND	7.5	1.9	ug/Kg	1	12/09/15	H/P	SW8260C
Toluene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
trans-1,2-Dichloroethene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
trans-1,3-Dichloropropene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
trans-1,4-dichloro-2-butene	ND	7.5	1.9	ug/Kg	1	12/09/15	H/P	SW8260C
Trichloroethene	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Trichlorofluoromethane	ND	3.8	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Trichlorotrifluoroethane	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Vinyl chloride	ND	3.8	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	123			%	1	12/09/15	H/P	70 - 130 %
% Bromofluorobenzene	68			%	1	12/09/15	H/P	70 - 130 %
% Dibromofluoromethane	109			%	1	12/09/15	H/P	70 - 130 %
% Toluene-d8	91			%	1	12/09/15	H/P	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	75	30	ug/kg	1	12/09/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	123			%	1	12/09/15	H/P	70 - 130 %
% Bromofluorobenzene	68			%	1	12/09/15	H/P	70 - 130 %
% Toluene-d8	91			%	1	12/09/15	H/P	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	15	0.75	ug/Kg	1	12/09/15	H/P	SW8260C
Acrolein	ND	15	1.9	ug/Kg	1	12/09/15	H/P	SW8260C
Acrylonitrile	ND	15	0.38	ug/Kg	1	12/09/15	H/P	SW8260C
Tert-butyl alcohol	ND	75	15	ug/Kg	1	12/09/15	H/P	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	12/09/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	12/09/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	12/09/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	130	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrophenol	ND	710	250	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	140	ug/Kg	1	12/09/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylnaphthalene	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitroaniline	ND	710	360	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitrophenol	ND	250	230	ug/Kg	1	12/09/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	12/09/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	710	170	ug/Kg	1	12/09/15	DD	SW8270D
3-Nitroaniline	ND	710	710	ug/Kg	1	12/09/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1800	380	ug/Kg	1	12/09/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloroaniline	ND	280	170	ug/Kg	1	12/09/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitroaniline	ND	710	120	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthylene	100	J 250	100	ug/Kg	1	12/09/15	DD	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
Aniline	ND	280	280	ug/Kg	1	12/09/15	DD	SW8270D
Anthracene	140	J 250	120	ug/Kg	1	12/09/15	DD	SW8270D
Benz(a)anthracene	750	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzidine	ND	710	210	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(a)pyrene	770	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(b)fluoranthene	510	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(ghi)perylene	420	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(k)fluoranthene	510	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzoic acid	ND	1800	710	ug/Kg	1	12/09/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	92	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	98	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	250	96	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	99	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
Carbazole	ND	1800	270	ug/Kg	1	12/09/15	DD	SW8270D
Chrysene	810	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-butylphthalate	ND	250	95	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-octylphthalate	ND	250	92	ug/Kg	1	12/09/15	DD	SW8270D
Fluoranthene	1200	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Fluorene	ND	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobenzene	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
Hexachloroethane	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	400	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Isophorone	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	250	120	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	120	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	12/09/15	DD	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	12/09/15	DD	SW8270D
Pentachlorophenol	ND	250	130	ug/Kg	1	12/09/15	DD	SW8270D
Phenanthrene	490	250	100	ug/Kg	1	12/09/15	DD	SW8270D
Phenol	ND	250	110	ug/Kg	1	12/09/15	DD	SW8270D
Pyrene	1500	250	120	ug/Kg	1	12/09/15	DD	SW8270D
Pyridine	ND	250	88	ug/Kg	1	12/09/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	53			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorobiphenyl	58			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorophenol	43			%	1	12/09/15	DD	30 - 130 %
% Nitrobenzene-d5	59			%	1	12/09/15	DD	30 - 130 %
% Phenol-d5	51			%	1	12/09/15	DD	30 - 130 %
% Terphenyl-d14	56			%	1	12/09/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 3 = This parameter exceeds laboratory specified limits.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

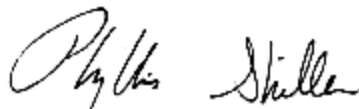
**Volatile Comment:**

Sample exhibited matrix interference in the volatile analysis. Both Low-level vials were analyzed with one or more poor internal standard responses. The high level analysis did not exhibit this interference. Had any compounds been detected in the high level analysis, they would have been reported at that dilution. The low level analysis was reported, in order to meet the requested reporting criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



**Environmental Laboratories, Inc.**  
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 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

11:20  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34077

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B2 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.35	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C	
Aluminum	13300	35	7.1	mg/Kg	10	12/10/15	LK	SW6010C	B
Arsenic	4.3	0.7	0.71	mg/Kg	1	12/10/15	LK	SW6010C	
Barium	134	0.7	0.35	mg/Kg	1	12/10/15	LK	SW6010C	
Beryllium	0.40	0.28	0.14	mg/Kg	1	12/10/15	LK	SW6010C	
Calcium	39200	35	33	mg/Kg	10	12/10/15	LK	SW6010C	
Cadmium	< 0.35	0.35	0.14	mg/Kg	1	12/10/15	LK	SW6010C	
Cobalt	13.0	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C	
Chromium	25.8	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C	
Copper	43.5	0.35	0.35	mg/kg	1	12/10/15	LK	SW6010C	B
Iron	23000	35	35	mg/Kg	10	12/10/15	LK	SW6010C	
Mercury	2.74	0.27	0.16	mg/Kg	1	12/09/15	RS	SW7471B	
Potassium	6140	N 71	28	mg/Kg	10	12/10/15	LK	SW6010C	
Magnesium	5990	35	35	mg/Kg	10	12/10/15	LK	SW6010C	
Manganese	205	N 3.5	3.5	mg/Kg	10	12/10/15	EK	SW6010C	
Sodium	865	N 7	3.0	mg/Kg	1	12/10/15	LK	SW6010C	
Nickel	19.7	0.35	0.35	mg/Kg	1	12/10/15	LK	SW6010C	
Lead	90.2	0.7	0.35	mg/Kg	1	12/10/15	LK	SW6010C	
Antimony	< 1.8	1.8	1.8	mg/Kg	1	12/10/15	LK	SW6010C	
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/10/15	LK	SW6010C	
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/10/15	LK	SW6010C	
Vanadium	33.3	0.4	0.35	mg/Kg	1	12/10/15	LK	SW6010C	
Zinc	133	7.1	3.5	mg/Kg	10	12/10/15	LK	SW6010C	
Percent Solid	94			%		12/08/15	W	SW846-%Solid	
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A	
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A	
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A	
Mercury Digestion	Completed					12/09/15	W/W	SW7471B	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	107			%	2	12/09/15	AW	30 - 150 %
% TCMX	84			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	35	35	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.4	1.4	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	35	35	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	140	140	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	108			%	2	12/09/15	CE	30 - 150 %
% TCMX	85			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,1,1-Trichloroethane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2-Trichloroethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloroethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloropropene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichloropropane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromoethane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichlorobenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloroethane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloropropane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichlorobenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichloropropane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
1,4-Dichlorobenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
2,2-Dichloropropane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
2-Chlorotoluene	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
2-Hexanone	ND	17	3.5	ug/Kg	1	12/09/15	HM	SW8260C
2-Isopropyltoluene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
4-Chlorotoluene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
4-Methyl-2-pentanone	ND	17	3.5	ug/Kg	1	12/09/15	HM	SW8260C
Acetone	ND	35	3.5	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	6.9	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Benzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Bromobenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Bromochloromethane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Bromodichloromethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Bromoform	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Bromomethane	ND	3.5	1.4	ug/Kg	1	12/09/15	HM	SW8260C
Carbon Disulfide	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Carbon tetrachloride	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Chlorobenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Chloroethane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Chloroform	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Chloromethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Dibromochloromethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Dibromomethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Dichlorodifluoromethane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Ethylbenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Hexachlorobutadiene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Isopropylbenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
m&p-Xylene	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Methyl Ethyl Ketone	ND	21	3.5	ug/Kg	1	12/09/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	6.9	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Methylene chloride	ND	3.5	3.5	ug/Kg	1	12/09/15	HM	SW8260C
Naphthalene	240	170	33	ug/Kg	50	12/09/15	HM	SW8260C
n-Butylbenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	3.5	0.62	ug/Kg	1	12/09/15	HM	SW8260C
o-Xylene	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
p-Isopropyltoluene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
sec-Butylbenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Styrene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
tert-Butylbenzene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Tetrachloroethene	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	6.9	1.7	ug/Kg	1	12/09/15	HM	SW8260C
Toluene	2.8	J 3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	6.9	1.7	ug/Kg	1	12/09/15	HM	SW8260C
Trichloroethene	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorofluoromethane	ND	3.5	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorotrifluoroethane	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Vinyl chloride	ND	3.5	0.35	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	111			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	86			%	1	12/09/15	HM	70 - 130 %
% Dibromofluoromethane	98			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/09/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	69	28	ug/kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	111			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	86			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/09/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	14	0.69	ug/Kg	1	12/09/15	HM	SW8260C
Acrolein	ND	14	1.7	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	14	0.35	ug/Kg	1	12/09/15	HM	SW8260C
Tert-butyl alcohol	ND	69	14	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	12/09/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Dichlorobenzene	ND	240	98	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	12/09/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dichlorophenol	ND	240	120	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dimethylphenol	ND	240	86	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrophenol	ND	690	240	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrotoluene	ND	240	140	ug/Kg	1	12/09/15	DD	SW8270D
2,6-Dinitrotoluene	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Chloronaphthalene	ND	240	98	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	240	98	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylnaphthalene	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitroaniline	ND	690	350	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitrophenol	ND	240	220	ug/Kg	1	12/09/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	12/09/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	690	160	ug/Kg	1	12/09/15	DD	SW8270D
3-Nitroaniline	ND	690	690	ug/Kg	1	12/09/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1700	370	ug/Kg	1	12/09/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	12/09/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitroaniline	ND	690	120	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthene	170	J 240	110	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthylene	250	240	97	ug/Kg	1	12/09/15	DD	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Aniline	ND	280	280	ug/Kg	1	12/09/15	DD	SW8270D
Anthracene	420	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Benz(a)anthracene	2400	240	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzidine	ND	690	200	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(a)pyrene	2400	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(b)fluoranthene	2100	240	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(ghi)perylene	1300	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(k)fluoranthene	2100	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Benzoic acid	ND	1700	690	ug/Kg	1	12/09/15	DD	SW8270D
Benzyl butyl phthalate	ND	240	89	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	240	94	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	96	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
Carbazole	ND	1700	260	ug/Kg	1	12/09/15	DD	SW8270D
Chrysene	2600	240	120	ug/Kg	1	12/09/15	DD	SW8270D
Dibenz(a,h)anthracene	270	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Dibenzofuran	110	J 240	100	ug/Kg	1	12/09/15	DD	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-butylphthalate	ND	240	92	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-octylphthalate	ND	240	89	ug/Kg	1	12/09/15	DD	SW8270D
Fluoranthene	6700	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Fluorene	180	J 240	110	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobenzene	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Hexachloroethane	ND	240	100	ug/Kg	1	12/09/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1400	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Isophorone	ND	350	350	ug/Kg	1	12/09/15	DD	SW8270D
Naphthalene	240	J 240	100	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	240	120	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodimethylamine	ND	240	98	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	12/09/15	DD	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	12/09/15	DD	SW8270D
Pentachlorophenol	ND	240	130	ug/Kg	1	12/09/15	DD	SW8270D
Phenanthrene	3100	240	99	ug/Kg	1	12/09/15	DD	SW8270D
Phenol	ND	240	110	ug/Kg	1	12/09/15	DD	SW8270D
Pyrene	5900	240	120	ug/Kg	1	12/09/15	DD	SW8270D
Pyridine	ND	240	85	ug/Kg	1	12/09/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	74			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorobiphenyl	80			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorophenol	75			%	1	12/09/15	DD	30 - 130 %
% Nitrobenzene-d5	81			%	1	12/09/15	DD	30 - 130 %
% Phenol-d5	74			%	1	12/09/15	DD	30 - 130 %
% Terphenyl-d14	76			%	1	12/09/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

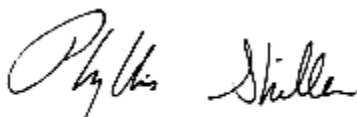
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 05, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/07/15  
 12/08/15

Time

13:00  
 0:00

Laboratory Data

SDG ID: GBK34071  
 Phoenix ID: BK34078

Project ID: 101 LINCOLN AVE., BRONX  
 Client ID: 15B7 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.36	0.36	0.36	mg/Kg	1	12/10/15	LK	SW6010C	
Aluminum	14000	36	7.3	mg/Kg	10	12/10/15	LK	SW6010C	B
Arsenic	6.0	0.7	0.73	mg/Kg	1	12/10/15	LK	SW6010C	
Barium	63.4	7.3	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Beryllium	0.49	0.29	0.15	mg/Kg	1	12/10/15	LK	SW6010C	
Calcium	2710	36	33	mg/Kg	10	12/10/15	LK	SW6010C	
Cadmium	< 0.36	0.36	0.15	mg/Kg	1	12/10/15	LK	SW6010C	
Cobalt	8.6	3.6	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Chromium	16.9	3.6	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Copper	26.8	0.36	0.36	mg/kg	1	12/10/15	LK	SW6010C	B
Iron	23100	36	36	mg/Kg	10	12/10/15	LK	SW6010C	
Mercury	6.38	0.30	0.18	mg/Kg	1	12/09/15	RS	SW7471B	
Potassium	1090	N 7	2.8	mg/Kg	1	12/10/15	LK	SW6010C	
Magnesium	3470	36	36	mg/Kg	10	12/10/15	LK	SW6010C	
Manganese	620	N 3.6	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Sodium	633	N 7	3.1	mg/Kg	1	12/10/15	LK	SW6010C	
Nickel	17.8	3.6	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Lead	92.2	7.3	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Antimony	< 1.8	1.8	1.8	mg/Kg	1	12/10/15	LK	SW6010C	
Selenium	< 1.5	1.5	1.2	mg/Kg	1	12/10/15	LK	SW6010C	
Thallium	< 1.5	1.5	1.5	mg/Kg	1	12/10/15	LK	SW6010C	
Vanadium	21.6	3.6	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Zinc	147	7.3	3.6	mg/Kg	10	12/10/15	LK	SW6010C	
Percent Solid	86			%		12/08/15	W	SW846-%Solid	
Soil Extraction for PCB	Completed					12/08/15	CC	SW3545A	
Soil Extraction for Pesticide	Completed					12/08/15	CC	SW3545A	
Soil Extraction for SVOA	Completed					12/08/15	JJ/CKV	SW3545A	
Mercury Digestion	Completed					12/09/15	W/W	SW7471B	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/08/15	G/AG	SW3050B
Field Extraction	Completed					12/07/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	97			%	2	12/09/15	AW	30 - 150 %
% TCMX	82			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	3.1	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	110			%	2	12/09/15	CE	30 - 150 %
% TCMX	84			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloroethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,1-Dichloropropene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,2,3-Trichloropropane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dibromoethane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloroethane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,2-Dichloropropane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
1,3-Dichloropropane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
1,4-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
2,2-Dichloropropane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
2-Chlorotoluene	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
2-Hexanone	ND	21	4.2	ug/Kg	1	12/09/15	HM	SW8260C
2-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
4-Chlorotoluene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
4-Methyl-2-pentanone	ND	21	4.2	ug/Kg	1	12/09/15	HM	SW8260C
Acetone	ND	42	4.2	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	8.4	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Benzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Bromobenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Bromochloromethane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Bromodichloromethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Bromoform	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Bromomethane	ND	4.2	1.7	ug/Kg	1	12/09/15	HM	SW8260C
Carbon Disulfide	0.99	J 4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Carbon tetrachloride	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Chlorobenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Chloroethane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Chloroform	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Chloromethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Dibromochloromethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Dibromomethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Ethylbenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Hexachlorobutadiene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Isopropylbenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
m&p-Xylene	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Methyl Ethyl Ketone	ND	25	4.2	ug/Kg	1	12/09/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.4	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Methylene chloride	ND	4.2	4.2	ug/Kg	1	12/09/15	HM	SW8260C
Naphthalene	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
n-Butylbenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	4.2	0.75	ug/Kg	1	12/09/15	HM	SW8260C
o-Xylene	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
p-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
sec-Butylbenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Styrene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
tert-Butylbenzene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Tetrachloroethene	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	8.4	2.1	ug/Kg	1	12/09/15	HM	SW8260C
Toluene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	8.4	2.1	ug/Kg	1	12/09/15	HM	SW8260C
Trichloroethene	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorofluoromethane	ND	4.2	0.84	ug/Kg	1	12/09/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
Vinyl chloride	ND	4.2	0.42	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	108			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	84			%	1	12/09/15	HM	70 - 130 %
% Dibromofluoromethane	102			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/09/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	59	24	ug/kg	1	12/09/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	106			%	1	12/09/15	HM	70 - 130 %
% Bromofluorobenzene	89			%	1	12/09/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/09/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	12	0.59	ug/Kg	1	12/09/15	HM	SW8260C
Acrolein	ND	12	1.5	ug/Kg	1	12/09/15	HM	SW8260C
Acrylonitrile	ND	12	0.30	ug/Kg	1	12/09/15	HM	SW8260C
Tert-butyl alcohol	ND	59	12	ug/Kg	1	12/09/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/09/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	94	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrophenol	ND	760	270	ug/Kg	1	12/09/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylnaphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitroaniline	ND	760	380	ug/Kg	1	12/09/15	DD	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	12/09/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	760	180	ug/Kg	1	12/09/15	DD	SW8270D
3-Nitroaniline	ND	760	760	ug/Kg	1	12/09/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	410	ug/Kg	1	12/09/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Chloroaniline	ND	300	180	ug/Kg	1	12/09/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitroaniline	ND	760	130	ug/Kg	1	12/09/15	DD	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Aniline	ND	300	300	ug/Kg	1	12/09/15	DD	SW8270D
Anthracene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzidine	ND	760	220	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(a)pyrene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Benzoic acid	ND	1900	760	ug/Kg	1	12/09/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	98	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	270	100	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Carbazole	ND	1900	290	ug/Kg	1	12/09/15	DD	SW8270D
Chrysene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/09/15	DD	SW8270D
Di-n-octylphthalate	ND	270	98	ug/Kg	1	12/09/15	DD	SW8270D
Fluoranthene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Fluorene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobenzene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Hexachloroethane	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Isophorone	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/09/15	DD	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
Pentachlorophenol	ND	270	140	ug/Kg	1	12/09/15	DD	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	12/09/15	DD	SW8270D
Phenol	ND	270	120	ug/Kg	1	12/09/15	DD	SW8270D
Pyrene	ND	270	130	ug/Kg	1	12/09/15	DD	SW8270D
Pyridine	ND	270	94	ug/Kg	1	12/09/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	70			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorobiphenyl	70			%	1	12/09/15	DD	30 - 130 %
% 2-Fluorophenol	57			%	1	12/09/15	DD	30 - 130 %
% Nitrobenzene-d5	65			%	1	12/09/15	DD	30 - 130 %
% Phenol-d5	65			%	1	12/09/15	DD	30 - 130 %
% Terphenyl-d14	80			%	1	12/09/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

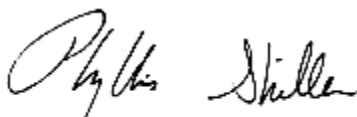
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
 This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**February 05, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
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# QA/QC Report

February 05, 2016

## QA/QC Data

SDG I.D.: GBK34071

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 328983 (mg/kg), QC Sample No: BK33822 (BK34071, BK34072, BK34073, BK34074, BK34075, BK34076, BK34077, BK34078)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	98.1	96.8	1.3	100	101	1.0	75 - 125	30
QA/QC Batch 328954 (mg/kg), QC Sample No: BK34069 (BK34071, BK34072, BK34073, BK34074, BK34075, BK34076, BK34077, BK34078)													
<u>ICP Metals - Soil</u>													
Aluminum	21.1	5.0	8040	8920	10.4	111	104	6.5	NC	NC	NC	80 - 120	30
Antimony	BRL	3.3	<1.7	<3.3	NC	93.1	87.7	6.0	85.6	85.3	0.4	70 - 130	30
Arsenic	BRL	0.67	3.0	2.98	NC	105	100	4.9	91.5	89.3	2.4	80 - 120	30
Barium	BRL	0.33	75.9	72.1	5.10	108	100	7.7	106	101	4.8	80 - 120	30
Beryllium	BRL	0.27	0.45	0.47	NC	103	96.7	6.3	98.3	95.6	2.8	80 - 120	30
Cadmium	BRL	0.33	0.16	0.20	NC	95.1	89.1	6.5	94.0	92.6	1.5	80 - 120	30
Calcium	BRL	5.0	2520	2170	14.9	112	107	4.6	NC	NC	NC	80 - 120	30
Chromium	BRL	0.33	17.5	16.4	6.50	105	98.1	6.8	100	103	3.0	80 - 120	30
Cobalt	BRL	0.33	7.78	7.50	3.70	100	93.8	6.4	98.3	97.0	1.3	80 - 120	30
Copper	0.54	0.33	23.2	22.7	2.20	108	102	5.7	106	103	2.9	80 - 120	30
Iron	BRL	5.0	19500	19900	2.00	117	109	7.1	NC	NC	NC	80 - 120	30
Lead	BRL	0.33	43.5	40.0	8.40	106	100	5.8	95.6	94.0	1.7	80 - 120	30
Magnesium	BRL	5.0	2230	2180	2.30	103	96.5	6.5	NC	NC	NC	80 - 120	30
Manganese	BRL	0.33	404	417	3.20	103	97.6	5.4	>130	>130	NC	80 - 120	30 m
Nickel	BRL	0.33	17.5	16.0	9.00	101	95.4	5.7	97.2	95.2	2.1	80 - 120	30
Potassium	BRL	5.0	1250	1190	4.90	112	105	6.5	>130	>130	NC	80 - 120	30 m
Selenium	BRL	1.3	<1.4	<1.3	NC	94.6	91.7	3.1	79.5	77.4	2.7	80 - 120	30
Silver	BRL	0.33	<0.35	<0.33	NC	107	101	5.8	101	99.9	1.1	70 - 130	30
Sodium	BRL	5.0	89	81.4	8.90	90.1	90.1	0.0	>130	>130	NC	80 - 120	30 m
Thallium	BRL	3.0	<1.4	<3.0	NC	101	92.9	8.4	96.9	95.7	1.2	80 - 120	30
Vanadium	BRL	0.33	30.4	28.2	7.50	102	95.0	7.1	99.2	99.3	0.1	80 - 120	30
Zinc	BRL	0.33	50.7	48.7	4.00	103	97.0	6.0	98.9	97.1	1.8	80 - 120	30

m = This parameter is outside laboratory MS/MSD specified recovery limits.



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# QA/QC Report

February 05, 2016

## QA/QC Data

SDG I.D.: GBK34071

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 329001 (ug/kg), QC Sample No: BK33823 (BK34071, BK34072, BK34073 (1000X) , BK34075, BK34076, BK34078)										
<b>Volatiles - Soil</b>										
1,1,1,2-Tetrachloroethane	ND	5.0	124	122	1.6	113	114	0.9	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	128	122	4.8	109	110	0.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	120	122	1.7	114	116	1.7	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	113	117	3.5	107	109	1.9	70 - 130	30
1,1-Dichloroethane	ND	5.0	121	118	2.5	110	110	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	125	119	4.9	81	84	3.6	70 - 130	30
1,1-Dichloropropene	ND	5.0	128	122	4.8	115	118	2.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	106	111	4.6	102	107	4.8	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	120	122	1.7	115	117	1.7	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	104	108	3.8	104	109	4.7	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	116	114	1.7	109	109	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	115	121	5.1	106	108	1.9	70 - 130	30
1,2-Dibromoethane	ND	5.0	119	122	2.5	112	113	0.9	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	114	114	0.0	110	110	0.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	122	123	0.8	110	108	1.8	70 - 130	30
1,2-Dichloropropane	ND	5.0	118	117	0.9	111	112	0.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	123	120	2.5	115	116	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	114	113	0.9	111	111	0.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	118	120	1.7	113	113	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	111	112	0.9	110	109	0.9	70 - 130	30
1,4-dioxane	ND	100	139	125	10.6	116	113	2.6	70 - 130	30 l
2,2-Dichloropropane	ND	5.0	124	120	3.3	108	111	2.7	70 - 130	30
2-Chlorotoluene	ND	5.0	117	115	1.7	112	113	0.9	70 - 130	30
2-Hexanone	ND	25	111	115	3.5	105	105	0.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	126	121	4.0	116	118	1.7	70 - 130	30
4-Chlorotoluene	ND	5.0	114	113	0.9	111	112	0.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	114	118	3.4	108	108	0.0	70 - 130	30
Acetone	ND	10	86	85	1.2	60	62	3.3	70 - 130	30 m
Acrolein	ND	25	125	130	3.9	91	94	3.2	70 - 130	30
Acrylonitrile	ND	5.0	121	124	2.4	114	114	0.0	70 - 130	30
Benzene	ND	1.0	122	119	2.5	113	115	1.8	70 - 130	30
Bromobenzene	ND	5.0	116	117	0.9	112	112	0.0	70 - 130	30
Bromochloromethane	ND	5.0	116	118	1.7	109	110	0.9	70 - 130	30
Bromodichloromethane	ND	5.0	127	127	0.0	111	113	1.8	70 - 130	30
Bromoform	ND	5.0	123	126	2.4	109	109	0.0	70 - 130	30
Bromomethane	ND	5.0	115	113	1.8	63	73	14.7	70 - 130	30 m
Carbon Disulfide	ND	5.0	121	115	5.1	80	83	3.7	70 - 130	30
Carbon tetrachloride	ND	5.0	129	123	4.8	107	109	1.9	70 - 130	30
Chlorobenzene	ND	5.0	119	115	3.4	111	113	1.8	70 - 130	30
Chloroethane	ND	5.0	122	115	5.9	43	42	2.4	70 - 130	30 m
Chloroform	ND	5.0	120	118	1.7	108	108	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GBK34071

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Chloromethane	ND	5.0	115	108	6.3	107	104	2.8	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	116	115	0.9	112	110	1.8	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	117	119	1.7	111	112	0.9	70 - 130	30
Dibromochloromethane	ND	3.0	126	127	0.8	111	111	0.0	70 - 130	30
Dibromomethane	ND	5.0	117	119	1.7	109	109	0.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	121	112	7.7	105	105	0.0	70 - 130	30
Ethylbenzene	ND	1.0	125	120	4.1	115	117	1.7	70 - 130	30
Hexachlorobutadiene	ND	5.0	125	121	3.3	118	121	2.5	70 - 130	30
Isopropylbenzene	ND	1.0	125	120	4.1	115	117	1.7	70 - 130	30
m&p-Xylene	ND	2.0	122	118	3.3	114	114	0.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	101	105	3.9	101	99	2.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	118	121	2.5	105	104	1.0	70 - 130	30
Methylene chloride	ND	5.0	112	112	0.0	97	97	0.0	70 - 130	30
Naphthalene	ND	5.0	108	114	5.4	102	109	6.6	70 - 130	30
n-Butylbenzene	ND	1.0	119	116	2.6	114	114	0.0	70 - 130	30
n-Propylbenzene	ND	1.0	115	111	3.5	107	108	0.9	70 - 130	30
o-Xylene	ND	2.0	125	122	2.4	116	116	0.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	124	120	3.3	115	117	1.7	70 - 130	30
sec-Butylbenzene	ND	1.0	130	125	3.9	119	121	1.7	70 - 130	30
Styrene	ND	5.0	123	122	0.8	117	118	0.9	70 - 130	30
tert-butyl alcohol	ND	100	129	119	8.1	112	110	1.8	70 - 130	30
tert-Butylbenzene	ND	1.0	126	121	4.0	114	116	1.7	70 - 130	30
Tetrachloroethene	ND	5.0	122	117	4.2	114	115	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	115	118	2.6	108	107	0.9	70 - 130	30
Toluene	ND	1.0	121	118	2.5	113	113	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	125	122	2.4	108	110	1.8	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	118	119	0.8	109	110	0.9	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	116	119	2.6	110	111	0.9	70 - 130	30
Trichloroethene	ND	5.0	123	119	3.3	116	116	0.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	125	118	5.8	31	31	0.0	70 - 130	30 m
Trichlorotrifluoroethane	ND	5.0	127	119	6.5	83	85	2.4	70 - 130	30
Vinyl chloride	ND	5.0	122	115	5.9	114	114	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	99	101	2.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	96	%	102	101	1.0	101	100	1.0	70 - 130	30
% Dibromofluoromethane	101	%	98	100	2.0	98	99	1.0	70 - 130	30
% Toluene-d8	99	%	99	100	1.0	99	100	1.0	70 - 130	30

QA/QC Batch 328948 (ug/Kg), QC Sample No: BK34069 2X (BK34071, BK34072, BK34073, BK34074, BK34075, BK34076, BK34077, BK34078)

Pesticides - Soil

4,4' -DDD	ND	1.7	68	79	15.0	94	72	26.5	30 - 150	30
4,4' -DDE	ND	1.7	69	78	12.2	80	63	23.8	40 - 140	30
4,4' -DDT	ND	1.7	67	81	18.9	76	57	28.6	30 - 150	30
a-BHC	ND	1.0	67	79	16.4	76	62	20.3	30 - 150	30
a-Chlordane	ND	3.3	67	77	13.9	99	74	28.9	30 - 150	30
Aldrin	ND	1.0	65	77	16.9	72	60	18.2	40 - 140	30
b-BHC	ND	1.0	70	77	9.5	79	66	17.9	30 - 150	30
Chlordane	ND	33	81	85	4.8	94	76	21.2	30 - 150	30
d-BHC	ND	3.3	59	68	14.2	69	58	17.3	30 - 150	30
Dieldrin	ND	1.0	77	83	7.5	108	73	38.7	40 - 140	30 r
Endosulfan I	ND	3.3	72	82	13.0	84	68	21.1	30 - 150	30
Endosulfan II	ND	3.3	69	80	14.8	84	68	21.1	30 - 150	30
Endosulfan sulfate	ND	3.3	63	71	11.9	101	65	43.4	40 - 140	30 r

## QA/QC Data

SDG I.D.: GBK34071

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Endrin	ND	3.3	71	80	11.9	85	71	17.9	40 - 140	30
Endrin aldehyde	ND	3.3	71	80	11.9	114	68	50.5	30 - 150	30
Endrin ketone	ND	3.3	74	82	10.3	84	73	14.0	30 - 150	30
g-BHC	ND	1.0	71	82	14.4	77	66	15.4	40 - 140	30
g-Chlordane	ND	3.3	81	85	4.8	94	76	21.2	40 - 140	30
Heptachlor	ND	3.3	69	80	14.8	74	63	16.1	40 - 140	30
Heptachlor epoxide	ND	3.3	70	81	14.6	79	63	22.5	30 - 150	30
Methoxychlor	ND	3.3	80	89	10.7	95	79	18.4	30 - 150	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	30 - 150	30
% DCBP	98	%	87	93	6.7	91	81	11.6	30 - 150	30
% TCMX	77	%	69	69	0.0	68	53	24.8	30 - 150	30

QA/QC Batch 328924 (ug/Kg), QC Sample No: BK34069 2X (BK34071, BK34072, BK34073, BK34074, BK34075, BK34076, BK34077, BK34078)

### Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	90	97	7.5	87	92	5.6	30 - 120	30
PCB-1221	ND	33							30 - 150	30
PCB-1232	ND	33							30 - 150	30
PCB-1242	ND	33							30 - 150	30
PCB-1248	ND	33							30 - 150	30
PCB-1254	ND	33							30 - 150	30
PCB-1260	ND	33	100	104	3.9	99	104	4.9	30 - 150	30
PCB-1262	ND	33							30 - 150	30
PCB-1268	ND	33							30 - 150	30
% DCBP (Surrogate Rec)	100	%	116	119	2.6	112	117	4.4	30 - 150	20
% TCMX (Surrogate Rec)	85	%	92	100	8.3	87	91	4.5	30 - 150	20

QA/QC Batch 328923 (ug/kg), QC Sample No: BK34069 (BK34071, BK34072, BK34073, BK34074, BK34075, BK34076, BK34077, BK34078)

### Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	74	71	4.1	81	74	9.0	30 - 130	30
1,2,4-Trichlorobenzene	ND	230	70	69	1.4	74	72	2.7	30 - 130	30
1,2-Dichlorobenzene	ND	180	64	64	0.0	72	62	14.9	30 - 130	30
1,2-Diphenylhydrazine	ND	230	82	77	6.3	85	80	6.1	30 - 130	30
1,3-Dichlorobenzene	ND	230	61	60	1.7	66	59	11.2	30 - 130	30
1,4-Dichlorobenzene	ND	230	61	61	0.0	66	59	11.2	30 - 130	30
2,4,5-Trichlorophenol	ND	230	89	87	2.3	85	82	3.6	30 - 130	30
2,4,6-Trichlorophenol	ND	130	89	87	2.3	83	81	2.4	30 - 130	30
2,4-Dichlorophenol	ND	130	85	80	6.1	85	79	7.3	30 - 130	30
2,4-Dimethylphenol	ND	230	76	78	2.6	74	72	2.7	30 - 130	30
2,4-Dinitrophenol	ND	230	<10	<10	NC	35	27	25.8	30 - 130	30
2,4-Dinitrotoluene	ND	130	91	90	1.1	94	92	2.2	30 - 130	30
2,6-Dinitrotoluene	ND	130	94	89	5.5	96	86	11.0	30 - 130	30
2-Chloronaphthalene	ND	230	79	78	1.3	82	79	3.7	30 - 130	30
2-Chlorophenol	ND	230	76	75	1.3	89	72	21.1	30 - 130	30
2-Methylnaphthalene	ND	230	74	74	0.0	82	76	7.6	30 - 130	30
2-Methylphenol (o-cresol)	ND	230	80	79	1.3	92	77	17.8	30 - 130	30
2-Nitroaniline	ND	330	87	82	5.9	95	87	8.8	30 - 130	30
2-Nitrophenol	ND	230	82	79	3.7	87	78	10.9	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	230	88	83	5.8	105	82	24.6	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	77	77	0.0	74	76	2.7	30 - 130	30
3-Nitroaniline	ND	330	81	80	1.2	84	82	2.4	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	230	21	17	21.1	56	47	17.5	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	89	86	3.4	92	89	3.3	30 - 130	30

QA/QC Data

SDG I.D.: GBK34071

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chloro-3-methylphenol	ND	230	94	88	6.6	99	92	7.3	30 - 130	30	
4-Chloroaniline	ND	230	82	81	1.2	85	79	7.3	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	88	85	3.5	105	84	22.2	30 - 130	30	
4-Nitroaniline	ND	230	87	88	1.1	92	88	4.4	30 - 130	30	
4-Nitrophenol	ND	230	90	88	2.2	91	84	8.0	30 - 130	30	
Acenaphthene	ND	230	84	80	4.9	87	80	8.4	30 - 130	30	
Acenaphthylene	ND	130	83	79	4.9	87	80	8.4	30 - 130	30	
Acetophenone	ND	230	72	73	1.4	87	71	20.3	30 - 130	30	
Aniline	ND	330	63	61	3.2	74	61	19.3	30 - 130	30	
Anthracene	ND	230	92	87	5.6	94	88	6.6	30 - 130	30	
Benz(a)anthracene	ND	230	90	86	4.5	99	97	2.0	30 - 130	30	
Benzidine	ND	330	43	46	6.7	13	16	20.7	30 - 130	30	m
Benzo(a)pyrene	ND	130	86	82	4.8	87	88	1.1	30 - 130	30	
Benzo(b)fluoranthene	ND	160	90	83	8.1	93	89	4.4	30 - 130	30	
Benzo(ghi)perylene	ND	230	90	86	4.5	91	89	2.2	30 - 130	30	
Benzo(k)fluoranthene	ND	230	91	87	4.5	97	91	6.4	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	<10	<10	NC	30 - 130	30	l,m
Benzyl butyl phthalate	ND	230	94	89	5.5	103	98	5.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	78	78	0.0	85	80	6.1	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	65	71	8.8	78	66	16.7	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	59	57	3.4	62	54	13.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	96	93	3.2	106	103	2.9	30 - 130	30	
Carbazole	ND	330	92	84	9.1	91	87	4.5	30 - 130	30	
Chrysene	ND	230	92	92	0.0	95	95	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	89	84	5.8	88	86	2.3	30 - 130	30	
Dibenzofuran	ND	230	83	82	1.2	86	83	3.6	30 - 130	30	
Diethyl phthalate	ND	230	90	89	1.1	94	87	7.7	30 - 130	30	
Dimethylphthalate	ND	230	88	85	3.5	90	85	5.7	30 - 130	30	
Di-n-butylphthalate	ND	230	99	90	9.5	112	93	18.5	30 - 130	30	
Di-n-octylphthalate	ND	230	93	87	6.7	101	93	8.2	30 - 130	30	
Fluoranthene	ND	230	93	87	6.7	102	88	14.7	30 - 130	30	
Fluorene	ND	230	90	85	5.7	103	84	20.3	30 - 130	30	
Hexachlorobenzene	ND	130	90	86	4.5	92	89	3.3	30 - 130	30	
Hexachlorobutadiene	ND	230	67	66	1.5	71	68	4.3	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	71	69	2.9	77	70	9.5	30 - 130	30	
Hexachloroethane	ND	130	62	58	6.7	67	60	11.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	85	82	3.6	88	86	2.3	30 - 130	30	
Isophorone	ND	130	75	74	1.3	81	76	6.4	30 - 130	30	
Naphthalene	ND	230	71	71	0.0	75	73	2.7	30 - 130	30	
Nitrobenzene	ND	130	77	74	4.0	95	77	20.9	30 - 130	30	
N-Nitrosodimethylamine	ND	230	64	64	0.0	68	68	0.0	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	81	80	1.2	98	77	24.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	89	87	2.3	89	85	4.6	30 - 130	30	
Pentachloronitrobenzene	ND	230	90	85	5.7	92	87	5.6	30 - 130	30	
Pentachlorophenol	ND	230	69	68	1.5	57	54	5.4	30 - 130	30	
Phenanthrene	ND	130	90	85	5.7	94	88	6.6	30 - 130	30	
Phenol	ND	230	79	79	0.0	96	77	22.0	30 - 130	30	m
Pyrene	ND	230	94	87	7.7	103	90	13.5	30 - 130	30	
Pyridine	ND	230	44	43	2.3	40	46	14.0	30 - 130	30	
% 2,4,6-Tribromophenol	61	%	88	82	7.1	79	77	2.6	30 - 130	30	
% 2-Fluorobiphenyl	69	%	75	74	1.3	78	74	5.3	30 - 130	30	
% 2-Fluorophenol	57	%	71	68	4.3	88	67	27.1	30 - 130	30	
% Nitrobenzene-d5	61	%	74	69	7.0	88	71	21.4	30 - 130	30	

## QA/QC Data

SDG I.D.: GBK34071

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Phenol-d5	63	%	78	75	3.9	92	73	23.0	30 - 130	30
% Terphenyl-d14	74	%	92	83	10.3	98	82	17.8	30 - 130	30

QA/QC Batch 329212 (ug/kg), QC Sample No: BK34070 (BK34073 (5000X) , BK34074, BK34075 (50X) , BK34076 (50X) , BK34077 (1X, 50X) , BK34078)

### Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	118	116	1.7	119	121	1.7	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	114	111	2.7	121	125	3.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	120	121	0.8	124	126	1.6	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	112	113	0.9	112	112	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	114	112	1.8	119	121	1.7	70 - 130	30
1,1-Dichloroethene	ND	5.0	119	113	5.2	122	127	4.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	121	116	4.2	122	124	1.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	117	117	0.0	88	84	4.7	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	112	112	0.0	122	126	3.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	120	118	1.7	87	86	1.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	116	110	5.3	104	107	2.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	113	116	2.6	115	116	0.9	70 - 130	30
1,2-Dibromoethane	ND	5.0	118	119	0.8	118	119	0.8	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	115	113	1.8	108	110	1.8	70 - 130	30
1,2-Dichloroethane	ND	5.0	115	115	0.0	120	120	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	113	113	0.0	116	116	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	121	115	5.1	114	119	4.3	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	119	114	4.3	109	112	2.7	70 - 130	30
1,3-Dichloropropane	ND	5.0	118	117	0.9	119	119	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	117	113	3.5	106	109	2.8	70 - 130	30
1,4-dioxane	ND	100	116	120	3.4	126	125	0.8	70 - 130	30
2,2-Dichloropropane	ND	5.0	117	113	3.5	119	121	1.7	70 - 130	30
2-Chlorotoluene	ND	5.0	117	114	2.6	115	120	4.3	70 - 130	30
2-Hexanone	ND	25	108	111	2.7	90	86	4.5	70 - 130	30
2-Isopropyltoluene	ND	5.0	122	116	5.0	117	120	2.5	70 - 130	30
4-Chlorotoluene	ND	5.0	118	113	4.3	111	115	3.5	70 - 130	30
4-Methyl-2-pentanone	ND	25	109	111	1.8	101	97	4.0	70 - 130	30
Acetone	ND	10	78	81	3.8	91	93	2.2	70 - 130	30
Acrolein	ND	25	124	130	4.7	57	51	11.1	70 - 130	30 m
Acrylonitrile	ND	5.0	117	120	2.5	118	118	0.0	70 - 130	30
Benzene	ND	1.0	117	114	2.6	118	121	2.5	70 - 130	30
Bromobenzene	ND	5.0	116	114	1.7	116	118	1.7	70 - 130	30
Bromochloromethane	ND	5.0	113	114	0.9	114	116	1.7	70 - 130	30
Bromodichloromethane	ND	5.0	119	118	0.8	121	122	0.8	70 - 130	30
Bromoform	ND	5.0	120	122	1.7	118	119	0.8	70 - 130	30
Bromomethane	ND	5.0	112	114	1.8	120	122	1.7	70 - 130	30
Carbon Disulfide	ND	5.0	123	119	3.3	121	127	4.8	70 - 130	30
Carbon tetrachloride	ND	5.0	117	112	4.4	124	124	0.0	70 - 130	30
Chlorobenzene	ND	5.0	116	112	3.5	112	115	2.6	70 - 130	30
Chloroethane	ND	5.0	118	113	4.3	120	125	4.1	70 - 130	30
Chloroform	ND	5.0	112	111	0.9	116	120	3.4	70 - 130	30
Chloromethane	ND	5.0	117	113	3.5	116	120	3.4	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	111	113	1.8	115	115	0.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	117	116	0.9	113	113	0.0	70 - 130	30
Dibromochloromethane	ND	3.0	121	120	0.8	120	122	1.7	70 - 130	30
Dibromomethane	ND	5.0	114	115	0.9	116	116	0.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	131	124	5.5	135	140	3.6	70 - 130	30 l,m



QA/QC Data

SDG I.D.: GBK34071

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Ethylbenzene	ND	1.0	120	115	4.3	115	118	2.6	70 - 130	30
Hexachlorobutadiene	ND	5.0	124	118	5.0	86	89	3.4	70 - 130	30
Isopropylbenzene	ND	1.0	121	115	5.1	120	125	4.1	70 - 130	30
m&p-Xylene	ND	2.0	119	114	4.3	112	113	0.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	99	99	0.0	94	93	1.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	115	115	0.0	119	119	0.0	70 - 130	30
Methylene chloride	ND	5.0	110	108	1.8	146	162	10.4	70 - 130	30 m
Naphthalene	ND	5.0	116	118	1.7	91	87	4.5	70 - 130	30
n-Butylbenzene	ND	1.0	123	116	5.9	100	103	3.0	70 - 130	30
n-Propylbenzene	ND	1.0	114	108	5.4	109	112	2.7	70 - 130	30
o-Xylene	ND	2.0	121	118	2.5	115	118	2.6	70 - 130	30
p-Isopropyltoluene	ND	1.0	123	117	5.0	110	114	3.6	70 - 130	30
sec-Butylbenzene	ND	1.0	124	118	5.0	118	122	3.3	70 - 130	30
Styrene	ND	5.0	122	119	2.5	113	114	0.9	70 - 130	30
tert-butyl alcohol	ND	100	118	118	0.0	127	127	0.0	70 - 130	30
tert-Butylbenzene	ND	1.0	119	114	4.3	119	123	3.3	70 - 130	30
Tetrachloroethene	ND	5.0	117	112	4.4	115	117	1.7	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	112	116	3.5	116	116	0.0	70 - 130	30
Toluene	ND	1.0	116	113	2.6	114	116	1.7	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	120	116	3.4	121	125	3.3	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	117	116	0.9	114	113	0.9	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	126	127	0.8	121	123	1.6	70 - 130	30
Trichloroethene	ND	5.0	118	113	4.3	118	121	2.5	70 - 130	30
Trichlorofluoromethane	ND	5.0	114	109	4.5	121	128	5.6	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	118	112	5.2	124	127	2.4	70 - 130	30
Vinyl chloride	ND	5.0	123	117	5.0	122	128	4.8	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	95	%	101	102	1.0	99	99	0.0	70 - 130	30
% Dibromofluoromethane	98	%	100	98	2.0	101	101	0.0	70 - 130	30
% Toluene-d8	99	%	100	100	0.0	99	99	0.0	70 - 130	30

QA/QC Batch 329263 (ug/kg), QC Sample No: BK34670 (BK34075 (100X) )

Volatiles - Soil

Naphthalene	ND	5.0	104	116	10.9	87	83	4.7	70 - 130	30
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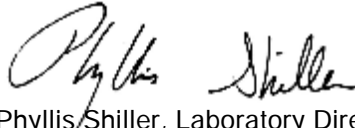
l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 February 05, 2016

## Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

GBK34071 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK34071	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	98.2	0.8	63	63		mg/Kg
BK34073	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	20	20		ug/Kg
BK34073	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	3600	210	210		ug/Kg
BK34073	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential Restricted	ND	3600	900	900		ug/Kg
BK34073	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	20	20		ug/Kg
BK34073	\$8260MADPR	1,1-Dichloroethene	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	330	330		ug/Kg
BK34073	\$8260MADPR	1,1-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	330	330		ug/Kg
BK34073	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	ND	36000	50	50		ug/Kg
BK34073	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	36000	50	50		ug/Kg
BK34073	\$8260MADPR	Methylene chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	50	50		ug/Kg
BK34073	\$8260MADPR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	50	50		ug/Kg
BK34073	\$8260MADPR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	190	190		ug/Kg
BK34073	\$8260MADPR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	190	190		ug/Kg
BK34073	\$8260MADPR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	270	270		ug/Kg
BK34073	\$8260MADPR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	270	270		ug/Kg
BK34073	\$8260MADPR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	250	250		ug/Kg
BK34073	\$8260MADPR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	250	250		ug/Kg
BK34073	\$8260MADPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Ground Water Protection	ND	21000	120	120		ug/Kg
BK34073	\$8260MADPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	21000	120	120		ug/Kg
BK34073	\$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	60	60		ug/Kg
BK34073	\$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Residential	ND	3600	2900	2900		ug/Kg
BK34073	\$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	60	60		ug/Kg
BK34073	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	3600	20	20		ug/Kg
BK34073	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Residential	ND	3600	2300	2300		ug/Kg
BK34073	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Residential Restricted	ND	3600	3100	3100		ug/Kg
BK34073	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3600	20	20		ug/Kg
BK34073	\$8260MADPR	Ethylbenzene	NY / 375-6.8 Volatiles / Ground Water Protection	31000	3600	1000	1000		ug/Kg
BK34073	\$8260MADPR	Ethylbenzene	NY / 375-6.8 Volatiles / Residential	31000	3600	30000	30000		ug/Kg
BK34073	\$8260MADPR	Ethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	31000	3600	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	9600	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	9600	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	9600	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9600	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	10000	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	10000	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	10000	670	3900	3900		ug/Kg
BK34073	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	10000	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	7000	670	1700	1700		ug/Kg
BK34073	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	7000	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	7000	670	1000	1000		ug/Kg
BK34073	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7000	670	1000	1000		ug/Kg

## Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

GBK34071 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK34073	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	6500	670	1700	1700	1700	ug/Kg
BK34073	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	6500	670	1000	1000	1000	ug/Kg
BK34073	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	6500	670	3900	3900	3900	ug/Kg
BK34073	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6500	670	800	800	800	ug/Kg
BK34073	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	9000	670	1000	1000	1000	ug/Kg
BK34073	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	9000	670	1000	1000	1000	ug/Kg
BK34073	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9000	670	1000	1000	1000	ug/Kg
BK34073	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	4600	670	500	500	500	ug/Kg
BK34073	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	4600	670	500	500	500	ug/Kg
BK34073	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4600	670	500	500	500	ug/Kg
BK34073	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	910	670	330	330	330	ug/Kg
BK34073	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	910	670	330	330	330	ug/Kg
BK34073	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	910	670	330	330	330	ug/Kg
BK34073	\$DIOX_SM	1,4-dioxane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	71000	100	100	100	ug/kg
BK34073	\$DIOX_SM	1,4-dioxane	NY / 375-6.8 Volatiles / Residential	ND	71000	9800	9800	9800	ug/kg
BK34073	\$DIOX_SM	1,4-dioxane	NY / 375-6.8 Volatiles / Residential Restricted	ND	71000	13000	13000	13000	ug/kg
BK34073	\$DIOX_SM	1,4-dioxane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	71000	100	100	100	ug/kg
BK34073	\$PESTSMDPR	a-BHC	NY / 375-6.8 PCBs/Pesticides / Ground Water Protection	ND	23	20	20	20	ug/Kg
BK34073	\$PESTSMDPR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Ground Water Protection	ND	220	100	100	100	ug/Kg
BK34073	\$PESTSMDPR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Residential	ND	220	39	39	39	ug/Kg
BK34073	\$PESTSMDPR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Residential	ND	23	19	19	19	ug/Kg
BK34073	\$PESTSMDPR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Residential Restricted	ND	220	200	200	200	ug/Kg
BK34073	\$PESTSMDPR	d-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	45	40	40	40	ug/Kg
BK34073	\$PESTSMDPR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	27	3.3	3.3	3.3	ug/Kg
BK34073	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	27	3.3	3.3	3.3	ug/Kg
BK34073	\$PESTSMDPR	a-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	23	20	20	20	ug/Kg
BK34073	\$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	40	3.3	3.3	3.3	ug/Kg
BK34073	\$PESTSMDPR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	23	5	5	5	ug/Kg
BK34073	\$PESTSMDPR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	220	5	5	5	ug/Kg
BK34073	\$PESTSMDPR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	55	14	14	14	ug/Kg
BK34073	\$PESTSMDPR	Heptachlor	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	45	42	42	42	ug/Kg
BK34073	\$PESTSMDPR	b-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	65	36	36	36	ug/Kg
BK34073	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	26.8	0.9	16	16	16	mg/Kg
BK34073	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	26.8	0.9	16	16	16	mg/Kg
BK34073	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	26.8	0.9	16	16	16	mg/Kg
BK34073	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	26.8	0.9	13	13	13	mg/Kg
BK34073	CU-SM	Copper	NY / 375-6.8 Metals / Residential	340	4.7	270	270	270	mg/kg
BK34073	CU-SM	Copper	NY / 375-6.8 Metals / Residential Restricted	340	4.7	270	270	270	mg/kg
BK34073	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	340	4.7	50	50	50	mg/kg
BK34073	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	1.50	0.04	0.73	0.73	0.73	mg/Kg
BK34073	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.50	0.04	0.81	0.81	0.81	mg/Kg
BK34073	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.50	0.04	0.81	0.81	0.81	mg/Kg

## Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

GBK34071 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK34073	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.50	0.04	0.18	0.18		mg/Kg
BK34073	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	40.5	0.47	30	30		mg/Kg
BK34073	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	609	9.4	450	450		mg/Kg
BK34073	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	609	9.4	400	400		mg/Kg
BK34073	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	609	9.4	400	400		mg/Kg
BK34073	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	609	9.4	63	63		mg/Kg
BK34073	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	413	9.4	109	109		mg/Kg
BK34075	\$8260MADPR	Ethylbenzene	NY / 375-6.8 Volatiles / Ground Water Protection	2700	280	1000	1000		ug/Kg
BK34075	\$8260MADPR	Ethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	2700	280	1000	1000		ug/Kg
BK34075	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.40	0.03	0.18	0.18		mg/Kg
BK34075	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	476	7.4	450	450		mg/Kg
BK34075	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	476	7.4	400	400		mg/Kg
BK34075	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	476	7.4	400	400		mg/Kg
BK34075	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	476	7.4	63	63		mg/Kg
BK34075	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	148	7.4	109	109		mg/Kg
BK34076	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	74.3	0.7	63	63		mg/Kg
BK34076	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	516	6.8	109	109		mg/Kg
BK34077	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2100	240	1700	1700		ug/Kg
BK34077	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2100	240	1700	1700		ug/Kg
BK34077	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2600	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2400	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1400	240	500	500		ug/Kg
BK34077	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2400	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2400	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2600	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2100	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2100	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	240	500	500		ug/Kg
BK34077	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2100	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2400	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2400	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	240	800	800		ug/Kg
BK34077	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	240	1000	1000		ug/Kg
BK34077	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	240	500	500		ug/Kg
BK34077	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	240	1000	1000		ug/Kg
BK34077	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	2.74	0.27	0.73	0.73		mg/Kg
BK34077	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	2.74	0.27	0.81	0.81		mg/Kg
BK34077	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	2.74	0.27	0.81	0.81		mg/Kg

**Sample Criteria Exceedences Report**

Criteria: NY: 375, 375GWP, 375RRS, 375RS

**GBK34071 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK34077	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	2.74	0.27	0.18	0.18	mg/Kg
BK34077	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	90.2	0.7	63	63	mg/Kg
BK34077	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	133	7.1	109	109	mg/Kg
BK34078	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	6.38	0.30	0.73	0.73	mg/Kg
BK34078	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	6.38	0.30	0.81	0.81	mg/Kg
BK34078	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	6.38	0.30	0.81	0.81	mg/Kg
BK34078	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	6.38	0.30	0.18	0.18	mg/Kg
BK34078	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	92.2	7.3	63	63	mg/Kg
BK34078	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	147	7.3	109	109	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# NY Temperature Narration

February 05, 2016

SDG I.D.: GBK34071

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)



**NY/NJ CHAIN OF CUSTODY RECORD**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Coolant:  IPK  ICE  No  
 Cooler:  Yes  No  
 Temp 4 °C Pg 1 of 1  
 Contact Options:

Fax: \_\_\_\_\_  
 Phone: 631-504-6000  
 Email: File

Customer: Environmental Business Consultants  
 Address: 1808 Middle Country Road  
 Ridge, NY 11961  
 Project: 101 Lincoln Ave Bronx NY  
 Report to: Environmental Business Consultants  
 Invoice to: Environmental Business Consultants  
 Project P.O.: \_\_\_\_\_

This section **MUST** be completed with **Bottle Quantities.**

Sampler's Signature	Client Sample - Information - Identification	Date	Analysis Request
<u>Gary Swirson</u>	<u>1581 12-14</u>	<u>12-7-15</u>	<u>X</u>
	<u>1582 12-14</u>	<u>11:30</u>	<u>X</u>
	<u>1586 12-14</u>	<u>12:30</u>	<u>X</u>
	<u>1587 12-14</u>	<u>13:10</u>	<u>X</u>
	<u>1589 12-14</u>	<u>13:40</u>	<u>X</u>
	<u>1581 0-2</u>	<u>11:00</u>	<u>X</u>
	<u>1582 0-2</u>	<u>11:20</u>	<u>X</u>
	<u>1587 0-2</u>	<u>13:00</u>	<u>X</u>

Matrix Code:  
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe  
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY: SAMPLE #

Relinquished by: [Signature] Date: 12-8-15 Time: 10:30  
 Accepted by: [Signature] Date: 12-8-15 Time: 10:01

Comments, Special Requirements or Regulations:

Turnaround:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 5 Days  
 10 Days  
 Other  
 \*SURCHARGE APPLIES

Res. Criteria  
 Res. Criteria  
 Non-Res. Criteria  
 Impact to GW Soil Cleanup Criteria  
 GW Criteria

NY375 Unrestricted Use Soil  
 NY375 Residential Soil  
 Restricted/Residential Commercial  
 Industrial

Phoenix Std Report  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 NJ Hazsite EDD  
 NY EZ EDD (ASP)  
 Other

Data Package  
 NJ Reduced Deliv.\*  
 NY Enhanced (ASP B)\*  
 Other

State where samples were collected: NY



Thursday, January 14, 2016

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 101 LINCOLN AVE., BROOKLYN  
Sample ID#s: BK33362 - BK33378

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301





**Environmental Laboratories, Inc.**  
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**NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE**

**Client: Environmental Business Consultants**  
**Project: 101 LINCOLN AVE., BROOKLYN**  
**Laboratory Project: GBK33362**



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040  
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# NY Analytical Services Protocol Format

January 14, 2016

SDG I.D.: GBK33362

Environmental Business Consultants 101 LINCOLN AVE., BROOKLYN

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## Methodology Summary

### **Volatiles**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update V, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

### **Accelerated Solvent Extraction (ASE)**

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update III, Method 3545A.

### **Mercury Prep**

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 7471B.

### **Metals**

ICP :

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010C.

Mercury:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471

### **Pesticides:**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8081B.

### **Polychlorinated Biphenyls (PCBs):**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8082A.

### **Semivolatile Organic Compounds**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

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# NY Analytical Services Protocol Format

January 14, 2016

SDG I.D.: GBK33362

Environmental Business Consultants 101 LINCOLN AVE., BROOKLYN

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## Sample Id Cross Reference

Client Id	Lab Id	Matrix
15 SB 3 0-2	BK33362	SOIL
15 SB 3 12-14	BK33363	SOIL
15 SB 4 0-2	BK33364	SOIL
15 SB 4 12-14	BK33365	SOIL
15 SB 5 0-2	BK33366	SOIL
15 SB 5 12-14	BK33367	SOIL
15 SB 6 0-2	BK33368	SOIL
15 SB 8 0-2	BK33369	SOIL
15 SB 8 12-14	BK33370	SOIL
15 SB 9 0-2	BK33371	SOIL
15 SB 10 0-2	BK33372	SOIL
15 SB 10 12-14	BK33373	SOIL
15 SB 11 0-2	BK33374	SOIL
15 SB 11 12-14	BK33375	SOIL
15 SB 12 0-2	BK33376	SOIL
15 SB 12-12-14	BK33377	SOIL
SOIL DUPLICATE	BK33378	SOIL

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## NY Analytical Services Protocol Format

January 14, 2016

SDG I.D.: GBK33362

Environmental Business Consultants 101 LINCOLN AVE., BROOKLYN

### Laboratory Chronicle

The samples in this delivery group were received at 4°C.

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BK33362	1,4-dioxane	12/04/15	12/07/15	12/07/15	HM	Y
BK33362	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33362	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33362	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33362	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33362	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33362	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33362	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33362	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33362	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Semivolatiles	12/04/15	12/07/15	12/07/15	DD	Y
BK33362	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33362	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33362	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33362	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	1,4-dioxane	12/04/15	12/07/15	12/07/15	HM	Y
BK33363	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33363	Antimony	12/04/15	12/07/15	12/09/15	LK	Y



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BK33363	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33363	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33363	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33363	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33363	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33363	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33363	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33363	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Semivolatiles	12/04/15	12/07/15	12/07/15	DD	Y
BK33363	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33363	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33363	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33363	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	1,4-dioxane	12/04/15	12/08/15	12/08/15	H/P	Y
BK33364	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33364	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33364	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Copper	12/04/15	12/07/15	12/09/15	LK	Y



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BK33364	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33364	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33364	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33364	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Pesticides - Soil	12/04/15	12/07/15	12/08/15	CE	Y
BK33364	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y
BK33364	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33364	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33364	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33364	Volatiles	12/04/15	12/08/15	12/08/15	H/P	Y
BK33364	Zinc	12/04/15	12/07/15	12/08/15	LK	Y
BK33365	1,4-dioxane	12/04/15	12/07/15	12/07/15	HM	Y
BK33365	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33365	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33365	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33365	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33365	Manganese	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33365	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Pesticides - Soil	12/04/15	12/07/15	12/08/15	CE	Y
BK33365	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y



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BK33365	Potassium	12/04/15	12/07/15	12/08/15	LK	Y
BK33365	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33365	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33365	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33365	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33365	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	1,4-dioxane	12/04/15	12/07/15	12/07/15	H/P	Y
BK33366	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33366	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33366	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33366	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33366	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33366	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33366	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y
BK33366	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33366	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33366	Volatiles	12/04/15	12/07/15	12/07/15	H/P	Y



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BK33366	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33366	Zinc	12/04/15	12/07/15	12/08/15	LK	Y
BK33367	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y
BK33367	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33367	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33367	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33367	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33367	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33367	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33367	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33367	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33367	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33367	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33367	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33367	Zinc	12/04/15	12/07/15	12/08/15	LK	Y
BK33368	1,4-dioxane	12/04/15	12/07/15	12/07/15	HM	Y
BK33368	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33368	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y





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BK33368	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33368	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33368	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33368	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33368	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33368	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y
BK33368	Potassium	12/04/15	12/07/15	12/08/15	LK	Y
BK33368	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33368	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33368	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33368	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33368	Zinc	12/04/15	12/07/15	12/08/15	LK	Y
BK33369	1,4-dioxane	12/04/15	12/07/15	12/07/15	HM	Y
BK33369	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33369	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33369	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33369	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33369	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y



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BK33369	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33369	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33369	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33369	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33369	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33369	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33369	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33369	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33369	Zinc	12/04/15	12/07/15	12/08/15	LK	Y
BK33370	1,4-dioxane	12/04/15	12/07/15	12/07/15	HM	Y
BK33370	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33370	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33370	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33370	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33370	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33370	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33370	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33370	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33370	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y



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BK33370	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33370	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33370	Volatiles	12/04/15	12/07/15	12/07/15	HM	Y
BK33370	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y
BK33371	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33371	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33371	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33371	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33371	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33371	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33371	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y
BK33371	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33371	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33371	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33371	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33371	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y



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BK33372	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33372	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33372	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33372	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33372	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33372	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33372	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33372	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y
BK33372	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33372	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33372	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33372	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33372	Zinc	12/04/15	12/07/15	12/08/15	LK	Y
BK33373	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y
BK33373	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33373	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Chromium	12/04/15	12/07/15	12/09/15	LK	Y



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BK33373	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33373	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33373	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33373	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33373	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33373	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33373	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33373	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33373	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33373	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33373	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	1,4-dioxane	12/04/15	12/08/15	12/08/15	H/P	Y
BK33374	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33374	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33374	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33374	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33374	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33374	Nickel	12/04/15	12/07/15	12/09/15	LK	Y



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BK33374	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33374	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y
BK33374	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33374	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33374	Volatiles	12/04/15	12/08/15	12/08/15	H/P	Y
BK33374	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33374	Zinc	12/04/15	12/07/15	12/08/15	LK	Y
BK33375	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y
BK33375	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33375	Antimony	12/04/15	12/07/15	12/08/15	LK	Y
BK33375	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33375	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33375	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33375	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33375	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33375	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33375	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33375	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33375	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Thallium	12/04/15	12/07/15	12/09/15	LK	Y



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BK33375	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33375	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33375	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33375	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y
BK33376	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33376	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Calcium	12/04/15	12/07/15	12/08/15	LK	Y
BK33376	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33376	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33376	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33376	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33376	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33376	Polychlorinated Biphenyls	12/04/15	12/07/15	12/09/15	AW	Y
BK33376	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33376	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33376	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33376	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33376	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y
BK33377	Aluminum	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y



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BK33377	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Iron	12/04/15	12/07/15	12/08/15	LK	Y
BK33377	Lead	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Magnesium	12/04/15	12/07/15	12/08/15	LK	Y
BK33377	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33377	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33377	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Pesticides - Soil	12/04/15	12/07/15	12/09/15	CE	Y
BK33377	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33377	Potassium	12/04/15	12/07/15	12/08/15	LK	Y
BK33377	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Semivolatiles	12/04/15	12/07/15	12/08/15	DD	Y
BK33377	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33377	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33377	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33377	Zinc	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	1,4-dioxane	12/04/15	12/08/15	12/08/15	HM	Y
BK33378	Aluminum	12/04/15	12/07/15	12/08/15	LK	Y
BK33378	Antimony	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Arsenic	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Barium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Beryllium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Cadmium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Calcium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Chromium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Cobalt	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Copper	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Iron	12/04/15	12/07/15	12/08/15	LK	Y





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BK33378	Lead	12/04/15	12/07/15	12/08/15	LK	Y
BK33378	Magnesium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Manganese	12/04/15	12/07/15	12/08/15	LK	Y
BK33378	Mercury	12/04/15	12/08/15	12/08/15	RS	Y
BK33378	Nickel	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Pesticides - Soil	12/04/15	12/07/15	12/08/15	CE	Y
BK33378	Polychlorinated Biphenyls	12/04/15	12/07/15	12/08/15	AW	Y
BK33378	Potassium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Selenium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Semivolatiles	12/04/15	12/07/15	12/07/15	DD	Y
BK33378	Silver	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Sodium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Thallium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Vanadium	12/04/15	12/07/15	12/09/15	LK	Y
BK33378	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33378	Volatiles	12/04/15	12/08/15	12/08/15	HM	Y
BK33378	Zinc	12/04/15	12/07/15	12/09/15	LK	Y



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

January 14, 2016

SDG I.D.: GBK33362

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Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.



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**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

8:00  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33362

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 3 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	14900	35	6.9	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	4.0	0.7	0.69	mg/Kg	1	12/09/15	LK	SW6010C
Barium	72.6	N 0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.81	0.28	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	27400	35	32	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	< 0.35	0.35	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	11.8	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	24.8	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Copper	26.1	0.35	0.35	mg/kg	1	12/09/15	LK	SW6010C
Iron	25000	35	35	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.59	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	3200	N 7	2.7	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	16900	35	35	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	629	3.5	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	313	N 7	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	18.8	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Lead	57.5	0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Antimony	< 1.7	1.7	1.7	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	33.0	0.3	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	77.3	0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	89			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	170	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	37	37	ug/Kg	2	12/08/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	90			%	2	12/08/15	AW	30 - 150 %
% TCMX	84			%	2	12/08/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	20	20	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	10	10	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	37	37	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	20	20	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	37	37	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	119			%	2	12/09/15	CE	30 - 150 %
% TCMX	77			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,1,1-Trichloroethane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2-Trichloroethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloroethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloropropene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichloropropane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromoethane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichlorobenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloroethane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloropropane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichlorobenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichloropropane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
1,4-Dichlorobenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
2,2-Dichloropropane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
2-Chlorotoluene	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
2-Hexanone	ND	28	5.6	ug/Kg	1	12/07/15	HM	SW8260C
2-Isopropyltoluene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
4-Chlorotoluene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
4-Methyl-2-pentanone	ND	28	5.6	ug/Kg	1	12/07/15	HM	SW8260C
Acetone	77	S 50	5.6	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	11	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Benzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Bromobenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Bromochloromethane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Bromodichloromethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Bromoform	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Bromomethane	ND	5.6	2.2	ug/Kg	1	12/07/15	HM	SW8260C
Carbon Disulfide	1.4	J 5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Carbon tetrachloride	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Chlorobenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Chloroethane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Chloroform	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Chloromethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Dibromochloromethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Dibromomethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Dichlorodifluoromethane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Ethylbenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Hexachlorobutadiene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Isopropylbenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
m&p-Xylene	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Methyl Ethyl Ketone	18	J 33	5.6	ug/Kg	1	12/07/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Methylene chloride	ND	5.6	5.6	ug/Kg	1	12/07/15	HM	SW8260C
Naphthalene	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
n-Butylbenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.6	1.0	ug/Kg	1	12/07/15	HM	SW8260C
o-Xylene	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
p-Isopropyltoluene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
sec-Butylbenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Styrene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
tert-Butylbenzene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Tetrachloroethene	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	2.8	ug/Kg	1	12/07/15	HM	SW8260C
Toluene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	2.8	ug/Kg	1	12/07/15	HM	SW8260C
Trichloroethene	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorofluoromethane	ND	5.6	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorotrifluoroethane	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Vinyl chloride	ND	5.6	0.56	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	100			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	93			%	1	12/07/15	HM	70 - 130 %
% Dibromofluoromethane	100			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	100	44	ug/kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	100			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	93			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	22	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Acrolein	ND	22	2.8	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	22	0.56	ug/Kg	1	12/07/15	HM	SW8260C
Tert-butyl alcohol	ND	110	22	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	12/07/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	12/07/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	130	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	91	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dinitrophenol	ND	730	260	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	140	ug/Kg	1	12/07/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
2-Chloronaphthalene	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	12/07/15	DD	SW8270D
2-Nitroaniline	ND	730	370	ug/Kg	1	12/07/15	DD	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	12/07/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	12/07/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	730	170	ug/Kg	1	12/07/15	DD	SW8270D
3-Nitroaniline	ND	730	730	ug/Kg	1	12/07/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1800	390	ug/Kg	1	12/07/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	12/07/15	DD	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	12/07/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
4-Nitroaniline	ND	730	120	ug/Kg	1	12/07/15	DD	SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	12/07/15	DD	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Aniline	ND	290	290	ug/Kg	1	12/07/15	DD	SW8270D
Anthracene	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
Benz(a)anthracene	140	J 260	120	ug/Kg	1	12/07/15	DD	SW8270D
Benzidine	ND	730	220	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(a)pyrene	160	J 260	120	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(b)fluoranthene	ND	260	130	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(ghi)perylene	250	J 260	120	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(k)fluoranthene	140	J 260	120	ug/Kg	1	12/07/15	DD	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	12/07/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	95	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	260	99	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Carbazole	ND	1800	280	ug/Kg	1	12/07/15	DD	SW8270D
Chrysene	160	J 260	120	ug/Kg	1	12/07/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Di-n-butylphthalate	ND	260	98	ug/Kg	1	12/07/15	DD	SW8270D
Di-n-octylphthalate	ND	260	95	ug/Kg	1	12/07/15	DD	SW8270D
Fluoranthene	380	260	120	ug/Kg	1	12/07/15	DD	SW8270D
Fluorene	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	200	J 260	120	ug/Kg	1	12/07/15	DD	SW8270D
Isophorone	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	12/07/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	260	130	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	12/07/15	DD	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	12/07/15	DD	SW8270D
Pentachlorophenol	ND	260	140	ug/Kg	1	12/07/15	DD	SW8270D
Phenanthrene	140	J 260	100	ug/Kg	1	12/07/15	DD	SW8270D
Phenol	ND	260	120	ug/Kg	1	12/07/15	DD	SW8270D
Pyrene	270	260	130	ug/Kg	1	12/07/15	DD	SW8270D
Pyridine	ND	260	90	ug/Kg	1	12/07/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	72			%	1	12/07/15	DD	30 - 130 %
% 2-Fluorobiphenyl	65			%	1	12/07/15	DD	30 - 130 %
% 2-Fluorophenol	67			%	1	12/07/15	DD	30 - 130 %
% Nitrobenzene-d5	60			%	1	12/07/15	DD	30 - 130 %
% Phenol-d5	68			%	1	12/07/15	DD	30 - 130 %
% Terphenyl-d14	73			%	1	12/07/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

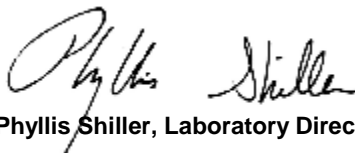
**Pesticide Comment:**

Due to matrix interference caused by the presence of PCBs in the sample, an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

8:20  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33363

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 3 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	10800	41	8.2	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	4.5	0.8	0.82	mg/Kg	1	12/09/15	LK	SW6010C
Barium	59.6	N 0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.41	0.33	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	56900	41	38	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	0.20	B 0.41	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	6.75	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	16.0	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Copper	27.1	0.41	0.41	mg/kg	1	12/09/15	LK	SW6010C
Iron	22400	41	41	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.07	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	2920	N 8	3.2	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	8330	41	41	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	311	4.1	4.1	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	2540	N 8	3.5	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	13.5	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Lead	96.9	0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Antimony	< 2.1	2.1	2.1	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.6	1.6	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.6	1.6	1.6	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	25.8	0.4	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	66.5	0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	81			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	79			%	2	12/08/15	AW	30 - 150 %
% TCMX	80			%	2	12/08/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.4	2.4	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.4	2.4	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.4	2.4	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	41	41	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	41	41	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	86			%	2	12/09/15	CE	30 - 150 %
% TCMX	66			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,1,1-Trichloroethane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2-Trichloroethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloroethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloropropene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichloropropane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromoethane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloroethane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloropropane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichloropropane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
1,4-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
2,2-Dichloropropane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
2-Chlorotoluene	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
2-Hexanone	ND	26	5.2	ug/Kg	1	12/07/15	HM	SW8260C
2-Isopropyltoluene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
4-Chlorotoluene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
4-Methyl-2-pentanone	ND	26	5.2	ug/Kg	1	12/07/15	HM	SW8260C
Acetone	17	JS 50	5.2	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	10	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Benzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Bromobenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Bromochloromethane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Bromodichloromethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Bromoform	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Bromomethane	ND	5.2	2.1	ug/Kg	1	12/07/15	HM	SW8260C
Carbon Disulfide	1.5	J 5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Carbon tetrachloride	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Chlorobenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Chloroethane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Chloroform	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Chloromethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Dibromochloromethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Dibromomethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Dichlorodifluoromethane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Ethylbenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Hexachlorobutadiene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Isopropylbenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
m&p-Xylene	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Methyl Ethyl Ketone	ND	31	5.2	ug/Kg	1	12/07/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Methylene chloride	ND	5.2	5.2	ug/Kg	1	12/07/15	HM	SW8260C
Naphthalene	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
n-Butylbenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.2	0.94	ug/Kg	1	12/07/15	HM	SW8260C
o-Xylene	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
p-Isopropyltoluene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
sec-Butylbenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Styrene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
tert-Butylbenzene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Tetrachloroethene	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	2.6	ug/Kg	1	12/07/15	HM	SW8260C
Toluene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	2.6	ug/Kg	1	12/07/15	HM	SW8260C
Trichloroethene	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorofluoromethane	ND	5.2	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorotrifluoroethane	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Vinyl chloride	ND	5.2	0.52	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	119			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	88			%	1	12/07/15	HM	70 - 130 %
% Dibromofluoromethane	92			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	100	42	ug/kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	119			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	88			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	21	1.0	ug/Kg	1	12/07/15	HM	SW8260C
Acrolein	ND	21	2.6	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	21	0.52	ug/Kg	1	12/07/15	HM	SW8260C
Tert-butyl alcohol	ND	100	21	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	12/07/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
1,2-Dichlorobenzene	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
1,3-Dichlorobenzene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
1,4-Dichlorobenzene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	1	12/07/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dichlorophenol	ND	280	140	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dimethylphenol	ND	280	100	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dinitrophenol	ND	810	280	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dinitrotoluene	ND	280	160	ug/Kg	1	12/07/15	DD	SW8270D
2,6-Dinitrotoluene	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
2-Chloronaphthalene	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
2-Methylnaphthalene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	280	190	ug/Kg	1	12/07/15	DD	SW8270D
2-Nitroaniline	ND	810	410	ug/Kg	1	12/07/15	DD	SW8270D
2-Nitrophenol	ND	280	260	ug/Kg	1	12/07/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	280	160	ug/Kg	1	12/07/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	810	190	ug/Kg	1	12/07/15	DD	SW8270D
3-Nitroaniline	ND	810	810	ug/Kg	1	12/07/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	440	ug/Kg	1	12/07/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	1	12/07/15	DD	SW8270D
4-Chloroaniline	ND	320	190	ug/Kg	1	12/07/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	280	140	ug/Kg	1	12/07/15	DD	SW8270D
4-Nitroaniline	ND	810	140	ug/Kg	1	12/07/15	DD	SW8270D
4-Nitrophenol	ND	400	180	ug/Kg	1	12/07/15	DD	SW8270D
Acenaphthene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
Acenaphthylene	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
Acetophenone	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Aniline	ND	320	320	ug/Kg	1	12/07/15	DD	SW8270D
Anthracene	150	J 280	130	ug/Kg	1	12/07/15	DD	SW8270D
Benz(a)anthracene	220	J 280	140	ug/Kg	1	12/07/15	DD	SW8270D
Benzidine	ND	810	240	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(a)pyrene	200	J 280	130	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(b)fluoranthene	160	J 280	140	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(ghi)perylene	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(k)fluoranthene	140	J 280	130	ug/Kg	1	12/07/15	DD	SW8270D
Benzoic acid	ND	2000	810	ug/Kg	1	12/07/15	DD	SW8270D
Benzyl butyl phthalate	ND	280	100	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
Carbazole	ND	2000	310	ug/Kg	1	12/07/15	DD	SW8270D
Chrysene	220	J 280	140	ug/Kg	1	12/07/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Dibenzofuran	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
Diethyl phthalate	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Dimethylphthalate	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Di-n-butylphthalate	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
Di-n-octylphthalate	ND	280	100	ug/Kg	1	12/07/15	DD	SW8270D
Fluoranthene	650	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Fluorene	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorobenzene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorobutadiene	ND	280	150	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
Hexachloroethane	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Isophorone	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
Naphthalene	ND	280	120	ug/Kg	1	12/07/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	280	140	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodimethylamine	ND	280	110	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	280	160	ug/Kg	1	12/07/15	DD	SW8270D
Pentachloronitrobenzene	ND	280	150	ug/Kg	1	12/07/15	DD	SW8270D
Pentachlorophenol	ND	280	150	ug/Kg	1	12/07/15	DD	SW8270D
Phenanthrene	600	280	120	ug/Kg	1	12/07/15	DD	SW8270D
Phenol	ND	280	130	ug/Kg	1	12/07/15	DD	SW8270D
Pyrene	510	280	140	ug/Kg	1	12/07/15	DD	SW8270D
Pyridine	ND	280	100	ug/Kg	1	12/07/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	62			%	1	12/07/15	DD	30 - 130 %
% 2-Fluorobiphenyl	59			%	1	12/07/15	DD	30 - 130 %
% 2-Fluorophenol	58			%	1	12/07/15	DD	30 - 130 %
% Nitrobenzene-d5	49			%	1	12/07/15	DD	30 - 130 %
% Phenol-d5	59			%	1	12/07/15	DD	30 - 130 %
% Terphenyl-d14	70			%	1	12/07/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

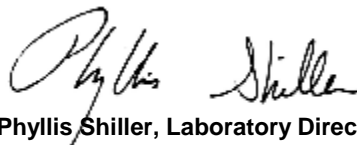
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

8:30  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33364

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 4 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	0.34	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	5780	34	6.8	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	20.8	0.7	0.68	mg/Kg	1	12/09/15	LK	SW6010C
Barium	466	N 0.7	0.34	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.27	0.27	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	28200	34	31	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	0.80	0.34	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	9.95	0.34	0.34	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	15.1	0.34	0.34	mg/Kg	1	12/09/15	LK	SW6010C
Copper	81.2	0.34	0.34	mg/kg	1	12/09/15	LK	SW6010C
Iron	23500	34	34	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.97	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	2210	N 7	2.6	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	3120	3.4	3.4	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	151	3.4	3.4	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	694	N 7	2.9	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	21.8	0.34	0.34	mg/Kg	1	12/09/15	LK	SW6010C
Lead	4750	68	34	mg/Kg	100	12/09/15	LK	SW6010C
Antimony	1.8	1.7	1.7	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	21.3	0.3	0.34	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	384	6.8	3.4	mg/Kg	10	12/08/15	LK	SW6010C
Percent Solid	90			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	36	36	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	95			%	2	12/09/15	AW	30 - 150 %
% TCMX	86			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.2	2.2	ug/Kg	2	12/08/15	CE	SW8081B
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	12/08/15	CE	SW8081B
4,4' -DDT	ND	2.2	2.2	ug/Kg	2	12/08/15	CE	SW8081B
a-BHC	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
a-Chlordane	ND	3.6	3.6	ug/Kg	2	12/08/15	CE	SW8081B
Aldrin	ND	3.6	3.6	ug/Kg	2	12/08/15	CE	SW8081B
b-BHC	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Chlordane	ND	36	36	ug/Kg	2	12/08/15	CE	SW8081B
d-BHC	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Dieldrin	ND	3.6	3.6	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan I	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan II	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan sulfate	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Endrin	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Endrin aldehyde	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Endrin ketone	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
g-BHC	ND	1.4	1.4	ug/Kg	2	12/08/15	CE	SW8081B
g-Chlordane	ND	3.6	3.6	ug/Kg	2	12/08/15	CE	SW8081B
Heptachlor	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Heptachlor epoxide	ND	7.2	7.2	ug/Kg	2	12/08/15	CE	SW8081B
Methoxychlor	ND	36	36	ug/Kg	2	12/08/15	CE	SW8081B
Toxaphene	ND	140	140	ug/Kg	2	12/08/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	86			%	2	12/08/15	CE	30 - 150 %
% TCMX	81			%	2	12/08/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,1-Trichloroethane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,2,2-Tetrachloroethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,2-Trichloroethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,1-Dichloroethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,1-Dichloropropene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,3-Trichlorobenzene	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,3-Trichloropropane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,4-Trichlorobenzene	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,4-Trimethylbenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dibromo-3-chloropropane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dibromoethane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dichlorobenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dichloroethane	ND	5.6	0.56	ug/Kg	1	12/08/15	H/P	SW8260C
1,2-Dichloropropane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,3,5-Trimethylbenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,3-Dichlorobenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
1,3-Dichloropropane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
1,4-Dichlorobenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
2,2-Dichloropropane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
2-Chlorotoluene	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
2-Hexanone	ND	990	200	ug/Kg	50	12/08/15	H/P	SW8260C
2-Isopropyltoluene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
4-Chlorotoluene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
4-Methyl-2-pentanone	ND	990	200	ug/Kg	50	12/08/15	H/P	SW8260C
Acetone	11	JS 50	5.6	ug/Kg	1	12/08/15	H/P	SW8260C
Acrylonitrile	ND	400	40	ug/Kg	50	12/08/15	H/P	SW8260C
Benzene	ND	5.6	0.56	ug/Kg	1	12/08/15	H/P	SW8260C
Bromobenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Bromochloromethane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Bromodichloromethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Bromoform	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Bromomethane	ND	200	79	ug/Kg	50	12/08/15	H/P	SW8260C
Carbon Disulfide	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Carbon tetrachloride	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Chlorobenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Chloroethane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Chloroform	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Chloromethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
cis-1,2-Dichloroethene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
cis-1,3-Dichloropropene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Dibromochloromethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Dibromomethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Dichlorodifluoromethane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Ethylbenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Hexachlorobutadiene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Isopropylbenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
m&p-Xylene	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Methyl Ethyl Ketone	ND	34	5.6	ug/Kg	1	12/08/15	H/P	SW8260C
Methyl t-butyl ether (MTBE)	ND	400	40	ug/Kg	50	12/08/15	H/P	SW8260C
Methylene chloride	ND	5.6	5.6	ug/Kg	1	12/08/15	H/P	SW8260C
Naphthalene	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
n-Butylbenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	200	36	ug/Kg	50	12/08/15	H/P	SW8260C
o-Xylene	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
p-Isopropyltoluene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
sec-Butylbenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Styrene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
tert-Butylbenzene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Tetrachloroethene	44	J 200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Tetrahydrofuran (THF)	ND	400	99	ug/Kg	50	12/08/15	H/P	SW8260C
Toluene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
trans-1,2-Dichloroethene	ND	5.6	0.56	ug/Kg	1	12/08/15	H/P	SW8260C
trans-1,3-Dichloropropene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
trans-1,4-dichloro-2-butene	ND	400	99	ug/Kg	50	12/08/15	H/P	SW8260C
Trichloroethene	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Trichlorofluoromethane	ND	200	40	ug/Kg	50	12/08/15	H/P	SW8260C
Trichlorotrifluoroethane	ND	200	20	ug/Kg	50	12/08/15	H/P	SW8260C
Vinyl chloride	ND	5.6	0.56	ug/Kg	1	12/08/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	H/P	70 - 130 %
% Bromofluorobenzene	95			%	50	12/08/15	H/P	70 - 130 %
% Dibromofluoromethane	99			%	50	12/08/15	H/P	70 - 130 %
% Toluene-d8	97			%	50	12/08/15	H/P	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	100	45	ug/kg	1	12/08/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	H/P	70 - 130 %
% Bromofluorobenzene	95			%	50	12/08/15	H/P	70 - 130 %
% Toluene-d8	97			%	50	12/08/15	H/P	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	790	40	ug/Kg	50	12/08/15	HM	SW8260C
Acrolein	ND	790	99	ug/Kg	50	12/08/15	HM	SW8260C
Acrylonitrile	ND	790	20	ug/Kg	50	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	4000	790	ug/Kg	50	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	91	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	730	260	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	730	370	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	730	170	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	730	730	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1800	390	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	730	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	370	160	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	290	290	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	140	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	730	210	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	130	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	140	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	94	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	260	99	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	1800	280	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	150	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	260	97	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	260	94	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	280	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	140	J 260	100	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	250	J 260	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	260	90	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	40			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	64			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	34			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	60			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	46			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	74			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

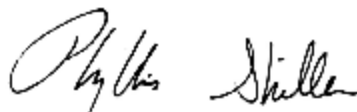
**Volatile Comment:**

Sample exhibited matrix interference in the volatile analysis. Both Low-level vials were analyzed with one or more poor internal standard responses. The high level analysis did not exhibit this interference. Had any compounds been detected in the high level analysis, they would have been reported at that dilution. The low level analysis was reported for some compounds in order to meet the requested reporting criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

8:40  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33365

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 4 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	9560	41	8.2	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	3.0	0.8	0.82	mg/Kg	1	12/09/15	LK	SW6010C
Barium	99.8	N 0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.25	B 0.33	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	91100	41	38	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	< 0.41	0.41	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	8.82	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	18.3	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Copper	22.0	0.41	0.41	mg/kg	1	12/09/15	LK	SW6010C
Iron	17100	41	41	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.43	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	5030	N 82	32	mg/Kg	10	12/08/15	LK	SW6010C
Magnesium	56600	41	41	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	136	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Sodium	2710	N 8	3.5	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	16.2	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Lead	44.2	0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Antimony	< 2.1	2.1	2.1	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.6	1.6	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.6	1.6	1.6	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	22.1	0.4	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	51.6	0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	78			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	42	42	ug/Kg	2	12/09/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	86			%	2	12/09/15	AW	30 - 150 %
% TCMX	80			%	2	12/09/15	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>								
4,4' -DDD	ND	2.5	2.5	ug/Kg	2	12/08/15	CE	SW8081B
4,4' -DDE	ND	2.5	2.5	ug/Kg	2	12/08/15	CE	SW8081B
4,4' -DDT	ND	2.5	2.5	ug/Kg	2	12/08/15	CE	SW8081B
a-BHC	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
a-Chlordane	ND	4.2	4.2	ug/Kg	2	12/08/15	CE	SW8081B
Aldrin	ND	4.2	4.2	ug/Kg	2	12/08/15	CE	SW8081B
b-BHC	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Chlordane	ND	42	42	ug/Kg	2	12/08/15	CE	SW8081B
d-BHC	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Dieldrin	ND	4.2	4.2	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan I	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan II	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan sulfate	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Endrin	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Endrin aldehyde	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Endrin ketone	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
g-BHC	ND	1.7	1.7	ug/Kg	2	12/08/15	CE	SW8081B
g-Chlordane	ND	4.2	4.2	ug/Kg	2	12/08/15	CE	SW8081B
Heptachlor	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Heptachlor epoxide	ND	8.4	8.4	ug/Kg	2	12/08/15	CE	SW8081B
Methoxychlor	ND	42	42	ug/Kg	2	12/08/15	CE	SW8081B
Toxaphene	ND	170	170	ug/Kg	2	12/08/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
% DCBP	77			%	2	12/08/15	CE	30 - 150 %
% TCMX	64			%	2	12/08/15	CE	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,1,1-Trichloroethane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2-Trichloroethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloroethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloropropene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichloropropane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromoethane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichlorobenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloroethane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloropropane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichlorobenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichloropropane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
1,4-Dichlorobenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
2,2-Dichloropropane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
2-Chlorotoluene	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
2-Hexanone	ND	18	3.5	ug/Kg	1	12/07/15	HM	SW8260C
2-Isopropyltoluene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
4-Chlorotoluene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
4-Methyl-2-pentanone	ND	18	3.5	ug/Kg	1	12/07/15	HM	SW8260C
Acetone	6.2	JS 35	3.5	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	7.1	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Benzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Bromobenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Bromochloromethane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Bromodichloromethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Bromoform	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Bromomethane	ND	3.5	1.4	ug/Kg	1	12/07/15	HM	SW8260C
Carbon Disulfide	1.1	J 3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Carbon tetrachloride	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Chlorobenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Chloroethane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Chloroform	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Chloromethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Dibromochloromethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Dibromomethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Dichlorodifluoromethane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Ethylbenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Hexachlorobutadiene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Isopropylbenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
m&p-Xylene	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Methyl Ethyl Ketone	ND	21	3.5	ug/Kg	1	12/07/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.1	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Methylene chloride	ND	3.5	3.5	ug/Kg	1	12/07/15	HM	SW8260C
Naphthalene	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
n-Butylbenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	3.5	0.63	ug/Kg	1	12/07/15	HM	SW8260C
o-Xylene	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
p-Isopropyltoluene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
sec-Butylbenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Styrene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
tert-Butylbenzene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Tetrachloroethene	1.6	J 3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.1	1.8	ug/Kg	1	12/07/15	HM	SW8260C
Toluene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.1	1.8	ug/Kg	1	12/07/15	HM	SW8260C
Trichloroethene	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorofluoromethane	ND	3.5	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorotrifluoroethane	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Vinyl chloride	ND	3.5	0.35	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	93			%	1	12/07/15	HM	70 - 130 %
% Dibromofluoromethane	100			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	71	28	ug/kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	93			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	14	0.71	ug/Kg	1	12/07/15	HM	SW8260C
Acrolein	ND	14	1.8	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	14	0.35	ug/Kg	1	12/07/15	HM	SW8260C
Tert-butyl alcohol	ND	71	14	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	300	150	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	300	230	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	300	150	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	300	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	850	300	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	300	170	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	300	200	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	850	430	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	300	270	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	300	170	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	850	200	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	850	850	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2100	460	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	300	150	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	340	200	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	850	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	420	190	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	340	340	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	850	250	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	ND	300	150	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	2100	850	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	300	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	300	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	2100	320	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	300	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	300	110	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	300	150	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	300	130	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	300	150	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	300	160	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	300	160	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	300	160	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	ND	300	120	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	300	140	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	ND	300	150	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	300	100	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	54			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	49			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	51			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	42			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	49			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	64			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

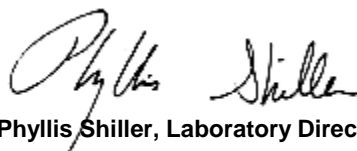
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

9:00  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33366

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 5 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	5940	35	7.0	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	17.2	0.7	0.70	mg/Kg	1	12/09/15	LK	SW6010C
Barium	176 N	0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.47	0.28	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	9860	3.5	3.2	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	1.19	0.35	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	8.20	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	32.1	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Copper	138	0.35	0.35	mg/kg	1	12/09/15	LK	SW6010C
Iron	25300	35	35	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.48	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	1250 N	7	2.7	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	2780	3.5	3.5	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	241	3.5	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	394 N	7	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	26.0	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Lead	388	7.0	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	4.7	1.8	1.8	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	38.1	0.4	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	282	7.0	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Percent Solid	89			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	86			%	2	12/09/15	AW	30 - 150 %
% TCMX	84			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.2	2.2	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	6.5	2.2	2.2	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	14	2.2	2.2	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	37	37	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	37	37	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	69			%	2	12/09/15	CE	30 - 150 %
% TCMX	65			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,1-Trichloroethane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,2,2-Tetrachloroethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,2-Trichloroethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,1-Dichloroethane	ND	5.2	1.0	ug/Kg	1	12/07/15	H/P	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,1-Dichloropropene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,3-Trichlorobenzene	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,3-Trichloropropane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,4-Trichlorobenzene	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,4-Trimethylbenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dibromo-3-chloropropane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dibromoethane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dichlorobenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dichloroethane	ND	5.2	0.52	ug/Kg	1	12/07/15	H/P	SW8260C
1,2-Dichloropropane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,3,5-Trimethylbenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,3-Dichlorobenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
1,3-Dichloropropane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
1,4-Dichlorobenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
2,2-Dichloropropane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
2-Chlorotoluene	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
2-Hexanone	ND	1500	290	ug/Kg	50	12/08/15	H/P	SW8260C
2-Isopropyltoluene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
4-Chlorotoluene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
4-Methyl-2-pentanone	ND	1500	290	ug/Kg	50	12/08/15	H/P	SW8260C
Acetone	11	JS 50	5.2	ug/Kg	1	12/07/15	H/P	SW8260C
Acrylonitrile	ND	590	59	ug/Kg	50	12/08/15	H/P	SW8260C
Benzene	ND	5.2	0.52	ug/Kg	1	12/07/15	H/P	SW8260C
Bromobenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Bromochloromethane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Bromodichloromethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Bromoform	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Bromomethane	ND	290	120	ug/Kg	50	12/08/15	H/P	SW8260C
Carbon Disulfide	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Carbon tetrachloride	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Chlorobenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Chloroethane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Chloroform	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Chloromethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
cis-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	12/07/15	H/P	SW8260C
cis-1,3-Dichloropropene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Dibromochloromethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Dibromomethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Dichlorodifluoromethane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Ethylbenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Hexachlorobutadiene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Isopropylbenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
m&p-Xylene	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Methyl Ethyl Ketone	ND	31	5.2	ug/Kg	1	12/07/15	H/P	SW8260C
Methyl t-butyl ether (MTBE)	ND	590	59	ug/Kg	50	12/08/15	H/P	SW8260C
Methylene chloride	ND	5.2	5.2	ug/Kg	1	12/07/15	H/P	SW8260C
Naphthalene	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
n-Butylbenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	290	53	ug/Kg	50	12/08/15	H/P	SW8260C
o-Xylene	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
p-Isopropyltoluene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
sec-Butylbenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Styrene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
tert-Butylbenzene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Tetrachloroethene	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Tetrahydrofuran (THF)	ND	590	150	ug/Kg	50	12/08/15	H/P	SW8260C
Toluene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
trans-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	12/07/15	H/P	SW8260C
trans-1,3-Dichloropropene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
trans-1,4-dichloro-2-butene	ND	590	150	ug/Kg	50	12/08/15	H/P	SW8260C
Trichloroethene	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Trichlorofluoromethane	ND	290	59	ug/Kg	50	12/08/15	H/P	SW8260C
Trichlorotrifluoroethane	ND	290	29	ug/Kg	50	12/08/15	H/P	SW8260C
Vinyl chloride	ND	5.2	0.52	ug/Kg	1	12/07/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	H/P	70 - 130 %
% Bromofluorobenzene	95			%	50	12/08/15	H/P	70 - 130 %
% Dibromofluoromethane	98			%	50	12/08/15	H/P	70 - 130 %
% Toluene-d8	98			%	50	12/08/15	H/P	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	93	41	ug/kg	1	12/07/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	H/P	70 - 130 %
% Bromofluorobenzene	95			%	50	12/08/15	H/P	70 - 130 %
% Toluene-d8	98			%	50	12/08/15	H/P	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	1200	59	ug/Kg	50	12/08/15	HM	SW8260C
Acrolein	ND	1200	150	ug/Kg	50	12/08/15	HM	SW8260C
Acrylonitrile	ND	1200	29	ug/Kg	50	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	5900	1200	ug/Kg	50	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	90	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	730	260	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	730	370	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	730	170	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	730	730	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1800	390	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	730	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	290	290	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	200	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	1100	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	730	210	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	1200	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	1100	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	640	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	950	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	94	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	260	98	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	1800	280	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	1300	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	170	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	260	97	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	260	94	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	2200	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	740	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	940	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	2100	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	260	90	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	61			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	67			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	48			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	58			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	60			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	75			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

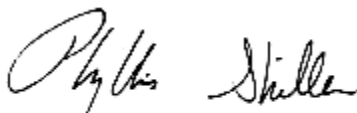
**Volatile Comment:**

Sample exhibited matrix interference in the volatile analysis. Both Low-level vials were analyzed with one or more poor internal standard responses. The high level analysis did not exhibit this interference. Had any compounds been detected in the high level analysis, they would have been reported at that dilution. The low level analysis was reported for some compounds in order to meet the requested reporting criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

9:20  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33367

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 5 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	1.00	0.49	0.49	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	13800	49	9.8	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	21.1	1.0	0.98	mg/Kg	1	12/09/15	LK	SW6010C
Barium	147	N 1.0	0.49	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.65	0.39	0.20	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	6820	4.9	4.5	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	0.77	0.49	0.20	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	11.3	0.49	0.49	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	38.4	0.49	0.49	mg/Kg	1	12/09/15	LK	SW6010C
Copper	121	0.49	0.49	mg/kg	1	12/09/15	LK	SW6010C
Iron	27600	49	49	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	5.64	0.35	0.21	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	4000	N 10	3.8	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	7000	4.9	4.9	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	372	4.9	4.9	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	2560	N 10	4.2	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	28.4	0.49	0.49	mg/Kg	1	12/09/15	LK	SW6010C
Lead	584	9.8	4.9	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	< 2.5	2.5	2.5	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 2.0	2.0	1.7	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 2.0	2.0	2.0	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	34.9	0.5	0.49	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	295	9.8	4.9	mg/Kg	10	12/08/15	LK	SW6010C
Percent Solid	67			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	49	49	ug/Kg	2	12/08/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	98			%	2	12/08/15	AW	30 - 150 %
% TCMX	87			%	2	12/08/15	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>								
4,4' -DDD	ND	2.9	2.9	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.9	2.9	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	4.1	2.9	2.9	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	4.9	4.9	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	4.9	4.9	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	4.9	4.9	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	4.9	4.9	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	2.0	2.0	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	4.9	4.9	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	9.8	9.8	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	4.9	4.9	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	200	200	ug/Kg	2	12/09/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
% DCBP	91			%	2	12/09/15	CE	30 - 150 %
% TCMX	77			%	2	12/09/15	CE	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
2-Hexanone	ND	23	4.6	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	51	S 46	4.6	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	9.1	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	4.6	1.8	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	11	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Isopropylbenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
m&p-Xylene	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	9.5	J 27	4.6	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.1	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	4.6	4.6	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	4.6	0.82	ug/Kg	1	12/08/15	HM	SW8260C
o-Xylene	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Styrene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Tetrachloroethene	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	9.1	2.3	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.1	2.3	ug/Kg	1	12/08/15	HM	SW8260C
Trichloroethene	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	4.6	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	100			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	94			%	1	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	99			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	91	36	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	100			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	94			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	18	0.91	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	18	2.3	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	18	0.46	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	91	18	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	340	170	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	340	150	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	340	160	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	340	150	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	340	150	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	340	270	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	340	160	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	340	170	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	340	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	990	340	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	340	190	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	340	160	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	980	340	150	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	330	230	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	990	500	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	340	310	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	340	190	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	990	230	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	990	990	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2500	530	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	340	170	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	390	230	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	340	170	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	990	160	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	490	220	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	1000	340	150	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	240	J 340	140	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	340	150	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	390	390	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	1800	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	2900	340	170	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	990	290	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	2600	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	1600	340	170	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	1200	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	1900	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	2500	990	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	340	130	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	340	130	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	2500	370	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	3000	340	170	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	300	J 330	160	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	340	150	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	340	130	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	340	130	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	6100	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	930	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	340	180	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	340	150	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	340	150	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1300	340	160	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	640	340	140	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	340	170	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	340	140	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	340	160	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	340	190	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	340	180	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	340	190	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	5400	340	140	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	330	160	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	6300	340	170	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	340	120	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	64			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	57			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	54			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	40			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	58			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	80			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

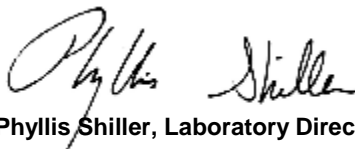
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

9:30  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33368

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 6 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	9040	35	7.0	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	14.3	0.7	0.70	mg/Kg	1	12/09/15	LK	SW6010C
Barium	152 N	0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.45	0.28	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	5660	3.5	3.2	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	0.60	0.35	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	11.8	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	19.5	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Copper	52.4	0.35	0.35	mg/kg	1	12/09/15	LK	SW6010C
Iron	26900	35	35	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.45	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	3210 N	70	27	mg/Kg	10	12/08/15	LK	SW6010C
Magnesium	4250	3.5	3.5	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	318	3.5	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	400 N	7	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	23.4	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Lead	208	7.0	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	< 1.8	1.8	1.8	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	31.7	0.4	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	180	7.0	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Percent Solid	87			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	87			%	2	12/09/15	AW	30 - 150 %
% TCMX	83			%	2	12/09/15	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>								
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	5.1	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	7.4	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
% DCBP	78			%	2	12/09/15	CE	30 - 150 %
% TCMX	66			%	2	12/09/15	CE	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	280	56	ug/Kg	50	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloroethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	280	56	ug/Kg	50	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	280	56	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	280	56	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichlorobenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloropropane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
1,4-Dichlorobenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
2-Chlorotoluene	ND	280	56	ug/Kg	50	12/08/15	HM	SW8260C
2-Hexanone	ND	23	4.6	ug/Kg	1	12/07/15	HM	SW8260C
2-Isopropyltoluene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	12/07/15	HM	SW8260C
Acetone	ND	46	4.6	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	9.2	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Benzene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Bromobenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Bromodichloromethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Bromoform	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Bromomethane	ND	4.6	1.8	ug/Kg	1	12/07/15	HM	SW8260C
Carbon Disulfide	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Carbon tetrachloride	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Chloroethane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Chloroform	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Chloromethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Dibromochloromethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Dibromomethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Hexachlorobutadiene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
Isopropylbenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
m&p-Xylene	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Methyl Ethyl Ketone	ND	28	4.6	ug/Kg	1	12/07/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.2	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Methylene chloride	ND	4.6	4.6	ug/Kg	1	12/07/15	HM	SW8260C
Naphthalene	ND	280	56	ug/Kg	50	12/08/15	HM	SW8260C
n-Butylbenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	280	50	ug/Kg	50	12/08/15	HM	SW8260C
o-Xylene	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
p-Isopropyltoluene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
Styrene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
tert-Butylbenzene	ND	280	28	ug/Kg	50	12/08/15	HM	SW8260C
Tetrachloroethene	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	9.2	2.3	ug/Kg	1	12/07/15	HM	SW8260C
Toluene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	560	140	ug/Kg	50	12/08/15	HM	SW8260C
Trichloroethene	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorofluoromethane	ND	4.6	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	95			%	50	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	106			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	96			%	1	12/07/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	92	37	ug/kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	116			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	73			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	96			%	1	12/07/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	18	0.92	ug/Kg	1	12/07/15	HM	SW8260C
Acrolein	ND	18	2.3	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	18	0.46	ug/Kg	1	12/07/15	HM	SW8260C
Tert-butyl alcohol	ND	92	18	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	210	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	94	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	750	260	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	150	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	120	J 260	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	180	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	750	380	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	260	240	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	750	180	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	750	750	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	410	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	300	180	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	750	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	270	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	300	300	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	590	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	2400	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	750	220	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	2500	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	2300	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	1500	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	2100	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1900	750	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	97	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	1900	290	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	2600	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	370	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	140	J 260	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	260	97	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	4600	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	200	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1600	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	2500	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	4500	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	260	93	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	58			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	73			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	55			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	65			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	65			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	79			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

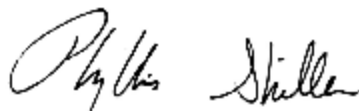
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

**Volatile Comment:**

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

9:50  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33369

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 8 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	7280	38	7.6	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	16.0	0.8	0.76	mg/Kg	1	12/09/15	LK	SW6010C
Barium	189	N 0.8	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.47	0.31	0.15	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	20900	38	35	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	1.14	0.38	0.15	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	8.27	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	21.7	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Copper	86.9	0.38	0.38	mg/kg	1	12/09/15	LK	SW6010C
Iron	23100	38	38	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.48	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	1590	N 8	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	6230	38	38	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	258	3.8	3.8	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	646	N 8	3.3	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	21.4	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Lead	478	7.6	3.8	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	3.5	1.9	1.9	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.5	1.5	1.3	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.5	1.5	1.5	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	38.9	0.4	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	335	7.6	3.8	mg/Kg	10	12/08/15	LK	SW6010C
Percent Solid	86			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

### Polychlorinated Biphenyls

PCB-1016	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	47	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A

### QA/QC Surrogates

% DCBP	111			%	2	12/08/15	AW	30 - 150 %
% TCMX	97			%	2	12/08/15	AW	30 - 150 %

### Pesticides - Soil

4,4' -DDD	53	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	27	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	40	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	4.0	4.0	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	5.0	5.0	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	3.0	3.0	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	6.0	6.0	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B

### QA/QC Surrogates

% DCBP	89			%	2	12/09/15	CE	30 - 150 %
% TCMX	78			%	2	12/09/15	CE	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	270	55	ug/Kg	50	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloroethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloropropene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	270	55	ug/Kg	50	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	270	55	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	270	55	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichlorobenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloropropane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
1,4-Dichlorobenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
2-Chlorotoluene	ND	270	55	ug/Kg	50	12/08/15	HM	SW8260C
2-Hexanone	ND	24	4.9	ug/Kg	1	12/07/15	HM	SW8260C
2-Isopropyltoluene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	24	4.9	ug/Kg	1	12/07/15	HM	SW8260C
Acetone	61	S 49	4.9	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	9.8	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Benzene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Bromobenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
Bromochloromethane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Bromodichloromethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Bromoform	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Bromomethane	ND	4.9	2.0	ug/Kg	1	12/07/15	HM	SW8260C
Carbon Disulfide	1.8	J 4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Carbon tetrachloride	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Chlorobenzene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Chloroethane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Chloroform	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Chloromethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Dibromochloromethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Dibromomethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Ethylbenzene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Hexachlorobutadiene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
Isopropylbenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
m&p-Xylene	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Methyl Ethyl Ketone	8.6	J 29	4.9	ug/Kg	1	12/07/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Methylene chloride	ND	4.9	4.9	ug/Kg	1	12/07/15	HM	SW8260C
Naphthalene	85	J 270	55	ug/Kg	50	12/08/15	HM	SW8260C
n-Butylbenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	270	49	ug/Kg	50	12/08/15	HM	SW8260C
o-Xylene	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
p-Isopropyltoluene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
Styrene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
tert-Butylbenzene	ND	270	27	ug/Kg	50	12/08/15	HM	SW8260C
Tetrachloroethene	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	9.8	2.4	ug/Kg	1	12/07/15	HM	SW8260C
Toluene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	550	140	ug/Kg	50	12/08/15	HM	SW8260C
Trichloroethene	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorofluoromethane	ND	4.9	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Vinyl chloride	ND	4.9	0.49	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	96			%	50	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	102			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	94			%	1	12/07/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	98	39	ug/kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	114			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	79			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	94			%	1	12/07/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	20	0.98	ug/Kg	1	12/07/15	HM	SW8260C
Acrolein	ND	20	2.4	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	20	0.49	ug/Kg	1	12/07/15	HM	SW8260C
Tert-butyl alcohol	ND	98	20	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	95	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	760	270	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	150	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	250	J 270	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	760	390	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	760	180	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	760	760	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	410	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	760	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	730	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	270	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	310	310	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	2200	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	7000	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	760	220	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	6300	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	7000	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	3100	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	4300	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1900	760	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	99	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	270	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	600	J 1900	290	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	7400	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	840	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	490	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	270	99	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	15000	D 1300	620	ug/Kg	5	12/08/15	DD	SW8270D
Fluorene	560	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	3800	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	440	270	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	6200	D 1300	550	ug/Kg	5	12/08/15	DD	SW8270D
Phenol	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	13000	D 1300	660	ug/Kg	5	12/08/15	DD	SW8270D
Pyridine	ND	270	94	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	68			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	66			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	70			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	59			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	67			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	77			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

**Volatile Comment:**

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

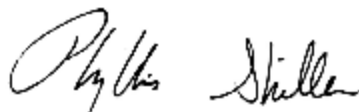
**Pesticide Comment:**

Due to matrix interference caused by the presence of PCBs in the sample, an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

10:00  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33370

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 8 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	9230	39	7.7	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	1.4	0.8	0.77	mg/Kg	1	12/09/15	LK	SW6010C
Barium	97.5	N 0.8	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.45	0.31	0.15	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	58700	39	36	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	< 0.39	0.39	0.15	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	8.38	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	16.1	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Copper	26.3	0.39	0.39	mg/kg	1	12/09/15	LK	SW6010C
Iron	15800	39	39	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.69	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	2890	N 8	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	33800	39	39	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	420	3.9	3.9	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	1160	N 8	3.3	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	13.2	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Lead	124	0.8	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Antimony	< 1.9	1.9	1.9	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.5	1.5	1.3	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.5	1.5	1.5	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	23.0	0.4	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	85.5	0.8	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	84			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	39	39	ug/Kg	2	12/08/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	91			%	2	12/08/15	AW	30 - 150 %
% TCMX	83			%	2	12/08/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	39	39	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.9	3.9	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.8	7.8	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	39	39	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	72			%	2	12/09/15	CE	30 - 150 %
% TCMX	57			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,1,1-Trichloroethane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,1,2-Trichloroethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloroethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,1-Dichloropropene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,2,3-Trichloropropane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dibromoethane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichlorobenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloroethane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,2-Dichloropropane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichlorobenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
1,3-Dichloropropane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
1,4-Dichlorobenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
2,2-Dichloropropane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
2-Chlorotoluene	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
2-Hexanone	ND	13	2.7	ug/Kg	1	12/07/15	HM	SW8260C
2-Isopropyltoluene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
4-Chlorotoluene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
4-Methyl-2-pentanone	ND	13	2.7	ug/Kg	1	12/07/15	HM	SW8260C
Acetone	41	S 27	2.7	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	5.4	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Benzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Bromobenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Bromochloromethane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Bromodichloromethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Bromoform	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Bromomethane	ND	2.7	1.1	ug/Kg	1	12/07/15	HM	SW8260C
Carbon Disulfide	1.2	J 2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Carbon tetrachloride	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Chlorobenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Chloroethane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Chloroform	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Chloromethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Dibromochloromethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Dibromomethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Dichlorodifluoromethane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Ethylbenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Hexachlorobutadiene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Isopropylbenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
m&p-Xylene	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Methyl Ethyl Ketone	8.2	J 16	2.7	ug/Kg	1	12/07/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	5.4	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Methylene chloride	ND	2.7	2.7	ug/Kg	1	12/07/15	HM	SW8260C
Naphthalene	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
n-Butylbenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	2.7	0.48	ug/Kg	1	12/07/15	HM	SW8260C
o-Xylene	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
p-Isopropyltoluene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
sec-Butylbenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Styrene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
tert-Butylbenzene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Tetrachloroethene	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	5.4	1.3	ug/Kg	1	12/07/15	HM	SW8260C
Toluene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.4	1.3	ug/Kg	1	12/07/15	HM	SW8260C
Trichloroethene	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorofluoromethane	ND	2.7	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Trichlorotrifluoroethane	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Vinyl chloride	ND	2.7	0.27	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	99			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	94			%	1	12/07/15	HM	70 - 130 %
% Dibromofluoromethane	101			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	54	21	ug/kg	1	12/07/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	99			%	1	12/07/15	HM	70 - 130 %
% Bromofluorobenzene	94			%	1	12/07/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/07/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	11	0.54	ug/Kg	1	12/07/15	HM	SW8260C
Acrolein	ND	11	1.3	ug/Kg	1	12/07/15	HM	SW8260C
Acrylonitrile	ND	11	0.27	ug/Kg	1	12/07/15	HM	SW8260C
Tert-butyl alcohol	ND	54	11	ug/Kg	1	12/07/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	280	98	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	790	280	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	280	190	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	790	400	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	280	250	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	790	190	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	790	790	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	420	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	790	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	390	180	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	310	310	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	790	230	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	210	J 280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	140	J 280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	240	J 280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	2000	790	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	2000	300	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	310	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	250	J 280	130	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	200	J 280	110	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	210	J 280	140	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	280	97	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	68			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	53			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	59			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	49			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	58			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	66			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

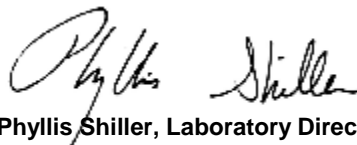
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

10:20  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33371

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 9 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	12200	39	7.8	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	5.8	0.8	0.78	mg/Kg	1	12/09/15	LK	SW6010C
Barium	117	N 0.8	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.52	0.31	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	3400	3.9	3.6	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	0.33	B 0.39	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	8.46	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	18.4	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Copper	41.2	0.39	0.39	mg/kg	1	12/09/15	LK	SW6010C
Iron	21200	39	39	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	6.18	0.28	0.17	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	1580	N 8	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	3700	3.9	3.9	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	355	3.9	3.9	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	343	N 8	3.3	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	18.4	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Lead	383	7.8	3.9	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	< 1.9	1.9	1.9	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.6	1.6	1.3	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.6	1.6	1.6	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	23.7	0.4	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	135	0.8	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	86			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	44	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	120			%	2	12/09/15	AW	30 - 150 %
% TCMX	90			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	66			%	2	12/09/15	CE	30 - 150 %
% TCMX	68			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
2-Hexanone	ND	24	4.9	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	24	4.9	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	4.9	JS 49	4.9	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	9.8	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Bromochloromethane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	4.9	2.0	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Isopropylbenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
m&p-Xylene	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	ND	29	4.9	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	4.9	4.9	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
n-Butylbenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	4.9	0.88	ug/Kg	1	12/08/15	HM	SW8260C
o-Xylene	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Styrene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Tetrachloroethene	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	9.8	2.4	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.8	2.4	ug/Kg	1	12/08/15	HM	SW8260C
Trichloroethene	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	4.9	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	4.9	0.49	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	105			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	89			%	1	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	104			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	98	39	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	105			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	89			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	20	0.98	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	20	2.4	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	20	0.49	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	98	20	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	96	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	770	270	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	150	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	770	390	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	770	180	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	770	770	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	420	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	770	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	390	170	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	310	310	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	160	J 270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	590	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	770	230	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	590	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	560	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	470	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	390	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1900	770	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	270	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	1900	290	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	650	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	270	100	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	1200	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	520	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	270	150	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	720	270	110	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	270	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	1200	270	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	270	95	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	70			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	61			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	55			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	53			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	59			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	81			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

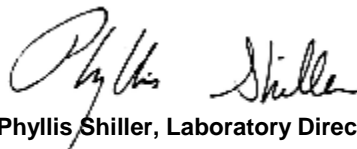
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

10:30  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33372

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 10 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	11200	38	7.7	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	4.7	0.8	0.77	mg/Kg	1	12/09/15	LK	SW6010C
Barium	118	N 0.8	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.56	0.31	0.15	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	33300	38	35	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	0.33	B 0.38	0.15	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	10.5	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	19.9	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Copper	31.9	0.38	0.38	mg/kg	1	12/09/15	LK	SW6010C
Iron	21100	38	38	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.60	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	3700	N 8	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	17600	38	38	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	372	3.8	3.8	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	1340	N 8	3.3	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	20.1	0.38	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Lead	120	0.8	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Antimony	< 1.9	1.9	1.9	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.5	1.5	1.3	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.5	1.5	1.5	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	32.9	0.4	0.38	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	194	7.7	3.8	mg/Kg	10	12/08/15	LK	SW6010C
Percent Solid	88			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	38	38	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	113			%	2	12/09/15	AW	30 - 150 %
% TCMX	86			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.5	7.5	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	67			%	2	12/09/15	CE	30 - 150 %
% TCMX	64			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
2-Hexanone	ND	20	4.0	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	20	4.0	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	7.0	JS 40	4.0	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	8.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Bromochloromethane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	4.0	1.6	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Isopropylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
m&p-Xylene	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	ND	24	4.0	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	4.0	4.0	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
n-Butylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	260	46	ug/Kg	50	12/08/15	HM	SW8260C
o-Xylene	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Styrene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Tetrachloroethene	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	8.0	2.0	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	0.59	J 4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	510	130	ug/Kg	50	12/08/15	HM	SW8260C
Trichloroethene	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	4.0	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	4.0	0.40	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	95			%	50	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	106			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	96			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	80	32	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	116			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	76			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	96			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	16	0.80	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	16	2.0	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	16	0.40	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	80	16	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	92	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	740	260	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	150	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	740	370	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	740	170	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	740	740	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	400	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	300	170	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	740	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	300	300	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	170	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	490	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	740	220	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	470	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	390	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	330	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	390	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1900	740	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	95	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	1900	280	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	550	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	260	98	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	260	95	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	980	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	350	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	920	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	1000	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	260	91	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	64			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	66			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	60			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	55			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	64			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	81			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

**Volatile Comment:**

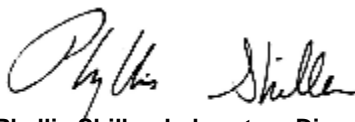
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

\*\*Poor internal standard recovery was observed for volatiles. Sample was analyzed twice with similar results indicating matrix interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

10:45  
 14:53

## Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33373

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 10 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	5370	41	8.2	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	3.3	0.8	0.82	mg/Kg	1	12/09/15	LK	SW6010C
Barium	60.9	N 0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.28	B 0.33	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	4900	4.1	3.8	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	0.36	B 0.41	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	6.12	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	12.1	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Copper	43.2	0.41	0.41	mg/kg	1	12/09/15	LK	SW6010C
Iron	17700	41	41	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.47	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	1380	N 8	3.2	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	4100	4.1	4.1	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	188	4.1	4.1	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	428	N 8	3.5	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	13.3	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Lead	243	8.2	4.1	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	< 2.1	2.1	2.1	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.6	1.6	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.6	1.6	1.6	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	16.3	0.4	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	72.5	0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	81			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

### Polychlorinated Biphenyls

PCB-1016	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	41	41	ug/Kg	2	12/08/15	AW	SW8082A

### QA/QC Surrogates

% DCBP	93			%	2	12/08/15	AW	30 - 150 %
% TCMX	92			%	2	12/08/15	AW	30 - 150 %

### Pesticides - Soil

4,4' -DDD	ND	2.4	2.4	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.4	2.4	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	2.4	2.4	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	41	41	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	4.1	4.1	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	8.1	8.1	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	41	41	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	12/09/15	CE	SW8081B

### QA/QC Surrogates

% DCBP	79			%	2	12/09/15	CE	30 - 150 %
% TCMX	80			%	2	12/09/15	CE	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
2-Hexanone	ND	29	5.9	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	29	5.9	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	53	S 50	5.9	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	12	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Bromochloromethane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	5.9	2.3	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Isopropylbenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
m&p-Xylene	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	11	J 35	5.9	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	5.9	5.9	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	2.6	J 5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
n-Butylbenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.9	1.1	ug/Kg	1	12/08/15	HM	SW8260C
o-Xylene	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Styrene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Tetrachloroethene	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	12	2.9	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	12	2.9	ug/Kg	1	12/08/15	HM	SW8260C
Trichloroethene	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	5.9	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	5.9	0.59	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	112			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	88			%	1	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	99			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	96			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	100	47	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	112			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	88			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	96			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	23	1.2	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	23	2.9	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	23	0.59	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	120	23	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	810	280	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	1200	280	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	280	190	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	810	410	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	280	260	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	810	190	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	810	810	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	440	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	320	190	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	810	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	400	180	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	4000	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	210	J 280	110	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	320	320	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	6800	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	7400	280	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzdine	ND	810	240	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	6700	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	5800	280	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	3200	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	4300	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	2000	810	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	1600	J 2000	310	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	8200	D 1400	680	ug/Kg	5	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	820	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	1900	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	22000	D 1400	660	ug/Kg	5	12/08/15	DD	SW8270D
Fluorene	3800	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	280	120	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	3600	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	1800	280	120	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	280	140	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	280	110	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	280	150	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	35000	D 1400	580	ug/Kg	5	12/08/15	DD	SW8270D
Phenol	ND	280	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	21000	D 1400	700	ug/Kg	5	12/08/15	DD	SW8270D
Pyridine	ND	280	100	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	72			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	69			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	71			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	56			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	69			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	82			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

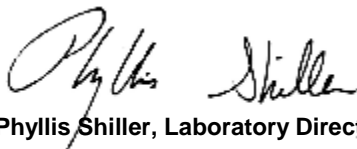
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

11:00  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33374

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 11 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	4220	39	7.8	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	22.3	0.8	0.78	mg/Kg	1	12/09/15	LK	SW6010C
Barium	120	N 0.8	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.51	0.31	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	10600	3.9	3.6	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	1.23	0.39	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	9.40	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	16.0	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Copper	114	0.39	0.39	mg/kg	1	12/09/15	LK	SW6010C
Iron	28800	39	39	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.29	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	810	N 8	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	1780	3.9	3.9	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	239	3.9	3.9	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	263	N 8	3.4	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	22.5	0.39	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Lead	437	7.8	3.9	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	7.6	2.0	2.0	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.6	1.6	1.3	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.6	1.6	1.6	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	27.2	0.4	0.39	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	244	7.8	3.9	mg/Kg	10	12/08/15	LK	SW6010C
Percent Solid	89			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	37	37	ug/Kg	2	12/09/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	82			%	2	12/09/15	AW	30 - 150 %
% TCMX	82			%	2	12/09/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	8.8	2.2	2.2	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	6.9	2.2	2.2	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	10	2.2	2.2	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	37	37	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	5.0	5.0	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	2.0	2.0	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.7	3.7	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.4	7.4	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	37	37	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	57			%	2	12/09/15	CE	30 - 150 %
% TCMX	65			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,1-Trichloroethane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,2,2-Tetrachloroethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,1,2-Trichloroethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,1-Dichloroethane	ND	5.1	1.0	ug/Kg	1	12/08/15	H/P	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,1-Dichloropropene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,3-Trichlorobenzene	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,3-Trichloropropane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,4-Trichlorobenzene	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,2,4-Trimethylbenzene	33	J 270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dibromo-3-chloropropane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dibromoethane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dichlorobenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,2-Dichloroethane	ND	5.1	0.51	ug/Kg	1	12/08/15	H/P	SW8260C
1,2-Dichloropropane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,3,5-Trimethylbenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,3-Dichlorobenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
1,3-Dichloropropane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
1,4-Dichlorobenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
2,2-Dichloropropane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
2-Chlorotoluene	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
2-Hexanone	ND	1300	270	ug/Kg	50	12/08/15	H/P	SW8260C
2-Isopropyltoluene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
4-Chlorotoluene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
4-Methyl-2-pentanone	ND	1300	270	ug/Kg	50	12/08/15	H/P	SW8260C
Acetone	9.8	JS 50	5.1	ug/Kg	1	12/08/15	H/P	SW8260C
Acrylonitrile	ND	540	54	ug/Kg	50	12/08/15	H/P	SW8260C
Benzene	ND	5.1	0.51	ug/Kg	1	12/08/15	H/P	SW8260C
Bromobenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Bromochloromethane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Bromodichloromethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Bromoform	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Bromomethane	ND	270	110	ug/Kg	50	12/08/15	H/P	SW8260C
Carbon Disulfide	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Carbon tetrachloride	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Chlorobenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Chloroethane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Chloroform	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Chloromethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
cis-1,2-Dichloroethene	ND	250	27	ug/Kg	50	12/08/15	H/P	SW8260C
cis-1,3-Dichloropropene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Dibromochloromethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Dibromomethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Dichlorodifluoromethane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Ethylbenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Hexachlorobutadiene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Isopropylbenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
m&p-Xylene	66	J 270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Methyl Ethyl Ketone	ND	31	5.1	ug/Kg	1	12/08/15	H/P	SW8260C
Methyl t-butyl ether (MTBE)	ND	540	54	ug/Kg	50	12/08/15	H/P	SW8260C
Methylene chloride	ND	5.1	5.1	ug/Kg	1	12/08/15	H/P	SW8260C
Naphthalene	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
n-Butylbenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	270	48	ug/Kg	50	12/08/15	H/P	SW8260C
o-Xylene	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
p-Isopropyltoluene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
sec-Butylbenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Styrene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
tert-Butylbenzene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Tetrachloroethene	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Tetrahydrofuran (THF)	ND	540	130	ug/Kg	50	12/08/15	H/P	SW8260C
Toluene	52	J 270	27	ug/Kg	50	12/08/15	H/P	SW8260C
trans-1,2-Dichloroethene	ND	5.1	0.51	ug/Kg	1	12/08/15	H/P	SW8260C
trans-1,3-Dichloropropene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
trans-1,4-dichloro-2-butene	ND	540	130	ug/Kg	50	12/08/15	H/P	SW8260C
Trichloroethene	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Trichlorofluoromethane	ND	270	54	ug/Kg	50	12/08/15	H/P	SW8260C
Trichlorotrifluoroethane	ND	270	27	ug/Kg	50	12/08/15	H/P	SW8260C
Vinyl chloride	ND	5.1	0.51	ug/Kg	1	12/08/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	50	12/08/15	H/P	70 - 130 %
% Bromofluorobenzene	97			%	50	12/08/15	H/P	70 - 130 %
% Dibromofluoromethane	98			%	50	12/08/15	H/P	70 - 130 %
% Toluene-d8	98			%	50	12/08/15	H/P	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	97	41	ug/kg	1	12/08/15	H/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	50	12/08/15	H/P	70 - 130 %
% Bromofluorobenzene	97			%	50	12/08/15	H/P	70 - 130 %
% Toluene-d8	98			%	50	12/08/15	H/P	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	1100	54	ug/Kg	50	12/08/15	HM	SW8260C
Acrolein	ND	1100	130	ug/Kg	50	12/08/15	HM	SW8260C
Acrylonitrile	ND	1100	27	ug/Kg	50	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	5400	1100	ug/Kg	50	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	91	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	740	260	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	250	J 260	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	740	370	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	740	170	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	740	740	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1800	400	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	740	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	290	290	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	280	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	1100	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	740	220	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	1400	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	1400	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	820	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	1000	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1800	740	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	95	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	260	99	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	1800	280	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	1400	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	160	J 260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	110	J 260	110	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	260	98	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	260	95	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	2300	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	950	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	260	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	260	140	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	1100	260	110	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	260	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	2100	260	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	260	91	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	57			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	66			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	55			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	59			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	60			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	73			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

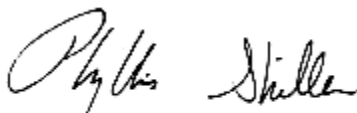
**Volatile Comment:**

Sample exhibited matrix interference in the volatile analysis. Both Low-level vials were analyzed with one or more poor internal standard responses. The high level analysis did not exhibit this interference. Had any compounds been detected in the high level analysis, they would have been reported at that dilution. The low level analysis was reported for some compounds in order to meet the requested reporting criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

11:30  
 14:53

## Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33375

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 11 12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	1.53	0.52	0.52	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	19300	52	10	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	20.5	1.0	1.0	mg/Kg	1	12/09/15	LK	SW6010C
Barium	201	N 1.0	0.52	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.90	0.42	0.21	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	11300	5.2	4.8	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	10.3	0.52	0.21	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	14.4	0.52	0.52	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	46.9	0.52	0.52	mg/Kg	1	12/09/15	LK	SW6010C
Copper	181	0.52	0.52	mg/kg	1	12/09/15	LK	SW6010C
Iron	39400	52	52	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	4.43	0.37	0.22	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	4900	N 10	4.1	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	9100	52	52	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	464	5.2	5.2	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	1390	N 10	4.5	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	33.5	0.52	0.52	mg/Kg	1	12/09/15	LK	SW6010C
Lead	519	10	5.2	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	< 26	26	26	mg/Kg	10	12/08/15	LK	SW6010C
Selenium	< 2.1	2.1	1.8	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 2.1	2.1	2.1	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	45.5	0.5	0.52	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	4160	100	52	mg/Kg	100	12/09/15	LK	SW6010C
Percent Solid	62			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	53	53	ug/Kg	2	12/08/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	79			%	2	12/08/15	AW	30 - 150 %
% TCMX	70			%	2	12/08/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	3.2	3.2	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	3.2	3.2	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	ND	3.2	3.2	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	5.3	5.3	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	2.6	2.6	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	53	53	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	2.6	2.6	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	5.3	5.3	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	11	11	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	53	53	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	210	210	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	72			%	2	12/09/15	CE	30 - 150 %
% TCMX	66			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	460	93	ug/Kg	50	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	460	93	ug/Kg	50	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	460	93	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	61	J 460	46	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	460	93	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	460	93	ug/Kg	50	12/08/15	HM	SW8260C
2-Hexanone	ND	42	8.3	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	42	8.3	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	320	S 50	8.3	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	17	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	2.4	J 8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
Bromochloromethane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	8.3	3.3	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	8.1	J 8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	6.5	J 8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
Isopropylbenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
m&p-Xylene	8.1	J 8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	100	50	8.3	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	17	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	8.3	8.3	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	2000	460	93	ug/Kg	50	12/08/15	HM	SW8260C
n-Butylbenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	460	83	ug/Kg	50	12/08/15	HM	SW8260C
o-Xylene	14	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
Styrene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	460	46	ug/Kg	50	12/08/15	HM	SW8260C
Tetrachloroethene	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	17	4.2	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	1.6	J 8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	930	230	ug/Kg	50	12/08/15	HM	SW8260C
Trichloroethene	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	8.3	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	8.3	0.83	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	50	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	99			%	50	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	110			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	88			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	100	66	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	97			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	94			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	88			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	33	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	33	4.2	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	33	0.83	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	170	33	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	380	190	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	380	160	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	380	180	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	380	160	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	380	160	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	380	290	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	380	190	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	380	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	1100	380	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	380	210	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	730	380	160	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	330	250	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	1100	540	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	380	340	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	210	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	1100	250	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	1100	1100	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2700	580	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	380	160	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	380	190	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	430	250	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	380	180	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	1100	180	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	540	240	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	870	380	160	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	430	430	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	1600	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	1800	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	1100	320	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	1700	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	1100	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	910	380	170	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	1200	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	2700	1100	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	380	140	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	380	140	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	2700	410	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	2000	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	220	J 330	170	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	320	J 380	160	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	380	140	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	380	140	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	5300	380	170	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	960	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	380	160	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	380	190	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	380	160	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	380	160	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1000	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	1100	380	150	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	380	190	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	380	150	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	380	170	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	380	210	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	380	200	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	380	200	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	7000	380	150	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	330	170	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	5100	380	180	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	380	130	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	58			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	50			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	54			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	23			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	57			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	77			%	1	12/08/15	DD	30 - 130 %

3

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 3 = This parameter exceeds laboratory specified limits.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

**Semi-Volatile Comment:**

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

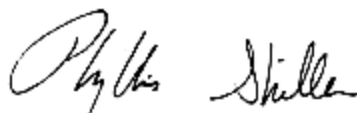
**Volatile Comment:**

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

11:45  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33376

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 12 0-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	10700	35	7.0	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	3.5	0.7	0.70	mg/Kg	1	12/09/15	LK	SW6010C
Barium	88.9	N 0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.41	0.28	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	22300	35	32	mg/Kg	10	12/08/15	LK	SW6010C
Cadmium	< 0.35	0.35	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	9.86	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	19.1	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Copper	36.4	0.35	0.35	mg/kg	1	12/09/15	LK	SW6010C
Iron	19100	35	35	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	0.32	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	3360	N 7	2.7	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	6770	35	35	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	315	3.5	3.5	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	531	N 7	3.0	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	18.2	0.35	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Lead	73.9	0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Antimony	< 1.7	1.7	1.7	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	30.3	0.3	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	58.9	0.7	0.35	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	92			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1221	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1232	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1242	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1248	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1254	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1260	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1262	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
PCB-1268	ND	35	35	ug/Kg	2	12/09/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	76			%	2	12/09/15	AW	30 - 150 %
% TCMX	63			%	2	12/09/15	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>								
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	3.0	3.0	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	10	2.1	2.1	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	35	35	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.4	1.4	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	3.5	3.5	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	7.1	7.1	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	35	35	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	140	140	ug/Kg	2	12/09/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
% DCBP	61			%	2	12/09/15	CE	30 - 150 %
% TCMX	53			%	2	12/09/15	CE	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
2-Hexanone	ND	19	3.8	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	19	3.8	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	9.9	JS 38	3.8	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	7.6	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Bromochloromethane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	3.8	1.5	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Isopropylbenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
m&p-Xylene	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	ND	23	3.8	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.6	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	3.8	3.8	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
n-Butylbenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	3.8	0.68	ug/Kg	1	12/08/15	HM	SW8260C
o-Xylene	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Styrene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Tetrachloroethene	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.6	1.9	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.6	1.9	ug/Kg	1	12/08/15	HM	SW8260C
Trichloroethene	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	3.8	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	3.8	0.38	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	107			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	88			%	1	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	90			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	99			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	76	30	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	107			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	88			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	99			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	15	0.76	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	15	1.9	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	15	0.38	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	76	15	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	710	250	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	140	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	710	360	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	250	220	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	710	170	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	710	710	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1800	380	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	710	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	250	99	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	280	280	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	710	210	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	150	J 250	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	170	J 250	110	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	1800	710	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	98	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	250	95	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	98	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	1800	270	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	170	J 250	110	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	170	J 250	120	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	250	99	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	250	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	250	130	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	250	110	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	160	J 250	120	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	250	87	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	69			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	71			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	72			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	65			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	75			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	85			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

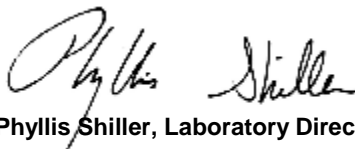
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



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# Analysis Report

January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

12:00  
 14:53

## Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33377

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: 15 SB 12-12-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	23200	410	81	mg/Kg	100	12/09/15	LK	SW6010C
Arsenic	3.2	0.8	0.81	mg/Kg	1	12/09/15	LK	SW6010C
Barium	82.1	N 0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.87	0.32	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	1130	4.1	3.7	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	< 0.41	0.41	0.16	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	13.0	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	47.3	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Copper	31.8	0.41	0.41	mg/kg	1	12/09/15	LK	SW6010C
Iron	36400	41	41	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	< 0.03	0.03	0.02	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	4040	N 81	32	mg/Kg	10	12/08/15	LK	SW6010C
Magnesium	12500	41	41	mg/Kg	10	12/08/15	LK	SW6010C
Manganese	181	4.1	4.1	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	2020	N 8	3.5	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	24.9	0.41	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Lead	7.3	0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Antimony	< 2.0	2.0	2.0	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.6	1.6	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.6	1.6	1.6	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	51.4	0.4	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	58.9	0.8	0.41	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	78			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	43	43	ug/Kg	2	12/08/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	104			%	2	12/08/15	AW	30 - 150 %
% TCMX	101			%	2	12/08/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	10	2.6	2.6	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDE	ND	2.6	2.6	ug/Kg	2	12/09/15	CE	SW8081B
4,4' -DDT	48	2.6	2.6	ug/Kg	2	12/09/15	CE	SW8081B
a-BHC	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
a-Chlordane	ND	4.3	4.3	ug/Kg	2	12/09/15	CE	SW8081B
Aldrin	ND	4.3	4.3	ug/Kg	2	12/09/15	CE	SW8081B
b-BHC	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Chlordane	ND	43	43	ug/Kg	2	12/09/15	CE	SW8081B
d-BHC	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Dieldrin	ND	4.3	4.3	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan I	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan II	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Endosulfan sulfate	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin aldehyde	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Endrin ketone	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
g-BHC	ND	1.7	1.7	ug/Kg	2	12/09/15	CE	SW8081B
g-Chlordane	ND	4.3	4.3	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Heptachlor epoxide	ND	8.5	8.5	ug/Kg	2	12/09/15	CE	SW8081B
Methoxychlor	ND	43	43	ug/Kg	2	12/09/15	CE	SW8081B
Toxaphene	ND	170	170	ug/Kg	2	12/09/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	68			%	2	12/09/15	CE	30 - 150 %
% TCMX	67			%	2	12/09/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
2-Hexanone	ND	33	6.5	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	33	6.5	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	31	JS 50	6.5	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	13	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Bromochloromethane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	6.5	2.6	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	3.2	J 6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Isopropylbenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
m&p-Xylene	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	ND	39	6.5	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	6.5	6.5	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
n-Butylbenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.5	1.2	ug/Kg	1	12/08/15	HM	SW8260C
o-Xylene	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Styrene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Tetrachloroethene	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	13	3.3	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	13	3.3	ug/Kg	1	12/08/15	HM	SW8260C
Trichloroethene	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	6.5	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	6.5	0.65	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	93			%	1	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	101			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	100	52	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	93			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	97			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	26	1.3	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	26	3.3	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	26	0.65	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	130	26	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	290	150	ug/Kg	1	12/08/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Dichlorobenzene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
1,3-Dichlorobenzene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
1,4-Dichlorobenzene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	290	230	ug/Kg	1	12/08/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dichlorophenol	ND	290	150	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dimethylphenol	ND	290	100	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrophenol	ND	830	290	ug/Kg	1	12/08/15	DD	SW8270D
2,4-Dinitrotoluene	ND	290	160	ug/Kg	1	12/08/15	DD	SW8270D
2,6-Dinitrotoluene	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
2-Chloronaphthalene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylnaphthalene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	290	190	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitroaniline	ND	830	420	ug/Kg	1	12/08/15	DD	SW8270D
2-Nitrophenol	ND	290	260	ug/Kg	1	12/08/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	290	160	ug/Kg	1	12/08/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	830	200	ug/Kg	1	12/08/15	DD	SW8270D
3-Nitroaniline	ND	830	830	ug/Kg	1	12/08/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2100	450	ug/Kg	1	12/08/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	290	150	ug/Kg	1	12/08/15	DD	SW8270D
4-Chloroaniline	ND	330	190	ug/Kg	1	12/08/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	290	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitroaniline	ND	830	140	ug/Kg	1	12/08/15	DD	SW8270D
4-Nitrophenol	ND	410	190	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthene	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Acenaphthylene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Acetophenone	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Aniline	ND	330	330	ug/Kg	1	12/08/15	DD	SW8270D
Anthracene	ND	290	140	ug/Kg	1	12/08/15	DD	SW8270D
Benz(a)anthracene	ND	290	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzidine	ND	830	240	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(a)pyrene	470	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(b)fluoranthene	280	J 290	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(ghi)perylene	240	J 290	130	ug/Kg	1	12/08/15	DD	SW8270D
Benzo(k)fluoranthene	300	290	140	ug/Kg	1	12/08/15	DD	SW8270D
Benzoic acid	ND	2100	830	ug/Kg	1	12/08/15	DD	SW8270D
Benzyl butyl phthalate	ND	290	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	290	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	290	110	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Carbazole	ND	2100	310	ug/Kg	1	12/08/15	DD	SW8270D
Chrysene	ND	290	140	ug/Kg	1	12/08/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Dibenzofuran	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Diethyl phthalate	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Dimethylphthalate	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-butylphthalate	ND	290	110	ug/Kg	1	12/08/15	DD	SW8270D
Di-n-octylphthalate	ND	290	110	ug/Kg	1	12/08/15	DD	SW8270D
Fluoranthene	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Fluorene	ND	290	140	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobenzene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorobutadiene	ND	290	150	ug/Kg	1	12/08/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Hexachloroethane	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	290	290	140	ug/Kg	1	12/08/15	DD	SW8270D
Isophorone	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Naphthalene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	290	140	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodimethylamine	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	290	160	ug/Kg	1	12/08/15	DD	SW8270D
Pentachloronitrobenzene	ND	290	150	ug/Kg	1	12/08/15	DD	SW8270D
Pentachlorophenol	ND	290	160	ug/Kg	1	12/08/15	DD	SW8270D
Phenanthrene	ND	290	120	ug/Kg	1	12/08/15	DD	SW8270D
Phenol	ND	290	130	ug/Kg	1	12/08/15	DD	SW8270D
Pyrene	ND	290	140	ug/Kg	1	12/08/15	DD	SW8270D
Pyridine	ND	290	100	ug/Kg	1	12/08/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	66			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorobiphenyl	51			%	1	12/08/15	DD	30 - 130 %
% 2-Fluorophenol	54			%	1	12/08/15	DD	30 - 130 %
% Nitrobenzene-d5	42			%	1	12/08/15	DD	30 - 130 %
% Phenol-d5	55			%	1	12/08/15	DD	30 - 130 %
% Terphenyl-d14	83			%	1	12/08/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

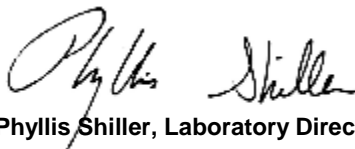
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
 This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 14, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 48 Hour  
 P.O.#:

Custody Information

Collected by: KW  
 Received by: LB  
 Analyzed by: see "By" below

Date

12/04/15  
 12/07/15

Time

12:20  
 14:53

Laboratory Data

SDG ID: GBK33362  
 Phoenix ID: BK33378

Project ID: 101 LINCOLN AVE., BROOKLYN  
 Client ID: SOIL DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	0.36	mg/Kg	1	12/09/15	LK	SW6010C
Aluminum	11200	36	7.2	mg/Kg	10	12/08/15	LK	SW6010C
Arsenic	5.6	0.7	0.72	mg/Kg	1	12/09/15	LK	SW6010C
Barium	95.3	N 0.7	0.36	mg/Kg	1	12/09/15	LK	SW6010C
Beryllium	0.58	0.29	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Calcium	6510	3.6	3.3	mg/Kg	1	12/09/15	LK	SW6010C
Cadmium	0.29	B 0.36	0.14	mg/Kg	1	12/09/15	LK	SW6010C
Cobalt	9.66	0.36	0.36	mg/Kg	1	12/09/15	LK	SW6010C
Chromium	20.7	0.36	0.36	mg/Kg	1	12/09/15	LK	SW6010C
Copper	62.3	0.36	0.36	mg/kg	1	12/09/15	LK	SW6010C
Iron	22100	36	36	mg/Kg	10	12/08/15	LK	SW6010C
Mercury	8.06	0.27	0.16	mg/Kg	1	12/08/15	RS	SW7471B
Potassium	1640	N 7	2.8	mg/Kg	1	12/09/15	LK	SW6010C
Magnesium	3630	3.6	3.6	mg/Kg	1	12/09/15	LK	SW6010C
Manganese	426	3.6	3.6	mg/Kg	10	12/08/15	LK	SW6010C
Sodium	486	N 7	3.1	mg/Kg	1	12/09/15	LK	SW6010C
Nickel	17.6	0.36	0.36	mg/Kg	1	12/09/15	LK	SW6010C
Lead	297	7.2	3.6	mg/Kg	10	12/08/15	LK	SW6010C
Antimony	< 1.8	1.8	1.8	mg/Kg	1	12/09/15	LK	SW6010C
Selenium	< 1.4	1.4	1.2	mg/Kg	1	12/09/15	LK	SW6010C
Thallium	< 1.4	1.4	1.4	mg/Kg	1	12/09/15	LK	SW6010C
Vanadium	27.5	0.4	0.36	mg/Kg	1	12/09/15	LK	SW6010C
Zinc	128	0.7	0.36	mg/Kg	1	12/09/15	LK	SW6010C
Percent Solid	86			%		12/07/15	W	SW846-%Solid
Soil Extraction for PCB	Completed					12/07/15	JC	SW3545A
Soil Extraction for Pesticide	Completed					12/07/15	JC	SW3545A
Soil Extraction for SVOA	Completed					12/07/15	JJ/CKV	SW3545A
Mercury Digestion	Completed					12/08/15	W/W	SW7471B

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					12/07/15	G/AG	SW3050B
Field Extraction	Completed					12/04/15		SW5035A

**Polychlorinated Biphenyls**

PCB-1016	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1221	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1232	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1242	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1248	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1254	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1260	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1262	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A
PCB-1268	ND	38	38	ug/Kg	2	12/08/15	AW	SW8082A

**QA/QC Surrogates**

% DCBP	94			%	2	12/08/15	AW	30 - 150 %
% TCMX	87			%	2	12/08/15	AW	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	2.3	2.3	ug/Kg	2	12/08/15	CE	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	12/08/15	CE	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	12/08/15	CE	SW8081B
a-BHC	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	12/08/15	CE	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	12/08/15	CE	SW8081B
b-BHC	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Chlordane	ND	38	38	ug/Kg	2	12/08/15	CE	SW8081B
d-BHC	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan I	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan II	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Endrin	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Endrin ketone	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	12/08/15	CE	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	12/08/15	CE	SW8081B
Heptachlor	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	12/08/15	CE	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	12/08/15	CE	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	12/08/15	CE	SW8081B

**QA/QC Surrogates**

% DCBP	68			%	2	12/08/15	CE	30 - 150 %
% TCMX	74			%	2	12/08/15	CE	30 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
1,1,1-Trichloroethane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,1,2-Trichloroethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloroethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
1,1-Dichloropropene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
1,2,3-Trichlorobenzene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,2,3-Trichloropropane	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trichlorobenzene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,2,4-Trimethylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dibromoethane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichlorobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,2-Dichloroethane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
1,2-Dichloropropane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
1,3,5-Trimethylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichlorobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
1,3-Dichloropropane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
1,4-Dichlorobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
2,2-Dichloropropane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
2-Chlorotoluene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
2-Hexanone	ND	21	4.2	ug/Kg	1	12/08/15	HM	SW8260C
2-Isopropyltoluene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
4-Chlorotoluene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
4-Methyl-2-pentanone	ND	21	4.2	ug/Kg	1	12/08/15	HM	SW8260C
Acetone	ND	42	4.2	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	8.5	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Benzene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Bromobenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Bromochloromethane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Bromodichloromethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Bromoform	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Bromomethane	ND	4.2	1.7	ug/Kg	1	12/08/15	HM	SW8260C
Carbon Disulfide	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Carbon tetrachloride	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Chlorobenzene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Chloroethane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Chloroform	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Chloromethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Dibromochloromethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Dibromomethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Dichlorodifluoromethane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Ethylbenzene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Hexachlorobutadiene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Isopropylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
m&p-Xylene	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Methyl Ethyl Ketone	ND	25	4.2	ug/Kg	1	12/08/15	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.5	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Methylene chloride	ND	4.2	4.2	ug/Kg	1	12/08/15	HM	SW8260C
Naphthalene	ND	260	51	ug/Kg	50	12/08/15	HM	SW8260C
n-Butylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	260	46	ug/Kg	50	12/08/15	HM	SW8260C
o-Xylene	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
p-Isopropyltoluene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
sec-Butylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Styrene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
tert-Butylbenzene	ND	260	26	ug/Kg	50	12/08/15	HM	SW8260C
Tetrachloroethene	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Tetrahydrofuran (THF)	ND	8.5	2.1	ug/Kg	1	12/08/15	HM	SW8260C
Toluene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	510	130	ug/Kg	50	12/08/15	HM	SW8260C
Trichloroethene	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorofluoromethane	ND	4.2	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Trichlorotrifluoroethane	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Vinyl chloride	ND	4.2	0.42	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	101			%	50	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	95			%	50	12/08/15	HM	70 - 130 %
% Dibromofluoromethane	100			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/08/15	HM	70 - 130 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	85	34	ug/kg	1	12/08/15	HM	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	106			%	1	12/08/15	HM	70 - 130 %
% Bromofluorobenzene	84			%	1	12/08/15	HM	70 - 130 %
% Toluene-d8	98			%	1	12/08/15	HM	70 - 130 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	17	0.85	ug/Kg	1	12/08/15	HM	SW8260C
Acrolein	ND	17	2.1	ug/Kg	1	12/08/15	HM	SW8260C
Acrylonitrile	ND	17	0.42	ug/Kg	1	12/08/15	HM	SW8260C
Tert-butyl alcohol	ND	85	17	ug/Kg	1	12/08/15	HM	SW8260C
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	12/07/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/07/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	130	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	95	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dinitrophenol	ND	760	270	ug/Kg	1	12/07/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	150	ug/Kg	1	12/07/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2-Chlorophenol	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
2-Methylnaphthalene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/07/15	DD	SW8270D
2-Nitroaniline	ND	760	390	ug/Kg	1	12/07/15	DD	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	12/07/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/07/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	760	180	ug/Kg	1	12/07/15	DD	SW8270D
3-Nitroaniline	ND	760	760	ug/Kg	1	12/07/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	410	ug/Kg	1	12/07/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	12/07/15	DD	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	12/07/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/07/15	DD	SW8270D
4-Nitroaniline	ND	760	130	ug/Kg	1	12/07/15	DD	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	12/07/15	DD	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Aniline	ND	310	310	ug/Kg	1	12/07/15	DD	SW8270D
Anthracene	ND	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Benz(a)anthracene	420	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Benzidine	ND	760	220	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(a)pyrene	490	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(b)fluoranthene	400	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(ghi)perylene	510	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Benzo(k)fluoranthene	320	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Benzoic acid	ND	1900	760	ug/Kg	1	12/07/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	99	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	270	100	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Carbazole	ND	1900	290	ug/Kg	1	12/07/15	DD	SW8270D
Chrysene	460	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/07/15	DD	SW8270D
Di-n-octylphthalate	ND	270	99	ug/Kg	1	12/07/15	DD	SW8270D
Fluoranthene	800	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Fluorene	ND	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorobenzene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/07/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Hexachloroethane	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	450	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Isophorone	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D

1

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	270	130	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/07/15	DD	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	12/07/15	DD	SW8270D
Pentachlorophenol	ND	270	140	ug/Kg	1	12/07/15	DD	SW8270D
Phenanthrene	450	270	110	ug/Kg	1	12/07/15	DD	SW8270D
Phenol	ND	270	120	ug/Kg	1	12/07/15	DD	SW8270D
Pyrene	790	270	130	ug/Kg	1	12/07/15	DD	SW8270D
Pyridine	ND	270	94	ug/Kg	1	12/07/15	DD	SW8270D
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	68			%	1	12/07/15	DD	30 - 130 %
% 2-Fluorobiphenyl	58			%	1	12/07/15	DD	30 - 130 %
% 2-Fluorophenol	58			%	1	12/07/15	DD	30 - 130 %
% Nitrobenzene-d5	52			%	1	12/07/15	DD	30 - 130 %
% Phenol-d5	57			%	1	12/07/15	DD	30 - 130 %
% Terphenyl-d14	75			%	1	12/07/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

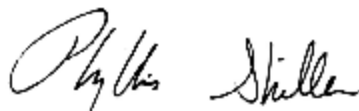
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

**Volatile Comment:**

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
 This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**January 14, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





Environmental Laboratories, Inc.  
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# QA/QC Report

January 14, 2016

## QA/QC Data

SDG I.D.: GBK33362

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 328856 (mg/kg), QC Sample No: BK33362 (BK33362, BK33363, BK33364, BK33365, BK33366, BK33367, BK33368, BK33369, BK33370, BK33371, BK33372, BK33373, BK33374, BK33375, BK33376, BK33377, BK33378)														
Mercury - Soil	BRL	0.06	0.59	0.53	10.7	101	99.1	1.9	86.6			75 - 125	30	
QA/QC Batch 328817 (mg/kg), QC Sample No: BK33374 (BK33362, BK33363, BK33364, BK33365, BK33366, BK33367, BK33368, BK33369, BK33370, BK33371, BK33372, BK33373, BK33374, BK33375, BK33376, BK33377, BK33378)														
<b>ICP Metals - Soil</b>														
Aluminum	BRL	4.9	4220	4140	1.90	113	120	6.0	NC	NC	NC	80 - 120	30	
Antimony	BRL	3.3	7.6	7.5	NC	92.2	98.5	6.6	92.6	91.8	0.9	70 - 130	30	
Arsenic	BRL	0.66	22.3	20.8	7.00	104	108	3.8	94.3	95.4	1.2	80 - 120	30	
Barium	BRL	0.33	120	116	3.40	113	121	6.8	>130	>130	NC	80 - 120	30	l,m
Beryllium	BRL	0.26	0.51	0.47	NC	98.8	105	6.1	98.6	98.3	0.3	80 - 120	30	
Cadmium	BRL	0.33	1.23	1.25	NC	91.3	103	12.0	93.5	93.2	0.3	80 - 120	30	
Calcium	BRL	4.9	10600	9720	8.70	118	124	5.0	NC	NC	NC	80 - 120	30	l
Chromium	BRL	0.33	16.0	16.9	5.50	104	110	5.6	100	108	7.7	80 - 120	30	
Cobalt	BRL	0.33	9.40	7.90	17.3	99.9	105	5.0	98.1	98.5	0.4	80 - 120	30	
Copper	BRL	0.33	114	112	1.80	105	113	7.3	103	119	14.4	80 - 120	30	
Iron	BRL	5.6	4.9	28800	31900	10.2	123	116	5.9	NC	NC	80 - 120	30	l
Lead	BRL	0.33	437	473	7.90	107	107	0.0	102	>130	NC	80 - 120	30	m
Magnesium	BRL	4.9	1780	1920	7.60	106	112	5.5	NC	NC	NC	80 - 120	30	
Manganese	BRL	0.33	239	264	9.90	103	105	1.9	94.7	>130	NC	80 - 120	30	m
Nickel	BRL	0.33	22.5	22.7	0.90	99.5	105	5.4	96.6	97.6	1.0	80 - 120	30	
Potassium	BRL	4.9	810	740	9.00	115	120	4.3	>130	>130	NC	80 - 120	30	m
Selenium	BRL	1.3	<1.6	<1.5	NC	95.6	101	5.5	82.8	83.8	1.2	80 - 120	30	
Silver	BRL	0.33	<0.39	<0.37	NC	108	111	2.7	105	106	0.9	70 - 130	30	
Sodium	BRL	4.9	263	241	8.70	97.2	103	5.8	>130	>130	NC	80 - 120	30	m
Thallium	BRL	3.0	<1.6	<3.3	NC	95.4	108	12.4	95.8	95.5	0.3	80 - 120	30	
Vanadium	BRL	0.33	27.2	23.0	16.7	104	109	4.7	98.8	102	3.2	80 - 120	30	
Zinc	BRL	0.33	244	226	7.70	97.7	103	5.3	93.6	112	17.9	80 - 120	30	

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.  
 m = This parameter is outside laboratory MS/MSD specified recovery limits.



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# QA/QC Report

January 14, 2016

## QA/QC Data

SDG I.D.: GBK33362

Parameter	Blank	BIK RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 328990 (ug/kg), QC Sample No: BK33372 (BK33364 (1X, 50X) , BK33366 (50X) , BK33367, BK33368 (50X) , BK33369 (50X) , BK33372 (1X, 50X) , BK33374 (50X) , BK33375 (50X) , BK33376)										
<b>Volatiles - Soil</b>										
1,1,1,2-Tetrachloroethane	ND	5.0	122	118	3.3	114	117	2.6	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	119	115	3.4	112	113	0.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	121	117	3.4	112	114	1.8	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	114	111	2.7	108	111	2.7	70 - 130	30
1,1-Dichloroethane	ND	5.0	116	113	2.6	111	112	0.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	118	115	2.6	85	93	9.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	121	115	5.1	117	121	3.4	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	114	111	2.7	94	105	11.1	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	119	116	2.6	108	112	3.6	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	115	111	3.5	96	108	11.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	114	110	3.6	109	113	3.6	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	120	112	6.9	99	103	4.0	70 - 130	30
1,2-Dibromoethane	ND	5.0	120	116	3.4	111	113	1.8	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	114	112	1.8	107	114	6.3	70 - 130	30
1,2-Dichloroethane	ND	5.0	117	116	0.9	113	116	2.6	70 - 130	30
1,2-Dichloropropane	ND	5.0	113	112	0.9	110	112	1.8	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	120	115	4.3	114	119	4.3	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	116	111	4.4	110	115	4.4	70 - 130	30
1,3-Dichloropropane	ND	5.0	119	115	3.4	111	114	2.7	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	114	110	3.6	108	113	4.5	70 - 130	30
1,4-dioxane	ND	100	124	117	5.8	115	136	16.7	70 - 130	30 m
2,2-Dichloropropane	ND	5.0	120	116	3.4	111	115	3.5	70 - 130	30
2-Chlorotoluene	ND	5.0	117	111	5.3	112	116	3.5	70 - 130	30
2-Hexanone	ND	25	114	109	4.5	100	101	1.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	122	117	4.2	116	121	4.2	70 - 130	30
4-Chlorotoluene	ND	5.0	116	111	4.4	109	114	4.5	70 - 130	30
4-Methyl-2-pentanone	ND	25	116	110	5.3	104	106	1.9	70 - 130	30
Acetone	ND	10	96	90	6.5	58	60	3.4	70 - 130	30 m
Acrolein	ND	25	128	122	4.8	93	94	1.1	70 - 130	30
Acrylonitrile	ND	5.0	120	113	6.0	114	109	4.5	70 - 130	30
Benzene	ND	1.0	117	114	2.6	113	117	3.5	70 - 130	30
Bromobenzene	ND	5.0	116	113	2.6	110	115	4.4	70 - 130	30
Bromochloromethane	ND	5.0	115	113	1.8	109	110	0.9	70 - 130	30
Bromodichloromethane	ND	5.0	122	119	2.5	114	117	2.6	70 - 130	30
Bromoform	ND	5.0	123	121	1.6	109	112	2.7	70 - 130	30
Bromomethane	ND	5.0	113	111	1.8	69	83	18.4	70 - 130	30 m
Carbon Disulfide	ND	5.0	116	112	3.5	84	92	9.1	70 - 130	30
Carbon tetrachloride	ND	5.0	120	115	4.3	111	114	2.7	70 - 130	30
Chlorobenzene	ND	5.0	116	112	3.5	111	115	3.5	70 - 130	30
Chloroethane	ND	5.0	118	115	2.6	48	48	0.0	70 - 130	30 m

QA/QC Data

SDG I.D.: GBK33362

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Chloroform	ND	5.0	116	112	3.5	110	112	1.8	70 - 130	30	
Chloromethane	ND	5.0	111	108	2.7	109	106	2.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	113	114	0.9	108	109	0.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	117	115	1.7	110	114	3.6	70 - 130	30	
Dibromochloromethane	ND	3.0	124	121	2.4	111	114	2.7	70 - 130	30	
Dibromomethane	ND	5.0	116	114	1.7	111	111	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	121	115	5.1	119	119	0.0	70 - 130	30	
Ethylbenzene	ND	1.0	120	115	4.3	114	117	2.6	70 - 130	30	
Hexachlorobutadiene	ND	5.0	125	117	6.6	117	122	4.2	70 - 130	30	
Isopropylbenzene	ND	1.0	120	115	4.3	113	118	4.3	70 - 130	30	
m&p-Xylene	ND	2.0	119	114	4.3	113	116	2.6	70 - 130	30	
Methyl ethyl ketone	ND	5.0	103	100	3.0	92	90	2.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	119	116	2.6	108	109	0.9	70 - 130	30	
Methylene chloride	ND	5.0	112	108	3.6	102	103	1.0	70 - 130	30	
Naphthalene	ND	5.0	115	113	1.8	93	104	11.2	70 - 130	30	
n-Butylbenzene	ND	1.0	120	112	6.9	112	117	4.4	70 - 130	30	
n-Propylbenzene	ND	1.0	112	107	4.6	105	111	5.6	70 - 130	30	
o-Xylene	ND	2.0	122	117	4.2	115	120	4.3	70 - 130	30	
p-Isopropyltoluene	ND	1.0	122	115	5.9	114	120	5.1	70 - 130	30	
sec-Butylbenzene	ND	1.0	125	119	4.9	118	123	4.1	70 - 130	30	
Styrene	ND	5.0	122	118	3.3	115	119	3.4	70 - 130	30	
tert-butyl alcohol	ND	100	126	116	8.3	116	139	18.0	70 - 130	30	m
tert-Butylbenzene	ND	1.0	121	115	5.1	114	120	5.1	70 - 130	30	
Tetrachloroethene	ND	5.0	119	112	6.1	114	118	3.4	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	115	109	5.4	103	100	3.0	70 - 130	30	
Toluene	ND	1.0	116	112	3.5	112	115	2.6	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	122	116	5.0	112	114	1.8	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	117	116	0.9	110	114	3.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	124	118	5.0	107	111	3.7	70 - 130	30	
Trichloroethene	ND	5.0	118	114	3.4	115	119	3.4	70 - 130	30	
Trichlorofluoromethane	ND	5.0	117	112	4.4	35	35	0.0	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	121	113	6.8	85	95	11.1	70 - 130	30	
Vinyl chloride	ND	5.0	117	113	3.5	113	115	1.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	99	100	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	95	%	100	101	1.0	102	101	1.0	70 - 130	30	
% Dibromofluoromethane	102	%	100	101	1.0	98	96	2.1	70 - 130	30	
% Toluene-d8	99	%	99	99	0.0	100	100	0.0	70 - 130	30	

QA/QC Batch 328809 (ug/Kg), QC Sample No: BK33378 2X (BK33362, BK33363, BK33364, BK33365, BK33366, BK33367, BK33368, BK33369, BK33370, BK33371, BK33372, BK33373, BK33374, BK33375, BK33376, BK33377, BK33378)

Pesticides - Soil

4,4' -DDD	ND	1.7	93	92	1.1	84	79	6.1	30 - 150	30	
4,4' -DDE	ND	1.7	87	87	0.0	80	76	5.1	40 - 140	30	
4,4' -DDT	ND	1.7	90	89	1.1	81	81	0.0	30 - 150	30	
a-BHC	ND	1.0	91	88	3.4	81	81	0.0	30 - 150	30	
a-Chlordane	ND	3.3	88	87	1.1	80	75	6.5	30 - 150	30	
Aldrin	ND	1.0	86	84	2.4	77	73	5.3	40 - 140	30	
b-BHC	ND	1.0	90	91	1.1	83	81	2.4	30 - 150	30	
Chlordane	ND	3.3	87	85	2.3	79	74	6.5	30 - 150	30	
d-BHC	ND	3.3	80	78	2.5	71	68	4.3	30 - 150	30	
Dieldrin	ND	1.0	86	84	2.4	81	75	7.7	40 - 140	30	
Endosulfan I	ND	3.3	89	87	2.3	80	76	5.1	30 - 150	30	
Endosulfan II	ND	3.3	87	87	0.0	79	72	9.3	30 - 150	30	

QA/QC Data

SDG I.D.: GBK33362

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Endosulfan sulfate	ND	3.3	76	74	2.7	68	64	6.1	40 - 140	30
Endrin	ND	3.3	91	88	3.4	84	78	7.4	40 - 140	30
Endrin aldehyde	ND	3.3	98	90	8.5	54	55	1.8	30 - 150	30
Endrin ketone	ND	3.3	86	84	2.4	75	69	8.3	30 - 150	30
g-BHC	ND	1.0	90	88	2.2	79	77	2.6	40 - 140	30
g-Chlordane	ND	3.3	87	85	2.3	79	74	6.5	40 - 140	30
Heptachlor	ND	3.3	91	89	2.2	82	79	3.7	40 - 140	30
Heptachlor epoxide	ND	3.3	89	79	11.9	79	73	7.9	30 - 150	30
Methoxychlor	ND	3.3	79	78	1.3	71	75	5.5	30 - 150	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	30 - 150	30
% DCBP	81	%	85	82	3.6	82	75	8.9	30 - 150	30
% TCMX	77	%	79	83	4.9	74	77	4.0	30 - 150	30

QA/QC Batch 328808 (ug/Kg), QC Sample No: BK33378 2X (BK33362, BK33363, BK33364, BK33365, BK33366, BK33367, BK33368, BK33369, BK33370, BK33371, BK33372, BK33373, BK33374, BK33375, BK33376, BK33377, BK33378)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	105	95	10.0	88	78	12.0	30 - 120	30
PCB-1221	ND	33							30 - 150	30
PCB-1232	ND	33							30 - 150	30
PCB-1242	ND	33							30 - 150	30
PCB-1248	ND	33							30 - 150	30
PCB-1254	ND	33							30 - 150	30
PCB-1260	ND	33	115	106	8.1	101	89	12.6	30 - 150	30
PCB-1262	ND	33							30 - 150	30
PCB-1268	ND	33							30 - 150	30
% DCBP (Surrogate Rec)	102	%	125	113	10.1	108	96	11.8	30 - 150	20
% TCMX (Surrogate Rec)	91	%	117	106	9.9	100	85	16.2	30 - 150	20

QA/QC Batch 328886 (ug/kg), QC Sample No: BK33378 (BK33362, BK33363, BK33365, BK33366, BK33368, BK33369, BK33370, BK33371, BK33373, BK33374, BK33375, BK33377, BK33378 (1X, 50X) )

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	103	114	10.1	114	114	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	101	111	9.4	113	110	2.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	102	109	6.6	115	116	0.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	96	106	9.9	109	108	0.9	70 - 130	30
1,1-Dichloroethane	ND	5.0	99	109	9.6	112	110	1.8	70 - 130	30
1,1-Dichloroethene	ND	5.0	106	116	9.0	92	85	7.9	70 - 130	30
1,1-Dichloropropene	ND	5.0	106	116	9.0	116	116	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	91	102	11.4	97	105	7.9	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	98	103	5.0	111	112	0.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	92	105	13.2	99	105	5.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	98	108	9.7	112	109	2.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	97	102	5.0	101	107	5.8	70 - 130	30
1,2-Dibromoethane	ND	5.0	101	109	7.6	113	113	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	97	107	9.8	112	112	0.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	99	107	7.8	112	111	0.9	70 - 130	30
1,2-Dichloropropane	ND	5.0	99	111	11.4	111	111	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	105	115	9.1	116	114	1.7	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	98	108	9.7	113	111	1.8	70 - 130	30
1,3-Dichloropropane	ND	5.0	101	110	8.5	113	113	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	96	107	10.8	112	110	1.8	70 - 130	30
1,4-dioxane	ND	100	96	115	18.0	114	121	6.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	102	112	9.3	113	110	2.7	70 - 130	30
2-Chlorotoluene	ND	5.0	102	112	9.3	114	112	1.8	70 - 130	30

QA/QC Data

SDG I.D.: GBK33362

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Hexanone	ND	25	90	95	5.4	104	103	1.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	106	117	9.9	119	116	2.6	70 - 130	30	
4-Chlorotoluene	ND	5.0	99	110	10.5	112	110	1.8	70 - 130	30	
4-Methyl-2-pentanone	ND	25	92	99	7.3	104	106	1.9	70 - 130	30	
Acetone	ND	10	71	73	2.8	63	61	3.2	70 - 130	30	m
Acrolein	ND	25	110	113	2.7	101	96	5.1	70 - 130	30	
Acrylonitrile	ND	5.0	96	101	5.1	114	113	0.9	70 - 130	30	
Benzene	ND	1.0	103	112	8.4	114	112	1.8	70 - 130	30	
Bromobenzene	ND	5.0	101	111	9.4	112	112	0.0	70 - 130	30	
Bromochloromethane	ND	5.0	98	109	10.6	112	110	1.8	70 - 130	30	
Bromodichloromethane	ND	5.0	104	115	10.0	115	114	0.9	70 - 130	30	
Bromoform	ND	5.0	104	112	7.4	112	113	0.9	70 - 130	30	
Bromomethane	ND	5.0	102	112	9.3	75	80	6.5	70 - 130	30	
Carbon Disulfide	ND	5.0	105	115	9.1	92	87	5.6	70 - 130	30	
Carbon tetrachloride	ND	5.0	104	115	10.0	115	108	6.3	70 - 130	30	
Chlorobenzene	ND	5.0	100	110	9.5	113	112	0.9	70 - 130	30	
Chloroethane	ND	5.0	103	116	11.9	47	45	4.3	70 - 130	30	m
Chloroform	ND	5.0	98	109	10.6	112	109	2.7	70 - 130	30	
Chloromethane	ND	5.0	98	106	7.8	113	107	5.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	101	112	10.3	113	108	4.5	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	101	112	10.3	112	112	0.0	70 - 130	30	
Dibromochloromethane	ND	3.0	105	116	10.0	114	114	0.0	70 - 130	30	
Dibromomethane	ND	5.0	98	107	8.8	111	110	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	110	121	9.5	125	122	2.4	70 - 130	30	
Ethylbenzene	ND	1.0	103	114	10.1	116	114	1.7	70 - 130	30	
Hexachlorobutadiene	ND	5.0	107	119	10.6	122	119	2.5	70 - 130	30	
Isopropylbenzene	ND	1.0	106	116	9.0	116	115	0.9	70 - 130	30	
m&p-Xylene	ND	2.0	102	112	9.3	115	113	1.8	70 - 130	30	
Methyl ethyl ketone	ND	5.0	80	87	8.4	96	92	4.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	101	110	8.5	109	109	0.0	70 - 130	30	
Methylene chloride	ND	5.0	97	104	7.0	105	102	2.9	70 - 130	30	
Naphthalene	ND	5.0	93	102	9.2	96	106	9.9	70 - 130	30	
n-Butylbenzene	ND	1.0	101	112	10.3	115	112	2.6	70 - 130	30	
n-Propylbenzene	ND	1.0	98	108	9.7	108	105	2.8	70 - 130	30	
o-Xylene	ND	2.0	104	115	10.0	117	116	0.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	116	9.0	119	115	3.4	70 - 130	30	
sec-Butylbenzene	ND	1.0	109	120	9.6	121	118	2.5	70 - 130	30	
Styrene	ND	5.0	104	117	11.8	118	118	0.0	70 - 130	30	
tert-butyl alcohol	ND	100	95	109	13.7	113	118	4.3	70 - 130	30	
tert-Butylbenzene	ND	1.0	106	115	8.1	116	114	1.7	70 - 130	30	
Tetrachloroethene	ND	5.0	103	113	9.3	115	112	2.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	90	95	5.4	107	104	2.8	70 - 130	30	
Toluene	ND	1.0	101	111	9.4	113	111	1.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	106	118	10.7	115	111	3.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	100	110	9.5	113	111	1.8	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	104	110	5.6	111	113	1.8	70 - 130	30	
Trichloroethene	ND	5.0	104	114	9.2	116	114	1.7	70 - 130	30	
Trichlorofluoromethane	ND	5.0	104	113	8.3	34	32	6.1	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	107	117	8.9	95	88	7.7	70 - 130	30	
Vinyl chloride	ND	5.0	106	114	7.3	117	115	1.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	99	98	1.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	95	%	101	101	0.0	101	99	2.0	70 - 130	30	
% Dibromofluoromethane	100	%	98	99	1.0	99	99	0.0	70 - 130	30	

## QA/QC Data

SDG I.D.: GBK33362

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
% Toluene-d8	99	%	100	100	0.0	99	98	1.0	70 - 130	30	
QA/QC Batch 328807 (ug/kg), QC Sample No: BK33378 (BK33362, BK33363, BK33364, BK33365, BK33366, BK33367, BK33368, BK33369, BK33370, BK33371, BK33372, BK33373, BK33374, BK33375, BK33376, BK33377, BK33378)											
<b>Semivolatiles - Soil</b>											
1,2,4,5-Tetrachlorobenzene	ND	230	66	66	0.0	77	69	11.0	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	68	66	3.0	81	72	11.8	30 - 130	30	
1,2-Dichlorobenzene	ND	180	55	55	0.0	64	55	15.1	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	78	67	15.2	71	67	5.8	30 - 130	30	
1,3-Dichlorobenzene	ND	230	55	53	3.7	61	52	15.9	30 - 130	30	
1,4-Dichlorobenzene	ND	230	54	52	3.8	62	51	19.5	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	84	74	12.7	82	81	1.2	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	77	68	12.4	76	73	4.0	30 - 130	30	
2,4-Dichlorophenol	ND	130	82	79	3.7	89	78	13.2	30 - 130	30	
2,4-Dimethylphenol	ND	230	74	71	4.1	76	63	18.7	30 - 130	30	
2,4-Dinitrophenol	ND	230	<10	<10	NC	67	51	27.1	30 - 130	30	
2,4-Dinitrotoluene	ND	130	81	72	11.8	76	74	2.7	30 - 130	30	
2,6-Dinitrotoluene	ND	130	79	71	10.7	72	70	2.8	30 - 130	30	
2-Chloronaphthalene	ND	230	80	72	10.5	80	72	10.5	30 - 130	30	
2-Chlorophenol	ND	230	72	71	1.4	80	65	20.7	30 - 130	30	
2-Methylnaphthalene	ND	230	71	68	4.3	83	71	15.6	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	80	76	5.1	86	68	23.4	30 - 130	30	
2-Nitroaniline	ND	330	78	69	12.2	72	67	7.2	30 - 130	30	
2-Nitrophenol	ND	230	68	63	7.6	77	59	26.5	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	83	76	8.8	85	66	25.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	86	78	9.8	48	48	0.0	30 - 130	30	
3-Nitroaniline	ND	330	92	82	11.5	86	80	7.2	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	12	19	45.2	86	69	21.9	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	80	72	10.5	79	76	3.9	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	83	79	4.9	91	78	15.4	30 - 130	30	
4-Chloroaniline	ND	230	71	69	2.9	81	62	26.6	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	75	67	11.3	72	70	2.8	30 - 130	30	
4-Nitroaniline	ND	230	77	68	12.4	73	66	10.1	30 - 130	30	
4-Nitrophenol	ND	230	81	65	21.9	79	70	12.1	30 - 130	30	
Acenaphthene	ND	230	78	68	13.7	75	72	4.1	30 - 130	30	
Acenaphthylene	ND	130	73	65	11.6	74	67	9.9	30 - 130	30	
Acetophenone	ND	230	64	59	8.1	68	57	17.6	30 - 130	30	
Aniline	ND	330	73	69	5.6	77	65	16.9	30 - 130	30	
Anthracene	ND	230	82	76	7.6	83	85	2.4	30 - 130	30	
Benz(a)anthracene	ND	230	80	70	13.3	79	80	1.3	30 - 130	30	
Benzidine	ND	330	53	51	3.8	<10	<10	NC	30 - 130	30	
Benzo(a)pyrene	ND	130	83	73	12.8	81	82	1.2	30 - 130	30	
Benzo(b)fluoranthene	ND	160	84	78	7.4	83	82	1.2	30 - 130	30	
Benzo(ghi)perylene	ND	230	85	75	12.5	74	68	8.5	30 - 130	30	
Benzo(k)fluoranthene	ND	230	87	72	18.9	79	82	3.7	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	44	46	4.4	30 - 130	30	
Benzyl butyl phthalate	ND	230	83	73	12.8	79	75	5.2	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	76	73	4.0	84	69	19.6	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	57	51	11.1	63	53	17.2	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	55	51	7.5	58	49	16.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	89	77	14.5	82	76	7.6	30 - 130	30	
Carbazole	ND	330	84	74	12.7	80	79	1.3	30 - 130	30	
Chrysene	ND	230	86	76	12.3	83	85	2.4	30 - 130	30	

QA/QC Data

SDG I.D.: GBK33362

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Dibenz(a,h)anthracene	ND	130	84	73	14.0	76	72	5.4	30 - 130	30
Dibenzofuran	ND	230	76	66	14.1	74	69	7.0	30 - 130	30
Diethyl phthalate	ND	230	81	70	14.6	78	74	5.3	30 - 130	30
Dimethylphthalate	ND	230	77	69	11.0	74	70	5.6	30 - 130	30
Di-n-butylphthalate	ND	230	86	77	11.0	82	80	2.5	30 - 130	30
Di-n-octylphthalate	ND	230	91	79	14.1	86	81	6.0	30 - 130	30
Fluoranthene	ND	230	85	78	8.6	90	101	11.5	30 - 130	30
Fluorene	ND	230	77	68	12.4	75	73	2.7	30 - 130	30
Hexachlorobenzene	ND	130	77	72	6.7	76	75	1.3	30 - 130	30
Hexachlorobutadiene	ND	230	60	60	0.0	70	61	13.7	30 - 130	30
Hexachlorocyclopentadiene	ND	230	64	65	1.6	67	59	12.7	30 - 130	30
Hexachloroethane	ND	130	57	51	11.1	58	47	21.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	86	77	11.0	79	74	6.5	30 - 130	30
Isophorone	ND	130	71	67	5.8	78	63	21.3	30 - 130	30
Naphthalene	ND	230	73	72	1.4	87	74	16.1	30 - 130	30
Nitrobenzene	ND	130	65	60	8.0	70	60	15.4	30 - 130	30
N-Nitrosodimethylamine	ND	230	63	61	3.2	70	58	18.8	30 - 130	30
N-Nitrosodi-n-propylamine	ND	130	74	69	7.0	79	62	24.1	30 - 130	30
N-Nitrosodiphenylamine	ND	130	80	70	13.3	77	74	4.0	30 - 130	30
Pentachloronitrobenzene	ND	230	76	71	6.8	74	73	1.4	30 - 130	30
Pentachlorophenol	ND	230	48	48	0.0	66	62	6.3	30 - 130	30
Phenanthrene	ND	130	82	74	10.3	83	87	4.7	30 - 130	30
Phenol	ND	230	91	86	5.6	99	80	21.2	30 - 130	30 m
Pyrene	ND	230	87	80	8.4	95	100	5.1	30 - 130	30
Pyridine	ND	230	44	40	9.5	52	42	21.3	30 - 130	30
% 2,4,6-Tribromophenol	56	%	74	63	16.1	73	64	13.1	30 - 130	30
% 2-Fluorobiphenyl	62	%	68	60	12.5	66	60	9.5	30 - 130	30
% 2-Fluorophenol	66	%	69	66	4.4	76	62	20.3	30 - 130	30
% Nitrobenzene-d5	52	%	60	56	6.9	67	55	19.7	30 - 130	30
% Phenol-d5	67	%	78	74	5.3	83	65	24.3	30 - 130	30
% Terphenyl-d14	77	%	80	72	10.5	80	83	3.7	30 - 130	30

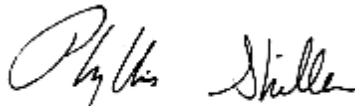
l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 January 14, 2016

# Sample Criteria Exceedences Report

## GBK33362 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	RL	Analysis Units
BK33362	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	77	50	50	50	50	ug/Kg
BK33362	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	77	50	50	50	50	ug/Kg
BK33362	\$PCB_SMRDP	PCB-1260	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	170	37	100	100	100	ug/Kg
BK33362	\$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	20	3.3	3.3	3.3	ug/Kg
BK33362	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	10	3.3	3.3	3.3	ug/Kg
BK33362	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.59	0.03	0.18	0.18	0.18	mg/Kg
BK33363	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	96.9	0.8	63	63	63	mg/Kg
BK33364	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	20.8	0.7	16	16	16	mg/Kg
BK33364	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	20.8	0.7	16	16	16	mg/Kg
BK33364	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	20.8	0.7	16	16	16	mg/Kg
BK33364	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	20.8	0.7	13	13	13	mg/Kg
BK33364	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential	466	0.7	350	350	350	mg/Kg
BK33364	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential Restricted	466	0.7	400	400	400	mg/Kg
BK33364	BA-SMDP	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	466	0.7	350	350	350	mg/Kg
BK33364	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	81.2	0.34	50	50	50	mg/kg
BK33364	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	0.97	0.03	0.73	0.73	0.73	mg/Kg
BK33364	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	0.97	0.03	0.81	0.81	0.81	mg/Kg
BK33364	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.97	0.03	0.81	0.81	0.81	mg/Kg
BK33364	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.97	0.03	0.18	0.18	0.18	mg/Kg
BK33364	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	4750	68	450	450	450	mg/Kg
BK33364	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	4750	68	400	400	400	mg/Kg
BK33364	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	4750	68	400	400	400	mg/Kg
BK33364	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	4750	68	63	63	63	mg/Kg
BK33364	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	384	6.8	109	109	109	mg/Kg
BK33365	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.43	0.03	0.18	0.18	0.18	mg/Kg
BK33366	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1100	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1300	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	740	260	500	500	500	ug/Kg
BK33366	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1300	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1100	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1200	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	740	260	500	500	500	ug/Kg
BK33366	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	1000	1000	1000	ug/Kg



# Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

**GBK33362 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK33366	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	740	260	500	500	500	ug/Kg
BK33366	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	260	1000	1000	1000	ug/Kg
BK33366	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	950	260	800	800	800	ug/Kg
BK33366	\$PESTSMDPR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.5	2.2	3.3	3.3	3.3	ug/Kg
BK33366	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	14	2.2	3.3	3.3	3.3	ug/Kg
BK33366	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	17.2	0.7	16	16	16	mg/Kg
BK33366	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	17.2	0.7	16	16	16	mg/Kg
BK33366	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	17.2	0.7	16	16	16	mg/Kg
BK33366	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	17.2	0.7	13	13	13	mg/Kg
BK33366	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	32.1	0.35	30			mg/Kg
BK33366	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	138	0.35	50	50	50	mg/kg
BK33366	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.48	0.03	0.18	0.18	0.18	mg/Kg
BK33366	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	388	7.0	63	63	63	mg/Kg
BK33366	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	282	7.0	109	109	109	mg/Kg
BK33367	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	51	46	50	50	50	ug/Kg
BK33367	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	51	46	50	50	50	ug/Kg
BK33367	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2900	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2900	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2900	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2900	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	3000	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	3000	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3000	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1600	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1900	340	1700	1700	1700	ug/Kg
BK33367	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1900	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1900	340	800	800	800	ug/Kg
BK33367	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2600	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2600	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	340	1000	1000	1000	ug/Kg
BK33367	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1300	340	500	500	500	ug/Kg
BK33367	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	340	500	500	500	ug/Kg
BK33367	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	340	500	500	500	ug/Kg
BK33367	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.1	2.9	3.3	3.3	3.3	ug/Kg
BK33367	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	21.1	1.0	16	16	16	mg/Kg
BK33367	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	21.1	1.0	16	16	16	mg/Kg
BK33367	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	21.1	1.0	16	16	16	mg/Kg
BK33367	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	21.1	1.0	13	13	13	mg/Kg
BK33367	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	38.4	0.49	30			mg/Kg

# Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

**GBK33362 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	RL	Analysis Units
BK33367	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	121	0.49	50	50	50	mg/kg
BK33367	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	5.64	0.35	0.73	0.73	0.73	mg/Kg
BK33367	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	5.64	0.35	0.81	0.81	0.81	mg/Kg
BK33367	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	5.64	0.35	0.81	0.81	0.81	mg/Kg
BK33367	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	5.64	0.35	0.18	0.18	0.18	mg/Kg
BK33367	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	584	9.8	450	450	450	mg/Kg
BK33367	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	584	9.8	400	400	400	mg/Kg
BK33367	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	584	9.8	400	400	400	mg/Kg
BK33367	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	584	9.8	63	63	63	mg/Kg
BK33367	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	295	9.8	109	109	109	mg/Kg
BK33368	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2400	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2100	260	1700	1700	1700	ug/Kg
BK33368	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2300	260	1700	1700	1700	ug/Kg
BK33368	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2600	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2500	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2100	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2400	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1600	260	500	500	500	ug/Kg
BK33368	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	370	260	330	330	330	ug/Kg
BK33368	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2300	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2600	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	370	260	330	330	330	ug/Kg
BK33368	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	260	500	500	500	ug/Kg
BK33368	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2300	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2500	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2400	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	260	500	500	500	ug/Kg
BK33368	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	260	1000	1000	1000	ug/Kg
BK33368	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	370	260	330	330	330	ug/Kg
BK33368	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	260	800	800	800	ug/Kg
BK33368	\$PESTSMDPR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.1	2.3	3.3	3.3	3.3	ug/Kg
BK33368	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.4	2.3	3.3	3.3	3.3	ug/Kg
BK33368	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	14.3	0.7	13	13	13	mg/Kg
BK33368	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	52.4	0.35	50	50	50	mg/kg
BK33368	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.45	0.03	0.18	0.18	0.18	mg/Kg
BK33368	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	208	7.0	63	63	63	mg/Kg
BK33368	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	180	7.0	109	109	109	mg/Kg

# Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

**GBK33362 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK33369	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	61	49	50	50	50	ug/Kg
BK33369	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	61	49	50	50	50	ug/Kg
BK33369	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	7000	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	7000	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	7000	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7000	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	7400	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	7400	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	7400	270	3900	3900	3900	ug/Kg
BK33369	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7400	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	7000	270	1700	1700	1700	ug/Kg
BK33369	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	7000	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	7000	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7000	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	4300	270	1700	1700	1700	ug/Kg
BK33369	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4300	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4300	270	3900	3900	3900	ug/Kg
BK33369	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4300	270	800	800	800	ug/Kg
BK33369	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	6300	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	6300	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6300	270	1000	1000	1000	ug/Kg
BK33369	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	3800	270	500	500	500	ug/Kg
BK33369	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3800	270	500	500	500	ug/Kg
BK33369	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3800	270	500	500	500	ug/Kg
BK33369	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	840	270	330	330	330	ug/Kg
BK33369	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	840	270	330	330	330	ug/Kg
BK33369	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	840	270	330	330	330	ug/Kg
BK33369	\$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	53	2.3	3.3	3.3	3.3	ug/Kg
BK33369	\$PESTSMDPR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	27	2.3	3.3	3.3	3.3	ug/Kg
BK33369	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	40	2.3	3.3	3.3	3.3	ug/Kg
BK33369	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	16.0	0.8	13	13	13	mg/Kg
BK33369	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	86.9	0.38	50	50	50	mg/kg
BK33369	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.48	0.03	0.18	0.18	0.18	mg/Kg
BK33369	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	478	7.6	450	450	450	mg/Kg
BK33369	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	478	7.6	400	400	400	mg/Kg
BK33369	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	478	7.6	400	400	400	mg/Kg
BK33369	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	478	7.6	63	63	63	mg/Kg
BK33369	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	335	7.6	109	109	109	mg/Kg
BK33370	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.69	0.03	0.18	0.18	0.18	mg/Kg
BK33370	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	124	0.8	63	63	63	mg/Kg

# Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

**GBK33362 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK33371	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	520	270	500	500	500	ug/Kg
BK33371	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	520	270	500	500	500	ug/Kg
BK33371	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	520	270	500	500	500	ug/Kg
BK33371	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	6.18	0.28	0.73	0.73	0.73	mg/Kg
BK33371	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	6.18	0.28	0.81	0.81	0.81	mg/Kg
BK33371	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	6.18	0.28	0.81	0.81	0.81	mg/Kg
BK33371	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	6.18	0.28	0.18	0.18	0.18	mg/Kg
BK33371	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	383	7.8	63	63	63	mg/Kg
BK33371	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	135	0.8	109	109	109	mg/Kg
BK33372	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.60	0.03	0.18	0.18	0.18	mg/Kg
BK33372	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	120	0.8	63	63	63	mg/Kg
BK33372	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	194	7.7	109	109	109	mg/Kg
BK33373	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	53	50	50	50	50	ug/Kg
BK33373	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	53	50	50	50	50	ug/Kg
BK33373	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	7400	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	7400	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	7400	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	7400	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	8200	1400	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	8200	1400	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential Restricted	8200	1400	3900	3900	3900	ug/Kg
BK33373	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	8200	1400	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	5800	280	1700	1700	1700	ug/Kg
BK33373	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	5800	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	5800	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5800	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	4300	280	1700	1700	1700	ug/Kg
BK33373	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4300	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4300	280	3900	3900	3900	ug/Kg
BK33373	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4300	280	800	800	800	ug/Kg
BK33373	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	6700	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	6700	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	6700	280	1000	1000	1000	ug/Kg
BK33373	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	3600	280	500	500	500	ug/Kg
BK33373	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3600	280	500	500	500	ug/Kg
BK33373	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3600	280	500	500	500	ug/Kg
BK33373	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	820	280	330	330	330	ug/Kg
BK33373	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	820	280	330	330	330	ug/Kg
BK33373	\$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	820	280	330	330	330	ug/Kg
BK33373	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.47	0.03	0.18	0.18	0.18	mg/Kg

# Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

**GBK33362 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK33373	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	243	8.2	63	63	mg/Kg
BK33374	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1100	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1100	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	950	260	500	500	ug/Kg
BK33374	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	950	260	500	500	ug/Kg
BK33374	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1000	260	800	800	ug/Kg
BK33374	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
BK33374	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	950	260	500	500	ug/Kg
BK33374	\$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.8	2.2	3.3	3.3	ug/Kg
BK33374	\$PESTSMDPR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.9	2.2	3.3	3.3	ug/Kg
BK33374	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	10	2.2	3.3	3.3	ug/Kg
BK33374	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	22.3	0.8	16	16	mg/Kg
BK33374	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	22.3	0.8	16	16	mg/Kg
BK33374	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	22.3	0.8	16	16	mg/Kg
BK33374	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	22.3	0.8	13	13	mg/Kg
BK33374	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	114	0.39	50	50	mg/kg
BK33374	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.29	0.03	0.18	0.18	mg/Kg
BK33374	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	437	7.8	400	400	mg/Kg
BK33374	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	437	7.8	400	400	mg/Kg
BK33374	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	437	7.8	63	63	mg/Kg
BK33374	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	244	7.8	109	109	mg/Kg
BK33375	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	320	50	50	50	ug/Kg
BK33375	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	320	50	50	50	ug/Kg
BK33375	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1800	380	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1800	380	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1800	380	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	380	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2000	380	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2000	380	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	380	1000	1000	ug/Kg

# Sample Criteria Exceedences Report

Criteria: NY: 375, 375GWP, 375RRS, 375RS

**GBK33362 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK33375	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	380	1000	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	380	1000	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	380	1000	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1200	380	1000	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	380	800	800	800	ug/Kg
BK33375	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1700	380	1000	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1700	380	1000	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	380	1000	1000	1000	ug/Kg
BK33375	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1000	380	500	500	500	ug/Kg
BK33375	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1000	380	500	500	500	ug/Kg
BK33375	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1000	380	500	500	500	ug/Kg
BK33375	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	20.5	1.0	16	16	16	mg/Kg
BK33375	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	20.5	1.0	16	16	16	mg/Kg
BK33375	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	20.5	1.0	16	16	16	mg/Kg
BK33375	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	20.5	1.0	13	13	13	mg/Kg
BK33375	CD-SM	Cadmium	NY / 375-6.8 Metals / Ground Water Protection	10.3	0.52	7.5	7.5	7.5	mg/Kg
BK33375	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	10.3	0.52	2.5	2.5	2.5	mg/Kg
BK33375	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential Restricted	10.3	0.52	4.3	4.3	4.3	mg/Kg
BK33375	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	10.3	0.52	2.5	2.5	2.5	mg/Kg
BK33375	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	46.9	0.52	30	30	30	mg/Kg
BK33375	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	181	0.52	50	50	50	mg/kg
BK33375	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	4.43	0.37	0.73	0.73	0.73	mg/Kg
BK33375	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	4.43	0.37	0.81	0.81	0.81	mg/Kg
BK33375	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	4.43	0.37	0.81	0.81	0.81	mg/Kg
BK33375	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	4.43	0.37	0.18	0.18	0.18	mg/Kg
BK33375	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	33.5	0.52	30	30	30	mg/Kg
BK33375	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	519	10	450	450	450	mg/Kg
BK33375	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	519	10	400	400	400	mg/Kg
BK33375	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	519	10	400	400	400	mg/Kg
BK33375	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	519	10	63	63	63	mg/Kg
BK33375	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Ground Water Protection	4160	100	2480	2480	2480	mg/Kg
BK33375	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Residential	4160	100	2200	2200	2200	mg/Kg
BK33375	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	4160	100	109	109	109	mg/Kg
BK33376	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	10	2.1	3.3	3.3	3.3	ug/Kg
BK33376	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.32	0.03	0.18	0.18	0.18	mg/Kg
BK33376	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	73.9	0.7	63	63	63	mg/Kg
BK33377	\$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	10	2.6	3.3	3.3	3.3	ug/Kg
BK33377	\$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	48	2.6	3.3	3.3	3.3	ug/Kg
BK33377	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	47.3	0.41	30	30	30	mg/Kg
BK33378	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	62.3	0.36	50	50	50	mg/kg

Criteria: NY: 375, 375GWP, 375RRS, 375RS

State: NY

# Sample Criteria Exceedences Report

**GBK33362 - EBC**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK33378	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	8.06	0.27	0.73	0.73	mg/Kg
BK33378	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	8.06	0.27	0.81	0.81	mg/Kg
BK33378	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	8.06	0.27	0.81	0.81	mg/Kg
BK33378	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	8.06	0.27	0.18	0.18	mg/Kg
BK33378	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	297	7.2	63	63	mg/Kg
BK33378	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	128	0.7	109	109	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# NY Temperature Narration

January 14, 2016

SDG I.D.: GBK33362

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)



Cooler: Yes  No   
 Coolant: IPK  ICE   
 Temp:  °C  °F of

Contact Options:  
 Fax: \_\_\_\_\_  
 Phone: (631) 504-6000  
 Email: csosik@ebcincny.com

### NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726



Customer: Environmental Business Consultants  
 Address: 1808 Middle Country Road  
 Ridge, New York 11961

Project: 101 Lincoln Ave Break N7  
 Report to: Environmental Business Consultants  
 Invoice to: Environmental Business Consultants

Project P.O.: \_\_\_\_\_

This section **MUST** be completed with Bottle Quantities.

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Client Sample - Information - Identification		Analysis Request
					Sampler's Signature	Date	
33362	15 SB 3 0-2	S	12-11	8:00	<i>[Signature]</i>	12-11-15	GL VOA Vials (X) methanol (X) H2O GL Soil container (0) oz GL 40 ml VOA Vial (HCl) PL As Is ( ) 250ml PL H2SO4 ( ) 250ml PL HNO3 250ml Bacteria Bottle
33363	15 SB 3 12-14			8:10			
33364	15 SB 4 0-1			8:30			
33365	15 SB 4 12-14			8:40			
33366	15 SB 5 0-2			9:00			
33367	15 SB 5 12-14			9:20			
33368	15 SB 6 0-2			9:30			
33369	15 SB 8 0-2			9:50			
33370	15 SB 6 12-14			10:00			
33371	15 SB 9 0-2			10:20			
33372	15 SB 10 0-2			10:30			

Relinquished by: *[Signature]* Date: 12-7-15 Time: 12:00  
 Accepted by: *[Signature]* Date: 12-7-15 Time: 14:53

Turnaround:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 5 Days  
 10 Days  
 Other

\* SURCHARGE APPLIES *see note*

NY: TAGM 4046 GW   
 TAGM 4046 SOIL   
 NY375 Unrestricted Use Soil   
 NY375 Residential   
 Restricted/Residential   
 Commercial   
 Industrial

NJ: Res. Criteria   
 Non-Res. Criteria   
 Impact to GW Soil Cleanup Criteria   
 GW Criteria

Data Format:  
 Phoenix Std Report  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 NJ Hazsite EDD  
 NY EZ EDD (ASP)  
 Other

Data Package:  
 NJ Reduced Deliv.  
 NY Enhanced (ASP B)  
 Other

State where samples were collected: NY

Comments, Special Requirements or Regulations:  
 Results wed 12.9



**NY/NJ CHAIN OF CUSTODY RECORD**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Customer: Environmental Business Consultants  
 Address: 1808 Middle Country Road  
 Ridge, New York 11961

Project: 101 Lincoln Ave Bronx NY  
 Report to: Environmental Business Consultants  
 Invoice to: Environmental Business Consultants

Project P.O.:

This section **MUST** be completed with Bottle Quantities.

Coolant: Yes  No   
 IPK  ICE   
 Temp: \_\_\_\_\_ °C Pg 2 of 2

**Contact Options:**

Fax: \_\_\_\_\_  
 Phone: (631) 504-6000  
 Email: cs@phoenixlabs.com

Sampler's Signature: *[Signature]* Date: 12-4-15

Client Sample - Information - Identification  
 Date: 12-4-15

Matrix Code:  
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe  
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
333373	15 SD 10 12-14	S	12-4-15	10:45
333374	15 SD 11 0-2	S		11:00
333375	15 SD 11 12-14	S		11:30
333376	15 SD 12 0-2	S		11:45
333377	15 SD 12 12-14	S		12:00
333378	soil duplicate	S		12:20
333379	trip blank	S		
333380				

Analysis Request	VOCs B299	SVOCs B270	PAHs B270	TAL Metals	Res. Criteria	NY	Turnaround:	Time:	Date:
Soil VOA Vials (X) methanol (X) H2O	X	X	X	X	X	Res. Criteria	1 Day*	12-7-15	12-4-15
40 mL VOA Vial (X) HCl	X	X	X	X	X	Non-Res. Criteria	2 Days*		
GL Soil Container (8) oz	X	X	X	X	X	Impact to GW Soil Cleanup Criteria	3 Days*		
GL Amber 1000mL As Is	X	X	X	X	X	GW Criteria	5 Days		
PL As Is ( ) 250ml	X	X	X	X	X		10 Days		
PL H2SO4 ( ) 250ml	X	X	X	X	X		Other		
PL HNO3 250ml	X	X	X	X	X				
Bacteria Bottle	X	X	X	X	X				

Relinquished by: *[Signature]* Accepted by: *[Signature]*

Turnaround:  1 Day\*  2 Days\*  3 Days\*  5 Days  10 Days  Other

Time: 12-7-15 14:53

Date: 12-7-15 14:53

Res. Criteria:  Res. Criteria  Non-Res. Criteria  Impact to GW Soil Cleanup Criteria  GW Criteria

NY:  TAGM 4046 GW  TAGM 4046 SOIL  NY375 Unrestricted Use Soil  NY375 Residential  Restricted/Residential  Commercial  Industrial

Data Format:  Phoenix Std Report  Excel  PDF  GIS/Key  EQulS  NJ Hazsite EDD  NY EZ EDD (ASP)  Other

Data Package:  NJ Reduced Deliv.  NY Enhanced (ASP B)  Other

State where samples were collected: NY

Comments, Special Requirements or Regulations:  
 \* Received water TFCP results Wed 12-9



Monday, January 11, 2016

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 101 LINCOLN AVE BRONX  
Sample ID#s: BK34758 - BK34765

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



**Environmental Laboratories, Inc.**  
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Tel. (860) 645-1102 Fax (860) 645-0823



**NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE**

**Client: Environmental Business Consultants**  
**Project: 101 LINCOLN AVE BRONX**  
**Laboratory Project: GBK34758**



**Environmental Laboratories, Inc.**  
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## Methodology Summary

### **Volatiles**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update V, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

### **Mercury**

Methods for Chemical Analyses of Water and Wastes, EPA, Environmental Monitoring Systems Laboratory Cincinnati (EMSL-CL), EPA-600/4-79-020, method 245.1  
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7470A.

### **Metals**

ICP :  
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010C.  
Mercury:  
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471

### **Pesticides:**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8081B.

### **Polychlorinated Biphenyls (PCBs)/Pesticides:**

Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 608) as printed in 40CFR part 136.

### **Semivolatile Organic Compounds**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

### **Semi-volatiles analysis**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D (SIM - selective ion monitoring mode).

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## Sample Id Cross Reference

<b>Client Id</b>	<b>Lab Id</b>	<b>Matrix</b>
MW 1	BK34758	GROUND WATER
MW 2	BK34759	GROUND WATER
MW 3	BK34760	GROUND WATER
MW 4	BK34761	GROUND WATER
MW 5	BK34762	GROUND WATER
MW 6	BK34763	GROUND WATER
GW DUPLICATE	BK34764	GROUND WATER
TRIP BLANK	BK34765	GROUND WATER

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## Laboratory Chronicle

The samples in this delivery group were received at 4°C.

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BK34758	Aluminum	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Aluminum (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Antimony	12/08/15	12/10/15	12/15/15	RS	Y
BK34758	Antimony, (Dissolved)	12/08/15	12/09/15	12/15/15	RS	Y
BK34758	Arsenic - LDL	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Arsenic, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Barium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Barium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Beryllium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Beryllium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Cadmium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Cadmium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Calcium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Calcium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Chromium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Chromium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Cobalt	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Cobalt, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Copper	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Copper, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Iron	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Iron, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Lead	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Lead (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Magnesium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Magnesium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Manganese	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Manganese, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Mercury	12/08/15	12/11/15	12/11/15	RS	Y
BK34758	Mercury (Dissolved)	12/08/15	12/10/15	12/10/15	RS	Y
BK34758	Nickel	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Nickel, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y



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BK34758	Pesticides	12/08/15	12/09/15	12/11/15	CE	Y
BK34758	Polychlorinated Biphenyls	12/08/15	12/09/15	12/10/15	AW	Y
BK34758	Potassium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Potassium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Selenium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Selenium, (Dissolved)	12/08/15	12/09/15	12/10/15	RS	Y
BK34758	Semivolatiles	12/08/15	12/09/15	12/11/15	DD	Y
BK34758	Silver	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Silver (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Sodium	12/08/15	12/10/15	12/11/15	EK	Y
BK34758	Sodium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Thallium , (Dissolved)	12/08/15	12/09/15	12/14/15	RS	Y
BK34758	Thallium - LDL	12/08/15	12/10/15	12/14/15	RS	Y
BK34758	Vanadium	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Vanadium, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34758	Volatiles	12/08/15	12/11/15	12/11/15	MH	Y
BK34758	Zinc	12/08/15	12/10/15	12/12/15	EK	Y
BK34758	Zinc, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34759	Aluminum	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Aluminum (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Antimony	12/08/15	12/10/15	12/15/15	RS	Y
BK34759	Antimony, (Dissolved)	12/08/15	12/09/15	12/15/15	RS	Y
BK34759	Arsenic - LDL	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Arsenic, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Barium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Barium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Beryllium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Beryllium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Cadmium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Cadmium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Calcium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Calcium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Chromium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Chromium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Cobalt	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Cobalt, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Copper	12/08/15	12/10/15	12/12/15	EK	Y





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BK34759	Copper, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Iron	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Iron, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Lead	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Lead (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Magnesium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Magnesium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Manganese	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Manganese, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Mercury	12/08/15	12/11/15	12/11/15	RS	Y
BK34759	Mercury (Dissolved)	12/08/15	12/10/15	12/10/15	RS	Y
BK34759	Nickel	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Nickel, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Pesticides	12/08/15	12/09/15	12/11/15	CE	Y
BK34759	Polychlorinated Biphenyls	12/08/15	12/09/15	12/10/15	AW	Y
BK34759	Potassium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Potassium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Selenium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Selenium, (Dissolved)	12/08/15	12/09/15	12/10/15	RS	Y
BK34759	Semivolatiles	12/08/15	12/09/15	12/11/15	DD	Y
BK34759	Silver	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Silver (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Sodium	12/08/15	12/10/15	12/11/15	EK	Y
BK34759	Sodium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Thallium , (Dissolved)	12/08/15	12/09/15	12/11/15	RS	Y
BK34759	Thallium - LDL	12/08/15	12/10/15	12/11/15	RS	Y
BK34759	Vanadium	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Vanadium, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34759	Volatiles	12/08/15	12/09/15	12/09/15	MH	Y
BK34759	Zinc	12/08/15	12/10/15	12/12/15	EK	Y
BK34759	Zinc, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34760	Aluminum	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Aluminum (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Antimony	12/08/15	12/10/15	12/15/15	RS	Y
BK34760	Antimony, (Dissolved)	12/08/15	12/09/15	12/15/15	RS	Y
BK34760	Arsenic - LDL	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Arsenic, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y



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BK34760	Barium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Barium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Beryllium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Beryllium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Cadmium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Cadmium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Calcium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Calcium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Chromium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Chromium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Cobalt	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Cobalt, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Copper	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Copper, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Iron	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Iron, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34760	Lead	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Lead (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Magnesium	12/08/15	12/10/15	12/11/15	EK	Y
BK34760	Magnesium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Manganese	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Manganese, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Mercury	12/08/15	12/11/15	12/11/15	RS	Y
BK34760	Mercury (Dissolved)	12/08/15	12/10/15	12/10/15	RS	Y
BK34760	Nickel	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Nickel, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Pesticides	12/08/15	12/09/15	12/14/15	CE	Y
BK34760	Polychlorinated Biphenyls	12/08/15	12/09/15	12/12/15	AW	Y
BK34760	Potassium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Potassium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Selenium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Selenium, (Dissolved)	12/08/15	12/09/15	12/10/15	RS	Y
BK34760	Semivolatiles	12/08/15	12/09/15	12/11/15	DD	Y
BK34760	Silver	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Silver (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Sodium	12/08/15	12/10/15	12/11/15	EK	Y
BK34760	Sodium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y



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BK34760	Thallium , (Dissolved)	12/08/15	12/09/15	12/14/15	RS	Y
BK34760	Thallium - LDL	12/08/15	12/10/15	12/14/15	RS	Y
BK34760	Vanadium	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Vanadium, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34760	Volatiles	12/08/15	12/11/15	12/11/15	MH	Y
BK34760	Zinc	12/08/15	12/10/15	12/12/15	EK	Y
BK34760	Zinc, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34761	Aluminum	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Aluminum (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Antimony	12/08/15	12/10/15	12/15/15	RS	Y
BK34761	Antimony, (Dissolved)	12/08/15	12/09/15	12/15/15	RS	Y
BK34761	Arsenic - LDL	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Arsenic, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Barium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Barium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Beryllium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Beryllium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Cadmium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Cadmium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Calcium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Calcium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Chromium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Chromium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Cobalt	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Cobalt, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Copper	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Copper, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Iron	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Iron, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Lead	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Lead (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Magnesium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Magnesium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Manganese	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Manganese, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Mercury	12/08/15	12/11/15	12/11/15	RS	Y
BK34761	Mercury (Dissolved)	12/08/15	12/10/15	12/10/15	RS	Y



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BK34761	Nickel	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Nickel, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Pesticides	12/08/15	12/09/15	12/11/15	CE	Y
BK34761	Polychlorinated Biphenyls	12/08/15	12/09/15	12/10/15	AW	Y
BK34761	Potassium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Potassium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Selenium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Selenium, (Dissolved)	12/08/15	12/09/15	12/10/15	RS	Y
BK34761	Semivolatiles	12/08/15	12/09/15	12/11/15	DD	Y
BK34761	Silver	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Silver (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Sodium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Sodium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Thallium , (Dissolved)	12/08/15	12/09/15	12/14/15	RS	Y
BK34761	Thallium - LDL	12/08/15	12/10/15	12/14/15	RS	Y
BK34761	Vanadium	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Vanadium, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34761	Volatiles	12/08/15	12/09/15	12/09/15	MH	Y
BK34761	Zinc	12/08/15	12/10/15	12/11/15	EK	Y
BK34761	Zinc, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34762	Aluminum	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Aluminum (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Antimony	12/08/15	12/10/15	12/15/15	RS	Y
BK34762	Antimony, (Dissolved)	12/08/15	12/09/15	12/15/15	RS	Y
BK34762	Arsenic - LDL	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Arsenic, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Barium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Barium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Beryllium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Beryllium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Cadmium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Cadmium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Calcium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Calcium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Chromium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Chromium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Cobalt	12/08/15	12/10/15	12/12/15	EK	Y



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BK34762	Cobalt, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Copper	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Copper, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Iron	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Iron, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Lead	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Lead (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Magnesium	12/08/15	12/10/15	12/11/15	EK	Y
BK34762	Magnesium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Manganese	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Manganese, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Mercury	12/08/15	12/11/15	12/11/15	RS	Y
BK34762	Mercury (Dissolved)	12/08/15	12/10/15	12/10/15	RS	Y
BK34762	Nickel	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Nickel, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Pesticides	12/08/15	12/09/15	12/11/15	CE	Y
BK34762	Polychlorinated Biphenyls	12/08/15	12/11/15	12/14/15	AW	Y
BK34762	Potassium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Potassium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Selenium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Selenium, (Dissolved)	12/08/15	12/09/15	12/10/15	RS	Y
BK34762	Semivolatiles	12/08/15	12/09/15	12/11/15	DD	Y
BK34762	Silver	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Silver (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Sodium	12/08/15	12/10/15	12/11/15	EK	Y
BK34762	Sodium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Thallium , (Dissolved)	12/08/15	12/09/15	12/14/15	RS	Y
BK34762	Thallium - LDL	12/08/15	12/10/15	12/14/15	RS	Y
BK34762	Vanadium	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Vanadium, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34762	Volatiles	12/08/15	12/11/15	12/11/15	MH	Y
BK34762	Zinc	12/08/15	12/10/15	12/12/15	EK	Y
BK34762	Zinc, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34763	Aluminum	12/08/15	12/10/15	12/11/15	EK	Y
BK34763	Aluminum (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Antimony	12/08/15	12/10/15	12/15/15	RS	Y
BK34763	Antimony, (Dissolved)	12/08/15	12/09/15	12/15/15	RS	Y



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BK34763	Arsenic - LDL	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Arsenic, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Barium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Barium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Beryllium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Beryllium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Cadmium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Cadmium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Calcium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Calcium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Chromium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Chromium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Cobalt	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Cobalt, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Copper	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Copper, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Iron	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Iron, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Lead	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Lead (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Magnesium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Magnesium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Manganese	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Manganese, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Mercury	12/08/15	12/11/15	12/11/15	RS	Y
BK34763	Mercury (Dissolved)	12/08/15	12/10/15	12/10/15	RS	Y
BK34763	Nickel	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Nickel, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Pesticides	12/08/15	12/09/15	12/14/15	CE	Y
BK34763	Polychlorinated Biphenyls	12/08/15	12/09/15	12/12/15	AW	Y
BK34763	Potassium	12/08/15	12/10/15	12/11/15	EK	Y
BK34763	Potassium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Selenium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Selenium, (Dissolved)	12/08/15	12/09/15	12/10/15	RS	Y
BK34763	Semivolatiles	12/08/15	12/09/15	12/14/15	DD	Y
BK34763	Silver	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Silver (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y



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BK34763	Sodium	12/08/15	12/10/15	12/11/15	EK	Y
BK34763	Sodium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Thallium , (Dissolved)	12/08/15	12/09/15	12/14/15	RS	Y
BK34763	Thallium - LDL	12/08/15	12/10/15	12/14/15	RS	Y
BK34763	Vanadium	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Vanadium, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34763	Volatiles	12/08/15	12/11/15	12/11/15	MH	Y
BK34763	Zinc	12/08/15	12/10/15	12/12/15	EK	Y
BK34763	Zinc, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34764	Aluminum	12/08/15	12/10/15	12/11/15	EK	Y
BK34764	Aluminum (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Antimony	12/08/15	12/10/15	12/15/15	RS	Y
BK34764	Antimony, (Dissolved)	12/08/15	12/09/15	12/15/15	RS	Y
BK34764	Arsenic - LDL	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Arsenic, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Barium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Barium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Beryllium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Beryllium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Cadmium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Cadmium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Calcium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Calcium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Chromium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Chromium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Cobalt	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Cobalt, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Copper	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Copper, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Iron	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Iron, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Lead	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Lead (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Magnesium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Magnesium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Manganese	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Manganese, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y



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BK34764	Mercury	12/08/15	12/10/15	12/10/15	RS	Y
BK34764	Mercury (Dissolved)	12/08/15	12/10/15	12/10/15	RS	Y
BK34764	Nickel	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Nickel, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Pesticides	12/08/15	12/09/15	12/11/15	CE	Y
BK34764	Polychlorinated Biphenyls	12/08/15	12/09/15	12/10/15	AW	Y
BK34764	Potassium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Potassium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Selenium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Selenium, (Dissolved)	12/08/15	12/09/15	12/14/15	RS	Y
BK34764	Semivolatiles	12/08/15	12/09/15	12/11/15	DD	Y
BK34764	Silver	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Silver (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Sodium	12/08/15	12/10/15	12/11/15	EK	Y
BK34764	Sodium (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Thallium , (Dissolved)	12/08/15	12/09/15	12/14/15	RS	Y
BK34764	Thallium - LDL	12/08/15	12/10/15	12/14/15	RS	Y
BK34764	Vanadium	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Vanadium, (Dissolved)	12/08/15	12/09/15	12/10/15	EK	Y
BK34764	Volatiles	12/08/15	12/10/15	12/10/15	MH	Y
BK34764	Zinc	12/08/15	12/10/15	12/12/15	EK	Y
BK34764	Zinc, (Dissolved)	12/08/15	12/09/15	12/12/15	LK	Y
BK34765	Volatiles	12/08/15	12/09/15	12/09/15	MH	Y





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## SDG Comments

January 11, 2016

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Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.

8260 Volatile Organics:

1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 to achieve this criteria.

SIM Analysis:

The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

Toxaphene is reported to the lowest possible reporting level. The NY TOGS criteria for this compound can not be achieved.



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**Analysis Report**  
 January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date

12/08/15  
 12/09/15

Time

15:22

Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34758

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.025	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Aluminum	54.9	* 0.050	0.012	mg/L	5	12/12/15	EK	SW6010C
Arsenic - LDL	0.025	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Barium	0.697	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Beryllium	< 0.003	0.003	0.003	mg/L	5	12/12/15	EK	SW6010C
Calcium	400	0.050	0.015	mg/L	5	12/12/15	EK	SW6010C
Cadmium	< 0.005	0.005	0.0025	mg/L	5	12/12/15	EK	SW6010C
Cobalt	0.028	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Chromium	0.098	0.005	0.005	mg/L	5	12/12/15	EK	SW6010C
Copper	0.213	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Silver (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Aluminum (Dissolved)	0.029	0.011	0.005	mg/L	1	12/10/15	EK	SW6010C
Arsenic, (Dissolved)	0.003	0.003	0.004	mg/L	1	12/10/15	EK	SW6010C
Barium (Dissolved)	0.240	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Calcium (Dissolved)	325	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Cadmium (Dissolved)	< 0.004	0.004	0.0005	mg/L	1	12/10/15	EK	SW6010C
Cobalt, (Dissolved)	0.002	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Copper, (Dissolved)	0.002	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Iron, (Dissolved)	0.03	0.01	0.01	mg/L	1	12/10/15	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium (Dissolved)	98.2	1.1	0.11	mg/L	10	12/10/15	EK	SW6010C
Magnesium (Dissolved)	105	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Manganese, (Dissolved)	0.566	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Sodium (Dissolved)	972	11	1.1	mg/L	100	12/10/15	EK	SW6010C
Nickel, (Dissolved)	0.003	B 0.004	0.001	mg/L	1	12/10/15	EK	SW6010C
Lead (Dissolved)	0.005	0.002	0.001	mg/L	1	12/10/15	EK	SW6010C

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	1	12/15/15	RS	SW7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	1	12/10/15	RS	SW7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium, (Dissolved)	< 0.011	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Zinc, (Dissolved)	0.006	B 0.053	0.005	mg/L	5	12/12/15	LK	SW6010C
Iron	86.4	0.05	0.05	mg/L	5	12/12/15	EK	SW6010C
Mercury	< 0.0002	0.0002	0.00015	mg/L	1	12/11/15	RS	SW7470A
Potassium	107	0.5	0.5	mg/L	5	12/12/15	EK	SW6010C
Magnesium	137	0.05	0.005	mg/L	5	12/12/15	EK	SW6010C
Manganese	2.02	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Sodium	982	10	10	mg/L	100	12/11/15	EK	SW6010C
Nickel	0.070	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Lead	1.34	* 0.010	0.005	mg/L	5	12/12/15	EK	SW6010C
Antimony	< 0.002	0.002	0.002	mg/L	1	12/15/15	RS	SW7010
Selenium	< 0.01	0.01	0.01	mg/L	5	12/12/15	EK	SW6010C
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium	0.104	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Zinc	0.545	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Filtration	Completed					12/09/15	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					12/10/15	W/W	SW7470A
Mercury Digestion	Completed					12/11/15	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					12/09/15	L	SW3510C
Extraction for Pest (2 Liter)	Completed					12/09/15	L	SW3510C
Semi-Volatile Extraction	Completed					12/09/15	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					12/09/15	AG	SW3005A
Total Metals Digestion	Completed					12/10/15	AG	SW3050B

### Pesticides

4,4' -DDD	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
4,4' -DDE	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
4,4' -DDT	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
a-BHC	ND	0.005	0.005	ug/L	1	12/11/15	C/P	SW8081B
a-chlordane	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Alachlor	ND	0.075	0.075	ug/L	1	12/11/15	C/P	SW8081B
Aldrin	ND	0.002	0.002	ug/L	1	12/11/15	C/P	SW8081B
b-BHC	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Chlordane	ND	0.050	0.050	ug/L	1	12/11/15	C/P	SW8081B
d-BHC	ND	0.005	0.005	ug/L	1	12/11/15	C/P	SW8081B
Dieldrin	ND	0.004	0.004	ug/L	1	12/11/15	C/P	SW8081B
Endosulfan I	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Endosulfan II	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Endrin	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Endrin ketone	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
g-BHC (Lindane)	ND	0.020	0.020	ug/L	1	12/11/15	C/P	SW8081B
g-chlordane	ND	0.020	0.020	ug/L	1	12/11/15	C/P	SW8081B
Heptachlor	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	12/11/15	C/P	SW8081B
Methoxychlor	ND	0.10	0.10	ug/L	1	12/11/15	C/P	SW8081B

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	0.25	0.25	ug/L	1	12/11/15	C/P	SW8081B
<b><u>QA/QC Surrogates</u></b>								
%DCBP (Surrogate Rec)	41			%	1	12/11/15	C/P	SW8081B
%TCMX (Surrogate Rec)	81			%	1	12/11/15	C/P	SW8081B
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	43			%	1	12/10/15	AW	30 - 150 %
% TCMX	63			%	1	12/10/15	AW	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	12/11/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Acetone	6.4	S 5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	12/11/15	MH	SW8260C

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/11/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Methyl ethyl ketone	3.5	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	12/11/15	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	12/11/15	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Toluene	1.0	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	100			%	1	12/11/15	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	12/11/15	MH	70 - 130 %
% Dibromofluoromethane	98			%	1	12/11/15	MH	70 - 130 %
% Toluene-d8	99			%	1	12/11/15	MH	70 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	12/14/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	12/14/15	DD	SW8270D
3-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Chloroaniline	ND	3.5	2.3	ug/L	1	12/14/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Acenaphthene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Acetophenone	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Aniline	ND	3.5	5.0	ug/L	1	12/14/15	DD	SW8270D
Anthracene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Benzidine	ND	4.5	2.9	ug/L	1	12/14/15	DD	SW8270D
Benzoic acid	ND	25	10	ug/L	1	12/14/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Carbazole	ND	25	3.8	ug/L	1	12/14/15	DD	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Diethyl phthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Dimethylphthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Fluoranthene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Fluorene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Isophorone	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Naphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D

Client ID: MW 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	12/14/15	DD	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Pyrene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Pyridine	ND	10	1.2	ug/L	1	12/14/15	DD	SW8270D
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	93			%	1	12/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	77			%	1	12/14/15	DD	30 - 130 %
% 2-Fluorophenol	37			%	1	12/14/15	DD	15 - 110 %
% Nitrobenzene-d5	57			%	1	12/14/15	DD	30 - 130 %
% Phenol-d5	53			%	1	12/14/15	DD	15 - 110 %
% Terphenyl-d14	78			%	1	12/14/15	DD	30 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benz(a)anthracene	0.51	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(a)pyrene	0.51	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.38	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.28	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.41	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	12/11/15	DD	SW8270D (SIM)
Chrysene	0.53	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.08	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.40	0.40	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.26	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	1	12/11/15	DD	SW8270D (SIM)
Phenanthrene	0.79	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	110			%	1	12/11/15	DD	15 - 110 %
% 2-Fluorobiphenyl	72			%	1	12/11/15	DD	30 - 130 %
% 2-Fluorophenol	50			%	1	12/11/15	DD	15 - 110 %
% Nitrobenzene-d5	69			%	1	12/11/15	DD	30 - 130 %
% Phenol-d5	70			%	1	12/11/15	DD	15 - 110 %
% Terphenyl-d14	86			%	1	12/11/15	DD	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

**Pesticide Comment:**

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**





Environmental Laboratories, Inc.  
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**Analysis Report**  
 January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date

12/08/15  
 12/09/15

Time

15:22

Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34759

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: MW 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.025	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Aluminum	7.12	* 0.050	0.012	mg/L	5	12/12/15	EK	SW6010C
Arsenic - LDL	< 0.020	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Barium	0.134	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Beryllium	< 0.003	0.003	0.003	mg/L	5	12/12/15	EK	SW6010C
Calcium	161	0.050	0.015	mg/L	5	12/12/15	EK	SW6010C
Cadmium	< 0.005	0.005	0.0025	mg/L	5	12/12/15	EK	SW6010C
Cobalt	0.008	B 0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Chromium	0.014	0.005	0.005	mg/L	5	12/12/15	EK	SW6010C
Copper	0.015	B 0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Silver (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Aluminum (Dissolved)	0.014	0.011	0.005	mg/L	1	12/10/15	EK	SW6010C
Arsenic, (Dissolved)	< 0.003	0.003	0.004	mg/L	1	12/10/15	EK	SW6010C
Barium (Dissolved)	0.098	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Calcium (Dissolved)	164	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Cadmium (Dissolved)	< 0.004	0.004	0.0005	mg/L	1	12/10/15	EK	SW6010C
Cobalt, (Dissolved)	0.004	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Copper, (Dissolved)	0.001	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Iron, (Dissolved)	0.02	0.01	0.01	mg/L	1	12/10/15	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium (Dissolved)	51.2	0.1	0.01	mg/L	1	12/10/15	EK	SW6010C
Magnesium (Dissolved)	61.0	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Manganese, (Dissolved)	4.11	0.053	0.011	mg/L	10	12/10/15	EK	SW6010C
Sodium (Dissolved)	295	1.1	0.11	mg/L	10	12/10/15	EK	SW6010C
Nickel, (Dissolved)	0.004	B 0.004	0.001	mg/L	1	12/10/15	EK	SW6010C
Lead (Dissolved)	0.001	B 0.002	0.001	mg/L	1	12/10/15	EK	SW6010C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	1	12/15/15	RS	SW7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	1	12/10/15	RS	SW7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	1	12/11/15	RS	SW7010
Vanadium, (Dissolved)	< 0.011	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Zinc, (Dissolved)	0.006	B 0.053	0.005	mg/L	5	12/12/15	LK	SW6010C
Iron	11.0	0.05	0.05	mg/L	5	12/12/15	EK	SW6010C
Mercury	< 0.0002	0.0002	0.00015	mg/L	1	12/11/15	RS	SW7470A
Potassium	51.3	0.5	0.5	mg/L	5	12/12/15	EK	SW6010C
Magnesium	61.7	0.05	0.005	mg/L	5	12/12/15	EK	SW6010C
Manganese	4.21	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Sodium	343	10	10	mg/L	100	12/11/15	EK	SW6010C
Nickel	0.005	B 0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Lead	0.041	* 0.010	0.005	mg/L	5	12/12/15	EK	SW6010C
Antimony	< 0.002	0.002	0.002	mg/L	1	12/15/15	RS	SW7010
Selenium	< 0.01	0.01	0.01	mg/L	5	12/12/15	EK	SW6010C
Thallium - LDL	0.0006	0.0005	0.0005	mg/L	1	12/11/15	RS	SW7010
Vanadium	0.015	B 0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Zinc	0.037	B 0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Filtration	Completed					12/09/15	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					12/10/15	W/W	SW7470A
Mercury Digestion	Completed					12/11/15	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					12/09/15	L	SW3510C
Extraction for Pest (2 Liter)	Completed					12/09/15	L	SW3510C
Semi-Volatile Extraction	Completed					12/09/15	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					12/09/15	AG	SW3005A
Total Metals Digestion	Completed					12/10/15	AG	SW3050B

**Pesticides**

4,4' -DDD	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
4,4' -DDE	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
4,4' -DDT	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
a-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
a-chlordane	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Alachlor	ND	0.075	0.075	ug/L	1	12/11/15	CE	SW8081B
Aldrin	ND	0.002	0.002	ug/L	1	12/11/15	CE	SW8081B
b-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
Chlordane	ND	0.050	0.050	ug/L	1	12/11/15	CE	SW8081B
d-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
Dieldrin	ND	0.002	0.002	ug/L	1	12/11/15	CE	SW8081B
Endosulfan I	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endosulfan II	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin ketone	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
g-chlordane	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Heptachlor	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Methoxychlor	ND	0.10	0.10	ug/L	1	12/11/15	CE	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	0.25	0.25	ug/L	1	12/11/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
%DCBP (Surrogate Rec)	44			%	1	12/11/15	CE	SW8081B
%TCMX (Surrogate Rec)	75			%	1	12/11/15	CE	SW8081B
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	64			%	1	12/10/15	AW	30 - 150 %
% TCMX	65			%	1	12/10/15	AW	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	12/09/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	12/09/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	12/09/15	MH	SW8260C

Client ID: MW 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chloromethane	3.6	J 5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
cis-1,2-Dichloroethene	0.27	J 1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/09/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/09/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	1.3	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	12/09/15	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	12/09/15	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/09/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C
Trichloroethene	0.26	J 1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	99			%	1	12/09/15	MH	70 - 130 %
% Bromofluorobenzene	97			%	1	12/09/15	MH	70 - 130 %
% Dibromofluoromethane	101			%	1	12/09/15	MH	70 - 130 %
% Toluene-d8	105			%	1	12/09/15	MH	70 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D

Client ID: MW 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	12/14/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	1.8	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	12/14/15	DD	SW8270D
3-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Chloroaniline	ND	3.5	2.3	ug/L	1	12/14/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Acenaphthene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Acetophenone	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Aniline	ND	3.5	5.0	ug/L	1	12/14/15	DD	SW8270D
Anthracene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Benzidine	ND	4.5	2.9	ug/L	1	12/14/15	DD	SW8270D
Benzoic acid	25	25	10	ug/L	1	12/14/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Carbazole	ND	25	3.8	ug/L	1	12/14/15	DD	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Diethyl phthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Dimethylphthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Fluoranthene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Fluorene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Isophorone	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Naphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	12/14/15	DD	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Pyrene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Pyridine	ND	10	1.2	ug/L	1	12/14/15	DD	SW8270D
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	106			%	1	12/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	63			%	1	12/14/15	DD	30 - 130 %
% 2-Fluorophenol	32			%	1	12/14/15	DD	15 - 110 %
% Nitrobenzene-d5	47			%	1	12/14/15	DD	30 - 130 %
% Phenol-d5	55			%	1	12/14/15	DD	15 - 110 %
% Terphenyl-d14	53			%	1	12/14/15	DD	30 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benz(a)anthracene	0.66	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(a)pyrene	0.58	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.46	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.31	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.48	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	12/11/15	DD	SW8270D (SIM)
Chrysene	0.63	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.11	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.40	0.40	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.30	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	1	12/11/15	DD	SW8270D (SIM)
Phenanthrene	0.91	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	114			%	1	12/11/15	DD	15 - 110 %
% 2-Fluorobiphenyl	59			%	1	12/11/15	DD	30 - 130 %
% 2-Fluorophenol	40			%	1	12/11/15	DD	15 - 110 %
% Nitrobenzene-d5	49			%	1	12/11/15	DD	30 - 130 %
% Phenol-d5	63			%	1	12/11/15	DD	15 - 110 %
% Terphenyl-d14	56			%	1	12/11/15	DD	30 - 130 %

3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

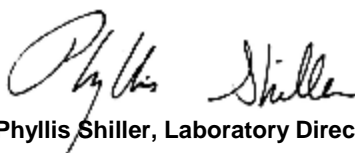
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

**Semi-Volatile Comment:**

One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

## Date

12/08/15

## Time

15:22

## Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34760

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.025	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Aluminum	20.9	* 0.050	0.012	mg/L	5	12/12/15	EK	SW6010C
Arsenic - LDL	0.005	B 0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Barium	0.418	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Beryllium	< 0.003	0.003	0.003	mg/L	5	12/12/15	EK	SW6010C
Calcium	415	0.050	0.015	mg/L	5	12/12/15	EK	SW6010C
Cadmium	< 0.005	0.005	0.0025	mg/L	5	12/12/15	EK	SW6010C
Cobalt	0.010	B 0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Chromium	0.027	0.005	0.005	mg/L	5	12/12/15	EK	SW6010C
Copper	0.054	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Silver (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Aluminum (Dissolved)	0.045	0.011	0.005	mg/L	1	12/10/15	EK	SW6010C
Arsenic, (Dissolved)	< 0.003	0.003	0.004	mg/L	1	12/10/15	EK	SW6010C
Barium (Dissolved)	0.242	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Calcium (Dissolved)	399	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Cadmium (Dissolved)	< 0.004	0.004	0.0005	mg/L	1	12/10/15	EK	SW6010C
Cobalt, (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Copper, (Dissolved)	0.001	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Iron, (Dissolved)	< 0.05	0.05	0.05	mg/L	5	12/12/15	LK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium (Dissolved)	226	1.1	0.11	mg/L	10	12/10/15	EK	SW6010C
Magnesium (Dissolved)	445	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Manganese, (Dissolved)	0.164	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Sodium (Dissolved)	4270	11	1.1	mg/L	100	12/10/15	EK	SW6010C
Nickel, (Dissolved)	< 0.004	0.004	0.001	mg/L	1	12/10/15	EK	SW6010C
Lead (Dissolved)	0.005	0.002	0.001	mg/L	1	12/10/15	EK	SW6010C



Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	1	12/15/15	RS	SW7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	1	12/10/15	RS	SW7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium, (Dissolved)	0.003	B 0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Zinc, (Dissolved)	< 0.053	0.053	0.005	mg/L	5	12/12/15	LK	SW6010C
Iron	24.6	0.05	0.05	mg/L	5	12/12/15	EK	SW6010C
Mercury	< 0.0002	0.0002	0.00015	mg/L	1	12/11/15	RS	SW7470A
Potassium	176	0.5	0.5	mg/L	5	12/12/15	EK	SW6010C
Magnesium	434	1.0	0.10	mg/L	100	12/11/15	EK	SW6010C
Manganese	0.620	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Sodium	4720	10	10	mg/L	100	12/11/15	EK	SW6010C
Nickel	0.014	B 0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Lead	0.398	* 0.010	0.005	mg/L	5	12/12/15	EK	SW6010C
Antimony	0.004	0.002	0.002	mg/L	1	12/15/15	RS	SW7010
Selenium	< 0.01	0.01	0.01	mg/L	5	12/12/15	EK	SW6010C
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium	0.029	B 0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Zinc	0.257	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Filtration	Completed					12/09/15	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					12/10/15	W/W	SW7470A
Mercury Digestion	Completed					12/11/15	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					12/09/15	L	SW3510C
Extraction for Pest (2 Liter)	Completed					12/09/15	L	SW3510C
Semi-Volatile Extraction	Completed					12/09/15	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					12/09/15	AG	SW3005A
Total Metals Digestion	Completed					12/10/15	AG	SW3050B
<b>Pesticides</b>								
4,4' -DDD	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
4,4' -DDE	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
4,4' -DDT	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
a-BHC	ND	0.005	0.005	ug/L	1	12/14/15	CE	SW8081B
a-chlordane	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Alachlor	ND	0.075	0.075	ug/L	1	12/14/15	CE	SW8081B
Aldrin	ND	0.002	0.002	ug/L	1	12/14/15	CE	SW8081B
b-BHC	ND	0.005	0.005	ug/L	1	12/14/15	CE	SW8081B
Chlordane	ND	0.050	0.050	ug/L	1	12/14/15	CE	SW8081B
d-BHC	ND	0.005	0.005	ug/L	1	12/14/15	CE	SW8081B
Dieldrin	ND	0.002	0.002	ug/L	1	12/14/15	CE	SW8081B
Endosulfan I	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Endosulfan II	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Endrin	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Endrin ketone	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	12/14/15	CE	SW8081B
g-chlordane	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Heptachlor	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	12/14/15	CE	SW8081B
Methoxychlor	ND	0.10	0.10	ug/L	1	12/14/15	CE	SW8081B

Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	0.20	0.20	ug/L	1	12/14/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
%DCBP (Surrogate Rec)	47			%	1	12/14/15	CE	SW8081B
%TCMX (Surrogate Rec)	65			%	1	12/14/15	CE	SW8081B
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	81			%	1	12/12/15	AW	30 - 150 %
% TCMX	81			%	1	12/12/15	AW	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	12/11/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	12/11/15	MH	SW8260C

Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/11/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	12/11/15	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	12/11/15	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Toluene	1.1	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	1	12/11/15	MH	70 - 130 %
% Bromofluorobenzene	88			%	1	12/11/15	MH	70 - 130 %
% Dibromofluoromethane	95			%	1	12/11/15	MH	70 - 130 %
% Toluene-d8	100			%	1	12/11/15	MH	70 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D

Client ID: MW 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	12/14/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	12/14/15	DD	SW8270D
3-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Chloroaniline	ND	3.5	2.3	ug/L	1	12/14/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Acenaphthene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Acetophenone	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Aniline	ND	3.5	5.0	ug/L	1	12/14/15	DD	SW8270D
Anthracene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Benzidine	ND	4.5	2.9	ug/L	1	12/14/15	DD	SW8270D
Benzoic acid	ND	25	10	ug/L	1	12/14/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Carbazole	ND	25	3.8	ug/L	1	12/14/15	DD	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Diethyl phthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Dimethylphthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Fluoranthene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Fluorene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Isophorone	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Naphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	12/14/15	DD	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Pyrene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Pyridine	ND	10	1.2	ug/L	1	12/14/15	DD	SW8270D
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	97			%	1	12/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	71			%	1	12/14/15	DD	30 - 130 %
% 2-Fluorophenol	14			%	1	12/14/15	DD	15 - 110 %
% Nitrobenzene-d5	36			%	1	12/14/15	DD	30 - 130 %
% Phenol-d5	45			%	1	12/14/15	DD	15 - 110 %
% Terphenyl-d14	59			%	1	12/14/15	DD	30 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benz(a)anthracene	0.09	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(a)pyrene	0.08	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.06	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.04	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.06	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	12/11/15	DD	SW8270D (SIM)
Chrysene	0.08	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.40	0.40	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.04	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	1	12/11/15	DD	SW8270D (SIM)
Phenanthrene	0.16	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	107			%	1	12/11/15	DD	15 - 110 %
% 2-Fluorobiphenyl	65			%	1	12/11/15	DD	30 - 130 %
% 2-Fluorophenol	18			%	1	12/11/15	DD	15 - 110 %
% Nitrobenzene-d5	40			%	1	12/11/15	DD	30 - 130 %
% Phenol-d5	55			%	1	12/11/15	DD	15 - 110 %
% Terphenyl-d14	69			%	1	12/11/15	DD	30 - 130 %

3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

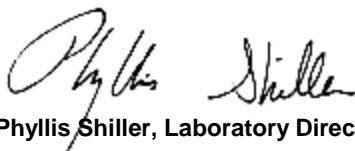
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

**Semi-Volatile Comment:**

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date

12/08/15  
 12/09/15

Time

15:22

Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34761

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: MW 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.025	0.025	0.005	mg/L	5	12/11/15	EK	SW6010C
Aluminum	0.442	* 0.050	0.012	mg/L	5	12/11/15	EK	SW6010C
Arsenic - LDL	< 0.020	0.020	0.005	mg/L	5	12/11/15	EK	SW6010C
Barium	0.025	B 0.050	0.005	mg/L	5	12/11/15	EK	SW6010C
Beryllium	< 0.003	0.003	0.003	mg/L	5	12/11/15	EK	SW6010C
Calcium	216	0.050	0.015	mg/L	5	12/11/15	EK	SW6010C
Cadmium	< 0.005	0.005	0.0025	mg/L	5	12/11/15	EK	SW6010C
Cobalt	< 0.025	0.025	0.005	mg/L	5	12/11/15	EK	SW6010C
Chromium	< 0.005	0.005	0.005	mg/L	5	12/11/15	EK	SW6010C
Copper	< 0.025	0.025	0.005	mg/L	5	12/11/15	EK	SW6010C
Silver (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Aluminum (Dissolved)	0.015	0.011	0.005	mg/L	1	12/10/15	EK	SW6010C
Arsenic, (Dissolved)	< 0.003	0.003	0.004	mg/L	1	12/10/15	EK	SW6010C
Barium (Dissolved)	0.026	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Calcium (Dissolved)	220	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Cadmium (Dissolved)	< 0.004	0.004	0.0005	mg/L	1	12/10/15	EK	SW6010C
Cobalt, (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Copper, (Dissolved)	0.004	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Iron, (Dissolved)	< 0.01	0.01	0.01	mg/L	1	12/10/15	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium (Dissolved)	267	1.1	0.11	mg/L	10	12/10/15	EK	SW6010C
Magnesium (Dissolved)	639	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Manganese, (Dissolved)	0.147	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Sodium (Dissolved)	4860	11	1.1	mg/L	100	12/10/15	EK	SW6010C
Nickel, (Dissolved)	0.004	0.004	0.001	mg/L	1	12/10/15	EK	SW6010C
Lead (Dissolved)	< 0.002	0.002	0.001	mg/L	1	12/10/15	EK	SW6010C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	1	12/15/15	RS	SW7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	1	12/10/15	RS	SW7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium, (Dissolved)	0.002	B 0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Zinc, (Dissolved)	0.017	B 0.053	0.005	mg/L	5	12/12/15	LK	SW6010C
Iron	0.22	0.05	0.05	mg/L	5	12/11/15	EK	SW6010C
Mercury	< 0.0002	0.0002	0.00015	mg/L	1	12/11/15	RS	SW7470A
Potassium	191	0.5	0.5	mg/L	5	12/11/15	EK	SW6010C
Magnesium	606	1.0	0.10	mg/L	100	12/11/15	EK	SW6010C
Manganese	0.149	0.025	0.005	mg/L	5	12/11/15	EK	SW6010C
Sodium	5470	10	10	mg/L	100	12/11/15	EK	SW6010C
Nickel	< 0.020	0.020	0.005	mg/L	5	12/11/15	EK	SW6010C
Lead	0.016	* 0.010	0.005	mg/L	5	12/11/15	EK	SW6010C
Antimony	0.008	0.002	0.002	mg/L	1	12/15/15	RS	SW7010
Selenium	< 0.01	0.01	0.01	mg/L	5	12/11/15	EK	SW6010C
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium	< 0.050	0.050	0.005	mg/L	5	12/11/15	EK	SW6010C
Zinc	0.019	B 0.050	0.005	mg/L	5	12/11/15	EK	SW6010C
Filtration	Completed					12/09/15	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					12/10/15	W/W	SW7470A
Mercury Digestion	Completed					12/11/15	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					12/09/15	L	SW3510C
Extraction for Pest (2 Liter)	Completed					12/09/15	L	SW3510C
Semi-Volatile Extraction	Completed					12/09/15	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					12/09/15	AG	SW3005A
Total Metals Digestion	Completed					12/10/15	AG	SW3050B

**Pesticides**

4,4' -DDD	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
4,4' -DDE	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
4,4' -DDT	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
a-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
a-chlordane	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Alachlor	ND	0.075	0.075	ug/L	1	12/11/15	CE	SW8081B
Aldrin	ND	0.002	0.002	ug/L	1	12/11/15	CE	SW8081B
b-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
Chlordane	ND	0.050	0.050	ug/L	1	12/11/15	CE	SW8081B
d-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
Dieldrin	ND	0.002	0.002	ug/L	1	12/11/15	CE	SW8081B
Endosulfan I	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endosulfan II	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin ketone	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
g-chlordane	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Heptachlor	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Methoxychlor	ND	0.10	0.10	ug/L	1	12/11/15	CE	SW8081B



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	0.25	0.25	ug/L	1	12/11/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
%DCBP (Surrogate Rec)	53			%	1	12/11/15	CE	SW8081B
%TCMX (Surrogate Rec)	71			%	1	12/11/15	CE	SW8081B
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	70			%	1	12/10/15	AW	30 - 150 %
% TCMX	67			%	1	12/10/15	AW	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,1,1-Trichloroethane	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,1-Dichloroethane	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,1-Dichloroethene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,1-Dichloropropene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2,3-Trichlorobenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2,3-Trichloropropane	ND	1.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2,4-Trimethylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	1.0	ug/L	2	12/09/15	M/P	SW8260C
1,2-Dibromoethane	ND	1.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,2-Dichloropropane	ND	0.50	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,3,5-Trimethylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,3-Dichloropropane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
2,2-Dichloropropane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
2-Chlorotoluene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
2-Hexanone	ND	5.0	5.0	ug/L	2	12/09/15	M/P	SW8260C
2-Isopropyltoluene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
4-Chlorotoluene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
4-Methyl-2-pentanone	ND	5.0	5.0	ug/L	2	12/09/15	M/P	SW8260C
Acetone	ND	10	5.0	ug/L	2	12/09/15	M/P	SW8260C
Acrolein	ND	5.0	5.0	ug/L	2	12/09/15	M/P	SW8260C
Acrylonitrile	ND	4.0	5.0	ug/L	2	12/09/15	M/P	SW8260C
Benzene	ND	0.70	0.50	ug/L	2	12/09/15	M/P	SW8260C

Client ID: MW 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Bromochloromethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Bromodichloromethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Bromoform	ND	10	0.50	ug/L	2	12/09/15	M/P	SW8260C
Bromomethane	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Carbon Disulfide	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Carbon tetrachloride	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Chlorobenzene	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Chloroethane	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Chloroform	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Chloromethane	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
cis-1,2-Dichloroethene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.40	ug/L	2	12/09/15	M/P	SW8260C
Dibromochloromethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Dibromomethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Dichlorodifluoromethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Ethylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Hexachlorobutadiene	ND	0.40	0.40	ug/L	2	12/09/15	M/P	SW8260C
Isopropylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
m&p-Xylene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Methyl ethyl ketone	ND	5.0	5.0	ug/L	2	12/09/15	M/P	SW8260C
Methyl t-butyl ether (MTBE)	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Methylene chloride	ND	4.0	2.0	ug/L	2	12/09/15	M/P	SW8260C
Naphthalene	ND	2.0	2.0	ug/L	2	12/09/15	M/P	SW8260C
n-Butylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
n-Propylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
o-Xylene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
p-Isopropyltoluene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
sec-Butylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Styrene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
tert-Butylbenzene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Tetrachloroethene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Tetrahydrofuran (THF)	ND	10	5.0	ug/L	2	12/09/15	M/P	SW8260C
Toluene	1.4	J 2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
trans-1,2-Dichloroethene	ND	4.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.40	ug/L	2	12/09/15	M/P	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	5.0	ug/L	2	12/09/15	M/P	SW8260C
Trichloroethene	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Trichlorofluoromethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Trichlorotrifluoroethane	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
Vinyl chloride	ND	2.0	0.50	ug/L	2	12/09/15	M/P	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	102			%	2	12/09/15	M/P	70 - 130 %
% Bromofluorobenzene	95			%	2	12/09/15	M/P	70 - 130 %
% Dibromofluoromethane	100			%	2	12/09/15	M/P	70 - 130 %
% Toluene-d8	101			%	2	12/09/15	M/P	70 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D

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Client ID: MW 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	12/14/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	12/14/15	DD	SW8270D
3-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Chloroaniline	ND	3.5	2.3	ug/L	1	12/14/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Acenaphthene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Acetophenone	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Aniline	ND	3.5	5.0	ug/L	1	12/14/15	DD	SW8270D
Anthracene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Benzidine	ND	4.5	2.9	ug/L	1	12/14/15	DD	SW8270D
Benzoic acid	ND	25	10	ug/L	1	12/14/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Carbazole	ND	25	3.8	ug/L	1	12/14/15	DD	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Diethyl phthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Dimethylphthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Fluoranthene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Fluorene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Isophorone	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Naphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	12/14/15	DD	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Pyrene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Pyridine	ND	10	1.2	ug/L	1	12/14/15	DD	SW8270D
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	87			%	1	12/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	49			%	1	12/14/15	DD	30 - 130 %
% 2-Fluorophenol	16			%	1	12/14/15	DD	15 - 110 %
% Nitrobenzene-d5	26			%	1	12/14/15	DD	30 - 130 %
% Phenol-d5	36			%	1	12/14/15	DD	15 - 110 %
% Terphenyl-d14	83			%	1	12/14/15	DD	30 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	12/11/15	DD	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.40	0.40	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	1	12/11/15	DD	SW8270D (SIM)
Phenanthrene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	98			%	1	12/11/15	DD	15 - 110 %
% 2-Fluorobiphenyl	46			%	1	12/11/15	DD	30 - 130 %
% 2-Fluorophenol	20			%	1	12/11/15	DD	15 - 110 %
% Nitrobenzene-d5	27			%	1	12/11/15	DD	30 - 130 %
% Phenol-d5	45			%	1	12/11/15	DD	15 - 110 %
% Terphenyl-d14	91			%	1	12/11/15	DD	30 - 130 %

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

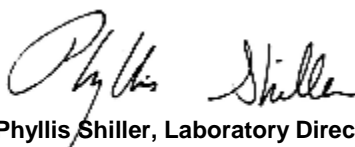
**Semi-Volatile Comment:**

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

**Volatile Comment:**

Due the presence of material that causes the sample to "foam" on the instrument, this sample required a dilution, some compounds are evaluated below the lowest calibration standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date

12/08/15  
 12/09/15

Time

15:22

## Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34762

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: MW 5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.025	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Aluminum	74.4	* 0.050	0.012	mg/L	5	12/12/15	EK	SW6010C
Arsenic - LDL	0.062	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Barium	0.981	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Beryllium	< 0.003	0.003	0.003	mg/L	5	12/12/15	EK	SW6010C
Calcium	337	0.050	0.015	mg/L	5	12/12/15	EK	SW6010C
Cadmium	0.011	B 0.020	0.0025	mg/L	5	12/12/15	EK	SW6010C
Cobalt	0.045	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Chromium	0.150	0.005	0.005	mg/L	5	12/12/15	EK	SW6010C
Copper	0.409	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Silver (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Aluminum (Dissolved)	0.021	0.011	0.005	mg/L	1	12/10/15	EK	SW6010C
Arsenic, (Dissolved)	< 0.003	0.003	0.004	mg/L	1	12/10/15	EK	SW6010C
Barium (Dissolved)	0.311	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Calcium (Dissolved)	327	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Cadmium (Dissolved)	0.002	B 0.004	0.0005	mg/L	1	12/10/15	EK	SW6010C
Cobalt, (Dissolved)	0.002	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Copper, (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Iron, (Dissolved)	82.9	0.01	0.01	mg/L	1	12/10/15	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium (Dissolved)	194	1.1	0.11	mg/L	10	12/10/15	EK	SW6010C
Magnesium (Dissolved)	471	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Manganese, (Dissolved)	1.30	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Sodium (Dissolved)	3480	11	1.1	mg/L	100	12/10/15	EK	SW6010C
Nickel, (Dissolved)	0.003	B 0.004	0.001	mg/L	1	12/10/15	EK	SW6010C
Lead (Dissolved)	0.003	0.002	0.001	mg/L	1	12/10/15	EK	SW6010C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	1	12/15/15	RS	SW7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	1	12/10/15	RS	SW7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium, (Dissolved)	< 0.011	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Zinc, (Dissolved)	0.008	B 0.053	0.005	mg/L	5	12/12/15	LK	SW6010C
Iron	344	0.05	0.05	mg/L	5	12/12/15	EK	SW6010C
Mercury	< 0.0002	0.0002	0.00015	mg/L	1	12/11/15	RS	SW7470A
Potassium	170	0.5	0.5	mg/L	5	12/12/15	EK	SW6010C
Magnesium	459	1.0	0.10	mg/L	100	12/11/15	EK	SW6010C
Manganese	2.89	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Sodium	4040	10	10	mg/L	100	12/11/15	EK	SW6010C
Nickel	0.174	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Lead	1.90	* 0.010	0.005	mg/L	5	12/12/15	EK	SW6010C
Antimony	0.005	0.002	0.002	mg/L	1	12/15/15	RS	SW7010
Selenium	< 0.01	0.01	0.01	mg/L	5	12/12/15	EK	SW6010C
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium	0.184	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Zinc	1.21	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Filtration	Completed					12/09/15	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					12/10/15	W/W	SW7470A
Mercury Digestion	Completed					12/11/15	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					12/11/15	L	SW3510C
Extraction for Pest (2 Liter)	Completed					12/11/15	L	SW3510C
Semi-Volatile Extraction	Completed					12/09/15	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					12/09/15	AG	SW3005A
Total Metals Digestion	Completed					12/10/15	AG	SW3050B
<b>Pesticides</b>								
4,4' -DDD	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
4,4' -DDE	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
4,4' -DDT	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
a-BHC	ND	0.012	0.012	ug/L	5	12/11/15	CE	SW8081B
a-chlordane	ND	0.050	0.050	ug/L	5	12/11/15	CE	SW8081B
Alachlor	ND	0.38	0.38	ug/L	5	12/11/15	CE	SW8081B
Aldrin	ND	0.008	0.008	ug/L	5	12/11/15	CE	SW8081B
b-BHC	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
Chlordane	ND	0.25	0.25	ug/L	5	12/11/15	CE	SW8081B
d-BHC	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
Dieldrin	ND	0.008	0.008	ug/L	5	12/11/15	CE	SW8081B
Endosulfan I	ND	0.050	0.050	ug/L	5	12/11/15	CE	SW8081B
Endosulfan II	ND	0.050	0.050	ug/L	5	12/11/15	CE	SW8081B
Endosulfan Sulfate	ND	0.050	0.050	ug/L	5	12/11/15	CE	SW8081B
Endrin	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
Endrin Aldehyde	ND	0.050	0.050	ug/L	5	12/11/15	CE	SW8081B
Endrin ketone	ND	0.050	0.050	ug/L	5	12/11/15	CE	SW8081B
g-BHC (Lindane)	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
g-chlordane	ND	0.050	0.050	ug/L	5	12/11/15	CE	SW8081B
Heptachlor	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	0.025	0.025	ug/L	5	12/11/15	CE	SW8081B
Methoxychlor	ND	0.50	0.50	ug/L	5	12/11/15	CE	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	1.3	1.3	ug/L	5	12/11/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
%DCBP (Surrogate Rec)	75			%	5	12/11/15	CE	SW8081B
%TCMX (Surrogate Rec)	76			%	5	12/11/15	CE	SW8081B
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1221	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1232	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1242	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1248	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1254	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1260	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1262	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
PCB-1268	ND	0.077	0.077	ug/L	1	12/14/15	AW	E608/SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	17			%	1	12/14/15	AW	30 - 150 %
% TCMX	64			%	1	12/14/15	AW	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	12/11/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	12/11/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Acetone	4.5	JS 5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	12/11/15	MH	SW8260C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/11/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	12/11/15	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	12/11/15	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/11/15	MH	SW8260C
Toluene	0.55	J 1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/11/15	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/11/15	MH	SW8260C
<b>QA/QC Surrogates</b>								
% 1,2-dichlorobenzene-d4	105			%	1	12/11/15	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	12/11/15	MH	70 - 130 %
% Dibromofluoromethane	98			%	1	12/11/15	MH	70 - 130 %
% Toluene-d8	101			%	1	12/11/15	MH	70 - 130 %
<b>Semivolatiles</b>								
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	12/14/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	12/14/15	DD	SW8270D
3-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Chloroaniline	ND	3.5	2.3	ug/L	1	12/14/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Acenaphthene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Acetophenone	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Aniline	ND	3.5	5.0	ug/L	1	12/14/15	DD	SW8270D
Anthracene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Benzidine	ND	4.5	2.9	ug/L	1	12/14/15	DD	SW8270D
Benzoic acid	ND	25	10	ug/L	1	12/14/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Carbazole	ND	25	3.8	ug/L	1	12/14/15	DD	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Diethyl phthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Dimethylphthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Fluoranthene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Fluorene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Isophorone	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Naphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	12/14/15	DD	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Pyrene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Pyridine	ND	10	1.2	ug/L	1	12/14/15	DD	SW8270D
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	101			%	1	12/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	80			%	1	12/14/15	DD	30 - 130 %
% 2-Fluorophenol	46			%	1	12/14/15	DD	15 - 110 %
% Nitrobenzene-d5	67			%	1	12/14/15	DD	30 - 130 %
% Phenol-d5	61			%	1	12/14/15	DD	15 - 110 %
% Terphenyl-d14	84			%	1	12/14/15	DD	30 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benz(a)anthracene	0.16	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(a)pyrene	0.16	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.12	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.09	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.12	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	12/11/15	DD	SW8270D (SIM)
Chrysene	0.15	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.40	0.40	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.08	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	1	12/11/15	DD	SW8270D (SIM)
Phenanthrene	0.25	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	107			%	1	12/11/15	DD	15 - 110 %
% 2-Fluorobiphenyl	73			%	1	12/11/15	DD	30 - 130 %
% 2-Fluorophenol	60			%	1	12/11/15	DD	15 - 110 %
% Nitrobenzene-d5	75			%	1	12/11/15	DD	30 - 130 %
% Phenol-d5	77			%	1	12/11/15	DD	15 - 110 %
% Terphenyl-d14	91			%	1	12/11/15	DD	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

**PCB Comment:**

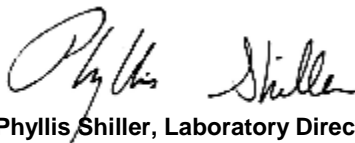
Poor surrogate recovery was observed for PCBs. Sample was re-extracted with similar results.

**Pesticide Comment:**

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported. Sample was evaluated against an external standard.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date

12/08/15  
 12/09/15

Time

15:22

Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34763

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: MW 6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.025	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Aluminum	72.3	* 1.0	0.24	mg/L	100	12/11/15	EK	SW6010C
Arsenic - LDL	0.113	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Barium	2.92	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Beryllium	< 0.003	0.003	0.003	mg/L	5	12/12/15	EK	SW6010C
Calcium	597	0.050	0.015	mg/L	5	12/12/15	EK	SW6010C
Cadmium	0.009	B 0.020	0.0025	mg/L	5	12/12/15	EK	SW6010C
Cobalt	0.068	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Chromium	0.273	0.005	0.005	mg/L	5	12/12/15	EK	SW6010C
Copper	1.07	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Silver (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Aluminum (Dissolved)	0.020	0.011	0.005	mg/L	1	12/10/15	EK	SW6010C
Arsenic, (Dissolved)	< 0.003	0.003	0.004	mg/L	1	12/10/15	EK	SW6010C
Barium (Dissolved)	0.598	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Calcium (Dissolved)	284	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Cadmium (Dissolved)	< 0.004	0.004	0.0005	mg/L	1	12/10/15	EK	SW6010C
Cobalt, (Dissolved)	0.003	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Copper, (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Iron, (Dissolved)	0.20	0.01	0.01	mg/L	1	12/10/15	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium (Dissolved)	57.6	1.1	0.11	mg/L	10	12/10/15	EK	SW6010C
Magnesium (Dissolved)	115	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Manganese, (Dissolved)	1.43	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Sodium (Dissolved)	704	11	1.1	mg/L	100	12/10/15	EK	SW6010C
Nickel, (Dissolved)	0.032	0.004	0.001	mg/L	1	12/10/15	EK	SW6010C
Lead (Dissolved)	< 0.002	0.002	0.001	mg/L	1	12/10/15	EK	SW6010C

Client ID: MW 6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	1	12/15/15	RS	SW7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	1	12/10/15	RS	SW7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium, (Dissolved)	0.002	B 0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Zinc, (Dissolved)	0.007	B 0.053	0.005	mg/L	5	12/12/15	LK	SW6010C
Iron	442	0.05	0.05	mg/L	5	12/12/15	EK	SW6010C
Mercury	< 0.0002	0.0002	0.00015	mg/L	1	12/11/15	RS	SW7470A
Potassium	67	10	10	mg/L	100	12/11/15	EK	SW6010C
Magnesium	172	0.05	0.005	mg/L	5	12/12/15	EK	SW6010C
Manganese	3.83	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Sodium	745	10	10	mg/L	100	12/11/15	EK	SW6010C
Nickel	0.231	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Lead	3.30	* 0.010	0.005	mg/L	5	12/12/15	EK	SW6010C
Antimony	0.010	0.002	0.002	mg/L	1	12/15/15	RS	SW7010
Selenium	< 0.01	0.01	0.01	mg/L	5	12/12/15	EK	SW6010C
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium	0.207	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Zinc	3.78	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Filtration	Completed					12/09/15	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					12/10/15	W/W	SW7470A
Mercury Digestion	Completed					12/11/15	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					12/09/15	L	SW3510C
Extraction for Pest (2 Liter)	Completed					12/09/15	L	SW3510C
Semi-Volatile Extraction	Completed					12/09/15	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					12/09/15	AG	SW3005A
Total Metals Digestion	Completed					12/10/15	AG	SW3050B

### Pesticides

4,4' -DDD	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
4,4' -DDE	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
4,4' -DDT	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
a-BHC	ND	0.13	0.13	ug/L	50	12/14/15	CE	SW8081B
a-chlordane	ND	0.50	0.50	ug/L	50	12/14/15	CE	SW8081B
Alachlor	ND	3.8	3.8	ug/L	50	12/14/15	CE	SW8081B
Aldrin	ND	0.075	0.075	ug/L	50	12/14/15	CE	SW8081B
b-BHC	ND	0.13	0.13	ug/L	50	12/14/15	CE	SW8081B
Chlordane	ND	2.5	2.5	ug/L	50	12/14/15	CE	SW8081B
d-BHC	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Dieldrin	0.49	0.075	0.075	ug/L	50	12/14/15	CE	SW8081B
Endosulfan I	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Endosulfan II	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Endosulfan Sulfate	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Endrin	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Endrin Aldehyde	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Endrin ketone	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
g-BHC (Lindane)	ND	0.13	0.13	ug/L	50	12/14/15	CE	SW8081B
g-chlordane	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Heptachlor	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Heptachlor epoxide	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B
Methoxychlor	ND	0.25	0.25	ug/L	50	12/14/15	CE	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	13	13	ug/L	50	12/14/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
%DCBP (Surrogate Rec)	Diluted Out			%	50	12/14/15	CE	SW8081B
%TCMX (Surrogate Rec)	Diluted Out			%	50	12/14/15	CE	SW8081B
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	12/12/15	AW	E608/SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	44			%	1	12/12/15	AW	30 - 150 %
% TCMX	78			%	1	12/12/15	AW	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,1,1-Trichloroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,1,2-Trichloroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,1-Dichloroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,1-Dichloroethene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,1-Dichloropropene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2,3-Trichloropropane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	5	10	ug/L	20	12/11/15	MH	SW8260C
1,2-Dibromoethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2-Dichlorobenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2-Dichloroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,2-Dichloropropane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,3-Dichlorobenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,3-Dichloropropane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
1,4-Dichlorobenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
2,2-Dichloropropane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
2-Chlorotoluene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
2-Hexanone	ND	50	50	ug/L	20	12/11/15	MH	SW8260C
2-Isopropyltoluene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
4-Chlorotoluene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
4-Methyl-2-pentanone	ND	50	50	ug/L	20	12/11/15	MH	SW8260C
Acetone	ND	50	50	ug/L	20	12/11/15	MH	SW8260C
Acrolein	ND	50	50	ug/L	20	12/11/15	MH	SW8260C
Acrylonitrile	ND	50	50	ug/L	20	12/11/15	MH	SW8260C
Benzene	9.2	J 14	5.0	ug/L	20	12/11/15	MH	SW8260C

Client ID: MW 6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Bromochloromethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Bromodichloromethane	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
Bromoform	ND	50	5.0	ug/L	20	12/11/15	MH	SW8260C
Bromomethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Carbon Disulfide	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
Carbon tetrachloride	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Chlorobenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Chloroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Chloroform	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Chloromethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Dibromochloromethane	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
Dibromomethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Dichlorodifluoromethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Ethylbenzene	280	20	5.0	ug/L	20	12/11/15	MH	SW8260C
Hexachlorobutadiene	ND	5	4.0	ug/L	20	12/11/15	MH	SW8260C
Isopropylbenzene	95	20	5.0	ug/L	20	12/11/15	MH	SW8260C
m&p-Xylene	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
Methyl ethyl ketone	ND	50	50	ug/L	20	12/11/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
Methylene chloride	ND	20	20	ug/L	20	12/11/15	MH	SW8260C
Naphthalene	1300	D 100	100	ug/L	100	12/11/15	MH	SW8260C
n-Butylbenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
n-Propylbenzene	20	J 20	5.0	ug/L	20	12/11/15	MH	SW8260C
o-Xylene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
p-Isopropyltoluene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
sec-Butylbenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Styrene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
tert-Butylbenzene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Tetrachloroethene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	50	50	ug/L	20	12/11/15	MH	SW8260C
Toluene	12	J 20	5.0	ug/L	20	12/11/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5	50	ug/L	20	12/11/15	MH	SW8260C
Trichloroethene	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Trichlorofluoromethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Trichlorotrifluoroethane	ND	5	5.0	ug/L	20	12/11/15	MH	SW8260C
Vinyl chloride	ND	20	5.0	ug/L	20	12/11/15	MH	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	104			%	20	12/11/15	MH	70 - 130 %
% Bromofluorobenzene	89			%	20	12/11/15	MH	70 - 130 %
% Dibromofluoromethane	87			%	20	12/11/15	MH	70 - 130 %
% Toluene-d8	98			%	20	12/11/15	MH	70 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	100	35	ug/L	20	12/14/15	D/P	SW8270D
1,2,4-Trichlorobenzene	ND	100	30	ug/L	20	12/14/15	D/P	SW8270D

1



Client ID: MW 6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	100	28	ug/L	20	12/14/15	D/P	SW8270D
1,2-Diphenylhydrazine	ND	100	33	ug/L	20	12/14/15	D/P	SW8270D
1,3-Dichlorobenzene	ND	100	30	ug/L	20	12/14/15	D/P	SW8270D
1,4-Dichlorobenzene	ND	100	30	ug/L	20	12/14/15	D/P	SW8270D
2,4,5-Trichlorophenol	ND	100	55	ug/L	20	12/14/15	D/P	SW8270D
2,4,6-Trichlorophenol	ND	100	32	ug/L	20	12/14/15	D/P	SW8270D
2,4-Dichlorophenol	ND	100	35	ug/L	20	12/14/15	D/P	SW8270D
2,4-Dimethylphenol	ND	100	25	ug/L	20	12/14/15	D/P	SW8270D
2,4-Dinitrophenol	ND	100	70	ug/L	20	12/14/15	D/P	SW8270D
2,4-Dinitrotoluene	ND	100	39	ug/L	20	12/14/15	D/P	SW8270D
2,6-Dinitrotoluene	ND	100	32	ug/L	20	12/14/15	D/P	SW8270D
2-Chloronaphthalene	ND	100	28	ug/L	20	12/14/15	D/P	SW8270D
2-Chlorophenol	ND	100	28	ug/L	20	12/14/15	D/P	SW8270D
2-Methylnaphthalene	40	J 50	30	ug/L	20	12/14/15	D/P	SW8270D
2-Methylphenol (o-cresol)	ND	100	47	ug/L	20	12/14/15	D/P	SW8270D
2-Nitroaniline	ND	500	100	ug/L	20	12/14/15	D/P	SW8270D
2-Nitrophenol	ND	100	63	ug/L	20	12/14/15	D/P	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	100	39	ug/L	20	12/14/15	D/P	SW8270D
3,3'-Dichlorobenzidine	ND	200	47	ug/L	20	12/14/15	D/P	SW8270D
3-Nitroaniline	ND	500	220	ug/L	20	12/14/15	D/P	SW8270D
4,6-Dinitro-2-methylphenol	ND	500	110	ug/L	20	12/14/15	D/P	SW8270D
4-Bromophenyl phenyl ether	ND	100	29	ug/L	20	12/14/15	D/P	SW8270D
4-Chloro-3-methylphenol	ND	100	35	ug/L	20	12/14/15	D/P	SW8270D
4-Chloroaniline	ND	200	47	ug/L	20	12/14/15	D/P	SW8270D
4-Chlorophenyl phenyl ether	ND	100	34	ug/L	20	12/14/15	D/P	SW8270D
4-Nitroaniline	ND	500	33	ug/L	20	12/14/15	D/P	SW8270D
4-Nitrophenol	ND	100	45	ug/L	20	12/14/15	D/P	SW8270D
Acenaphthene	ND	20	20	ug/L	20	12/14/15	D/P	SW8270D
Acenaphthylene	ND	20	20	ug/L	20	12/14/15	D/P	SW8270D
Acetophenone	ND	100	31	ug/L	20	12/14/15	D/P	SW8270D
Aniline	ND	500	300	ug/L	20	12/14/15	D/P	SW8270D
Anthracene	ND	40	33	ug/L	20	12/14/15	D/P	SW8270D
Benz(a)anthracene	ND	100	34	ug/L	20	12/14/15	D/P	SW8270D
Benzidine	ND	100	59	ug/L	20	12/14/15	D/P	SW8270D
Benzo(a)pyrene	ND	100	33	ug/L	20	12/14/15	D/P	SW8270D
Benzo(b)fluoranthene	ND	100	34	ug/L	20	12/14/15	D/P	SW8270D
Benzo(ghi)perylene	ND	100	32	ug/L	20	12/14/15	D/P	SW8270D
Benzo(k)fluoranthene	ND	100	33	ug/L	20	12/14/15	D/P	SW8270D
Benzoic acid	ND	500	200	ug/L	20	12/14/15	D/P	SW8270D
Benzyl butyl phthalate	ND	40	26	ug/L	20	12/14/15	D/P	SW8270D
Bis(2-chloroethoxy)methane	ND	100	28	ug/L	20	12/14/15	D/P	SW8270D
Bis(2-chloroethyl)ether	ND	100	27	ug/L	20	12/14/15	D/P	SW8270D
Bis(2-chloroisopropyl)ether	ND	100	28	ug/L	20	12/14/15	D/P	SW8270D
Bis(2-ethylhexyl)phthalate	ND	100	29	ug/L	20	12/14/15	D/P	SW8270D
Carbazole	ND	500	76	ug/L	20	12/14/15	D/P	SW8270D
Chrysene	ND	100	34	ug/L	20	12/14/15	D/P	SW8270D
Dibenz(a,h)anthracene	ND	40	32	ug/L	20	12/14/15	D/P	SW8270D
Dibenzofuran	ND	100	29	ug/L	20	12/14/15	D/P	SW8270D
Diethyl phthalate	ND	40	32	ug/L	20	12/14/15	D/P	SW8270D

Client ID: MW 6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	40	31	ug/L	20	12/14/15	D/P	SW8270D
Di-n-butylphthalate	ND	40	27	ug/L	20	12/14/15	D/P	SW8270D
Di-n-octylphthalate	ND	40	26	ug/L	20	12/14/15	D/P	SW8270D
Fluoranthene	ND	40	32	ug/L	20	12/14/15	D/P	SW8270D
Fluorene	ND	20	20	ug/L	20	12/14/15	D/P	SW8270D
Hexachlorobenzene	ND	100	29	ug/L	20	12/14/15	D/P	SW8270D
Hexachlorobutadiene	ND	100	36	ug/L	20	12/14/15	D/P	SW8270D
Hexachlorocyclopentadiene	ND	100	31	ug/L	20	12/14/15	D/P	SW8270D
Hexachloroethane	ND	100	30	ug/L	20	12/14/15	D/P	SW8270D
Indeno(1,2,3-cd)pyrene	ND	100	33	ug/L	20	12/14/15	D/P	SW8270D
Isophorone	ND	40	28	ug/L	20	12/14/15	D/P	SW8270D
Naphthalene	720	100	29	ug/L	20	12/14/15	D/P	SW8270D
Nitrobenzene	ND	100	35	ug/L	20	12/14/15	D/P	SW8270D
N-Nitrosodimethylamine	ND	100	28	ug/L	20	12/14/15	D/P	SW8270D
N-Nitrosodi-n-propylamine	ND	100	32	ug/L	20	12/14/15	D/P	SW8270D
N-Nitrosodiphenylamine	ND	40	38	ug/L	20	12/14/15	D/P	SW8270D
Pentachloronitrobenzene	ND	100	37	ug/L	20	12/14/15	D/P	SW8270D
Pentachlorophenol	ND	100	38	ug/L	20	12/14/15	D/P	SW8270D
Phenanthrene	ND	40	29	ug/L	20	12/14/15	D/P	SW8270D
Phenol	ND	100	32	ug/L	20	12/14/15	D/P	SW8270D
Pyrene	ND	40	34	ug/L	20	12/14/15	D/P	SW8270D
Pyridine	ND	50	25	ug/L	20	12/14/15	D/P	SW8270D
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	Diluted Out			%	20	12/14/15	D/P	15 - 110 %
% 2-Fluorobiphenyl	Diluted Out			%	20	12/14/15	D/P	30 - 130 %
% 2-Fluorophenol	Diluted Out			%	20	12/14/15	D/P	15 - 110 %
% Nitrobenzene-d5	Diluted Out			%	20	12/14/15	D/P	30 - 130 %
% Phenol-d5	Diluted Out			%	20	12/14/15	D/P	15 - 110 %
% Terphenyl-d14	Diluted Out			%	20	12/14/15	D/P	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

**Volatile Comment:**

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds. Some compounds were evaluated below the lowest calibration standard in order to meet the requested reporting level when possible.

**Semi-Volatile Comment:**

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

**Pesticide Comment:**

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported. Sample was evaluated against an external standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date

12/08/15  
 12/09/15

Time

15:22

Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34764

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: GW DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.025	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Aluminum	5.9	* 1.0	0.24	mg/L	100	12/11/15	EK	SW6010C
Arsenic - LDL	< 0.020	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Barium	0.131	0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Beryllium	< 0.003	0.003	0.003	mg/L	5	12/12/15	EK	SW6010C
Calcium	160	0.050	0.015	mg/L	5	12/12/15	EK	SW6010C
Cadmium	< 0.005	0.005	0.0025	mg/L	5	12/12/15	EK	SW6010C
Cobalt	0.007	B 0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Chromium	0.014	0.005	0.005	mg/L	5	12/12/15	EK	SW6010C
Copper	0.011	B 0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Silver (Dissolved)	< 0.005	0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Aluminum (Dissolved)	0.033	0.011	0.005	mg/L	1	12/10/15	EK	SW6010C
Arsenic, (Dissolved)	< 0.003	0.003	0.004	mg/L	1	12/10/15	EK	SW6010C
Barium (Dissolved)	0.103	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Calcium (Dissolved)	179	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Cadmium (Dissolved)	< 0.004	0.004	0.0005	mg/L	1	12/10/15	EK	SW6010C
Cobalt, (Dissolved)	0.003	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	0.001	mg/L	1	12/10/15	EK	SW6010C
Copper, (Dissolved)	0.001	B 0.005	0.001	mg/L	1	12/10/15	EK	SW6010C
Iron, (Dissolved)	0.01	0.01	0.01	mg/L	1	12/10/15	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium (Dissolved)	50.7	0.1	0.01	mg/L	1	12/10/15	EK	SW6010C
Magnesium (Dissolved)	67.2	0.11	0.11	mg/L	10	12/10/15	EK	SW6010C
Manganese, (Dissolved)	4.52	0.053	0.011	mg/L	10	12/10/15	EK	SW6010C
Sodium (Dissolved)	326	1.1	0.11	mg/L	10	12/10/15	EK	SW6010C
Nickel, (Dissolved)	0.003	B 0.004	0.001	mg/L	1	12/10/15	EK	SW6010C
Lead (Dissolved)	< 0.002	0.002	0.001	mg/L	1	12/10/15	EK	SW6010C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony, (Dissolved)	< 0.003	0.003	0.003	mg/L	1	12/15/15	RS	SW7010
Selenium, (Dissolved)	< 0.004	0.004	0.002	mg/L	1	12/14/15	RS	SW7010
Thallium , (Dissolved)	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium, (Dissolved)	< 0.011	0.011	0.001	mg/L	1	12/10/15	EK	SW6010C
Zinc, (Dissolved)	0.008	B 0.053	0.005	mg/L	5	12/12/15	LK	SW6010C
Iron	11.1	0.05	0.05	mg/L	5	12/12/15	EK	SW6010C
Mercury	< 0.0002	0.0002	0.00015	mg/L	1	12/10/15	RS	SW7470A
Potassium	46.9	0.5	0.5	mg/L	5	12/12/15	EK	SW6010C
Magnesium	61.9	0.05	0.005	mg/L	5	12/12/15	EK	SW6010C
Manganese	4.20	0.025	0.005	mg/L	5	12/12/15	EK	SW6010C
Sodium	318	10	10	mg/L	100	12/11/15	EK	SW6010C
Nickel	< 0.020	0.020	0.005	mg/L	5	12/12/15	EK	SW6010C
Lead	0.034	* 0.010	0.005	mg/L	5	12/12/15	EK	SW6010C
Antimony	< 0.002	0.002	0.002	mg/L	1	12/15/15	RS	SW7010
Selenium	< 0.01	0.01	0.01	mg/L	5	12/12/15	EK	SW6010C
Thallium - LDL	< 0.0005	0.0005	0.0005	mg/L	1	12/14/15	RS	SW7010
Vanadium	0.009	B 0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Zinc	0.032	B 0.050	0.005	mg/L	5	12/12/15	EK	SW6010C
Filtration	Completed					12/09/15	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					12/10/15	W/W	SW7470A
Mercury Digestion	Completed					12/10/15	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					12/09/15	L	SW3510C
Extraction for Pest (2 Liter)	Completed					12/09/15	L	SW3510C
Semi-Volatile Extraction	Completed					12/09/15	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					12/09/15	AG	SW3005A
Total Metals Digestion	Completed					12/10/15	AG	SW3050B

**Pesticides**

4,4' -DDD	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
4,4' -DDE	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
4,4' -DDT	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
a-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
a-chlordane	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Alachlor	ND	0.075	0.075	ug/L	1	12/11/15	CE	SW8081B
Aldrin	ND	0.002	0.002	ug/L	1	12/11/15	CE	SW8081B
b-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
Chlordane	ND	0.050	0.050	ug/L	1	12/11/15	CE	SW8081B
d-BHC	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
Dieldrin	ND	0.004	0.004	ug/L	1	12/11/15	CE	SW8081B
Endosulfan I	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endosulfan II	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Endrin ketone	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	12/11/15	CE	SW8081B
g-chlordane	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Heptachlor	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	12/11/15	CE	SW8081B
Methoxychlor	ND	0.10	0.10	ug/L	1	12/11/15	CE	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	0.25	0.25	ug/L	1	12/11/15	CE	SW8081B
<b><u>QA/QC Surrogates</u></b>								
%DCBP (Surrogate Rec)	50			%	1	12/11/15	CE	SW8081B
%TCMX (Surrogate Rec)	64			%	1	12/11/15	CE	SW8081B
<b><u>Polychlorinated Biphenyls</u></b>								
PCB-1016	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	12/10/15	AW	E608/SW8082A
<b><u>QA/QC Surrogates</u></b>								
% DCBP	47			%	1	12/10/15	AW	30 - 150 %
% TCMX	58			%	1	12/10/15	AW	30 - 150 %
<b><u>Volatiles</u></b>								
1,1,1,2-Tetrachloroethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,1-Dichloroethane	ND	5.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,1-Dichloroethene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,1-Dichloropropene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2,3-Trichloropropane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/L	2	12/10/15	MH	SW8260C
1,2-Dibromoethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.50	ug/L	2	12/10/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,3-Dichloropropane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
2,2-Dichloropropane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
2-Chlorotoluene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
2-Hexanone	ND	5.0	5.0	ug/L	2	12/10/15	MH	SW8260C
2-Isopropyltoluene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
4-Chlorotoluene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	5.0	ug/L	2	12/10/15	MH	SW8260C
Acetone	ND	10	5.0	ug/L	2	12/10/15	MH	SW8260C
Acrolein	ND	5.0	5.0	ug/L	2	12/10/15	MH	SW8260C
Acrylonitrile	ND	5.0	5.0	ug/L	2	12/10/15	MH	SW8260C
Benzene	ND	0.70	0.50	ug/L	2	12/10/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Bromochloromethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Bromodichloromethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Bromoform	ND	10	0.50	ug/L	2	12/10/15	MH	SW8260C
Bromomethane	ND	5.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Carbon Disulfide	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Carbon tetrachloride	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Chlorobenzene	ND	5.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Chloroethane	ND	5.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Chloroform	ND	7.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Chloromethane	1.3	J 5.0	0.50	ug/L	2	12/10/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.50	ug/L	2	12/10/15	MH	SW8260C
Dibromochloromethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Dibromomethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Dichlorodifluoromethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Ethylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.40	ug/L	2	12/10/15	MH	SW8260C
Isopropylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
m&p-Xylene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Methyl ethyl ketone	ND	5.0	5.0	ug/L	2	12/10/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	1.1	J 2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Methylene chloride	ND	5.0	2.0	ug/L	2	12/10/15	MH	SW8260C
Naphthalene	ND	2.0	2.0	ug/L	2	12/10/15	MH	SW8260C
n-Butylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
n-Propylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
o-Xylene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
p-Isopropyltoluene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
sec-Butylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Styrene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
tert-Butylbenzene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Tetrachloroethene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	10	5.0	ug/L	2	12/10/15	MH	SW8260C
Toluene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/L	2	12/10/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.50	ug/L	2	12/10/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	5.0	ug/L	2	12/10/15	MH	SW8260C
Trichloroethene	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Trichlorofluoromethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Trichlorotrifluoroethane	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
Vinyl chloride	ND	2.0	0.50	ug/L	2	12/10/15	MH	SW8260C
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	98			%	2	12/10/15	MH	70 - 130 %
% Bromofluorobenzene	96			%	2	12/10/15	MH	70 - 130 %
% Dibromofluoromethane	102			%	2	12/10/15	MH	70 - 130 %
% Toluene-d8	104			%	2	12/10/15	MH	70 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	12/14/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	2.2	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	12/14/15	DD	SW8270D
3-Nitroaniline	ND	5.0	5.0	ug/L	1	12/14/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
4-Chloroaniline	ND	3.5	2.3	ug/L	1	12/14/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Acenaphthene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Acetophenone	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Aniline	ND	3.5	5.0	ug/L	1	12/14/15	DD	SW8270D
Anthracene	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Benzidine	ND	4.5	2.9	ug/L	1	12/14/15	DD	SW8270D
Benzoic acid	29	25	10	ug/L	1	12/14/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Carbazole	ND	25	3.8	ug/L	1	12/14/15	DD	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Diethyl phthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Dimethylphthalate	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	12/14/15	DD	SW8270D
Fluoranthene	2.2	J 5.0	1.6	ug/L	1	12/14/15	DD	SW8270D
Fluorene	ND	5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0	1.5	ug/L	1	12/14/15	DD	SW8270D
Isophorone	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
Naphthalene	ND	5.0	1.4	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	12/14/15	DD	SW8270D



Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	12/14/15	DD	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	12/14/15	DD	SW8270D
Pyrene	2.2	J 5.0	1.7	ug/L	1	12/14/15	DD	SW8270D
Pyridine	ND	10	1.2	ug/L	1	12/14/15	DD	SW8270D
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	108			%	1	12/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	68			%	1	12/14/15	DD	30 - 130 %
% 2-Fluorophenol	34			%	1	12/14/15	DD	15 - 110 %
% Nitrobenzene-d5	63			%	1	12/14/15	DD	30 - 130 %
% Phenol-d5	47			%	1	12/14/15	DD	15 - 110 %
% Terphenyl-d14	47			%	1	12/14/15	DD	30 - 130 %
<b><u>Semivolatiles</u></b>								
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benz(a)anthracene	1.2	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(a)pyrene	1.1	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.90	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.56	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.91	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	12/11/15	DD	SW8270D (SIM)
Chrysene	1.2	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.20	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.40	0.40	ug/L	1	12/11/15	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50	0.50	ug/L	1	12/11/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.57	0.02	0.02	ug/L	1	12/11/15	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	1	12/11/15	DD	SW8270D (SIM)
Phenanthrene	1.4	0.10	0.10	ug/L	1	12/11/15	DD	SW8270D (SIM)
<b><u>QA/QC Surrogates</u></b>								
% 2,4,6-Tribromophenol	112			%	1	12/11/15	DD	15 - 110 %
% 2-Fluorobiphenyl	62			%	1	12/11/15	DD	30 - 130 %
% 2-Fluorophenol	45			%	1	12/11/15	DD	15 - 110 %
% Nitrobenzene-d5	63			%	1	12/11/15	DD	30 - 130 %
% Phenol-d5	58			%	1	12/11/15	DD	15 - 110 %
% Terphenyl-d14	53			%	1	12/11/15	DD	30 - 130 %

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
 3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

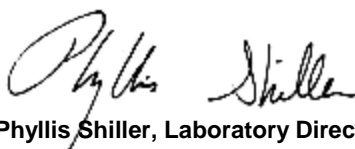
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:  
 Elevated reporting limits due to the foamy nature of the sample.

Semi-Volatile Comment:  
 One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
 This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 11, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date

12/08/15  
 12/09/15

Time

15:22

Laboratory Data

SDG ID: GBK34758  
 Phoenix ID: BK34765

Project ID: 101 LINCOLN AVE BRONX  
 Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
<b><u>Volatiles</u></b>									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	12/09/15	MH	SW8260C	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C	

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromobenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromoform	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Bromomethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chloroethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chloroform	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Chloromethane	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/09/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Dibromomethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/09/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	12/09/15	MH	SW8260C
Naphthalene	ND	1.0	1.0	ug/L	1	12/09/15	MH	SW8260C
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/09/15	MH	SW8260C
Toluene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/09/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/09/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/09/15	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/09/15	MH	SW8260C
<b>QA/QC Surrogates</b>								
% 1,2-dichlorobenzene-d4	96			%	1	12/09/15	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	12/09/15	MH	70 - 130 %
% Dibromofluoromethane	91			%	1	12/09/15	MH	70 - 130 %

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	103			%	1	12/09/15	MH	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

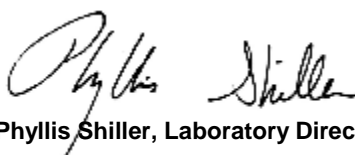
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 11, 2016**

**Reviewed and Released by: Phyllis Shiller, Laboratory Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

January 11, 2016

## QA/QC Data

SDG I.D.: GBK34758

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 328937 (mg/L), QC Sample No: BK34029 (BK34758, BK34762, BK34763)													
Antimony - Water	BRL	0.003	<0.002	<0.003	NC	111	110	0.9	103	107	3.8	75 - 125	20
Thallium - Water	BRL	0.001	<0.001	<0.001	NC	107	108	0.9	103	105	1.9	75 - 125	20
QA/QC Batch 329119 (mg/L), QC Sample No: BK34688 (BK34764)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	99.3	98.2	1.1	96.8	94.2	2.7	75 - 125	20
QA/QC Batch 329074 (mg/L), QC Sample No: BK34759 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)													
Antimony (Dissolved)-LDL	BRL	0.005	<0.003	<0.005	NC	117	114	2.6	107	104	2.8	75 - 125	20
Selenium (Dissolved)	BRL	0.002	<0.004	<0.002	NC	111	115	3.5	108	107	0.9	75 - 125	20
Thallium (Dissolved)	BRL	0.002	<0.001	<0.002	NC	93.7	101	7.5	106	90.3	16.0	75 - 125	20
QA/QC Batch 329213 (mg/L), QC Sample No: BK34759 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)													
Antimony - Water	BRL	0.003	<0.002	<0.003	NC	98.2	100	1.8	91.6	92.3	0.8	75 - 125	20
Thallium - Water	BRL	0.001	<0.001	0.001 B	NC	105	100	4.9	91.3	89.9	1.5	75 - 125	20
QA/QC Batch 329230 (mg/L), QC Sample No: BK34761 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)													
<u>ICP Metals - Aqueous</u>													
Aluminum	BRL	0.010	0.442	0.198	76.3	93.4	96.6	3.4	96.7	95.7	1.0	80 - 120	20
Arsenic	BRL	0.004	<0.020	<0.020	NC	96.2	100	3.9	98.4	98.0	0.4	80 - 120	20
Barium	BRL	0.002	0.025	0.025	NC	103	105	1.9	93.4	93.3	0.1	80 - 120	20
Beryllium	BRL	0.001	<0.005	<0.005	NC	103	105	1.9	104	103	1.0	80 - 120	20
Cadmium	BRL	0.001	<0.020	<0.005	NC	97.1	102	4.9	98.0	97.2	0.8	80 - 120	20
Calcium	BRL	0.010	216	217	0.50	96.6	98.9	2.4	NC	NC	NC	80 - 120	20
Chromium	BRL	0.001	<0.005	<0.005	NC	96.3	100	3.8	94.5	94.0	0.5	80 - 120	20
Cobalt	BRL	0.002	<0.025	<0.010	NC	100	104	3.9	96.2	95.9	0.3	80 - 120	20
Copper	BRL	0.005	<0.025	<0.025	NC	98.9	101	2.1	92.3	93.3	1.1	80 - 120	20
Iron	BRL	0.010	0.22	0.210	4.70	99.9	103	3.1	94.4	94.2	0.2	80 - 120	20
Lead	BRL	0.002	0.016	0.020	22.2	95.6	99.7	4.2	93.5	92.4	1.2	80 - 120	20
Magnesium	BRL	0.01	606	600	1.00	100	104	3.9	NC	NC	NC	80 - 120	20
Manganese	BRL	0.001	0.149	0.149	0	98.0	102	4.0	93.9	93.6	0.3	80 - 120	20
Nickel	BRL	0.001	<0.020	<0.005	NC	96.4	101	4.7	91.7	91.7	0.0	80 - 120	20
Potassium	BRL	0.1	191	192	0.50	104	105	1.0	97.6	105	7.3	80 - 120	20
Selenium	BRL	0.010	<0.050	<0.050	NC	96.1	101	5.0	95.8	95.4	0.4	80 - 120	20
Silver	BRL	0.001	<0.025	<0.005	NC	96.7	99.0	2.4	98.0	97.6	0.4	70 - 130	30
Sodium	BRL	0.1	5470	5500	0.50	104	105	1.0	NC	NC	NC	80 - 120	20
Vanadium	BRL	0.002	<0.050	<0.010	NC	97.5	98.7	1.2	95.9	95.4	0.5	80 - 120	20
Zinc	BRL	0.002	0.019	0.016	NC	96.7	101	4.4	97.3	97.2	0.1	80 - 120	20
QA/QC Batch 329073 (mg/L), QC Sample No: BK34761 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)													
<u>ICP Metals - Dissolved</u>													
Aluminum	BRL	0.011	0.015	0.013	NC	93.3	90.1	3.5	97.3	99.8	2.5	80 - 120	20
Arsenic	BRL	0.004	<0.003	<0.004	NC	98.3	94.9	3.5	96.0	98.4	2.5	80 - 120	20
Barium	BRL	0.002	0.026	0.026	NC	99.8	96.1	3.8	88.9	90.2	1.5	80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	103	98.6	4.4	93.8	95.0	1.3	80 - 120	20
Cadmium	BRL	0.001	<0.004	<0.001	NC	98.2	94.7	3.6	90.0	91.3	1.4	80 - 120	20
Calcium	BRL	0.01	220	213	3.20	98.3	94.8	3.6	NC	NC	NC	80 - 120	20

## QA/QC Data

SDG I.D.: GBK34758

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chromium	BRL	0.001	<0.001	<0.001	NC	99.1	95.2	4.0	88.8	90.3	1.7	80 - 120	20
Cobalt	BRL	0.001	<0.005	<0.001	NC	99.0	95.4	3.7	92.4	94.0	1.7	80 - 120	20
Copper	BRL	0.005	0.004	0.003	NC	98.9	95.3	3.7	96.2	97.5	1.3	80 - 120	20
Iron	BRL	0.011	<0.01	<0.011	NC	98.8	95.3	3.6	89.1	90.2	1.2	80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	98.4	94.8	3.7	93.9	95.3	1.5	80 - 120	20
Magnesium	BRL	0.01	639	621	2.90	99.2	95.6	3.7	NC	NC	NC	80 - 120	20
Manganese	BRL	0.001	0.147	0.148	0.70	102	98.4	3.6	93.0	94.5	1.6	80 - 120	20
Nickel	BRL	0.001	0.004	0.005	NC	99.0	95.7	3.4	92.5	94.1	1.7	80 - 120	20
Potassium	BRL	0.1	267	258	3.40	95.8	93.6	2.3	NC	NC	NC	80 - 120	20
Silver	BRL	0.001	<0.005	<0.001	NC	101	97.6	3.4	98.1	101	2.9	70 - 130	30
Sodium	BRL	0.11	6380	6140	3.80	97.2	95.3	2.0	NC	NC	NC	80 - 120	20
Vanadium	BRL	0.002	0.002	<0.002	NC	97.2	93.9	3.5	92.1	93.4	1.4	80 - 120	20
Zinc	BRL	0.002	0.017	0.015	NC	98.3	95.1	3.3	94.9	95.4	0.5	80 - 120	20

QA/QC Batch 329122 (mg/L), QC Sample No: BK34922 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)

Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0003	NC	101	95.3	5.8	102	107	4.8	75 - 125	20
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QA/QC Batch 329259 (mg/L), QC Sample No: BK35299 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	105	99.2	5.7	97.9	98.1	0.2	75 - 125	20
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r = This parameter is outside laboratory RPD specified recovery limits.



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# QA/QC Report

January 11, 2016

## QA/QC Data

SDG I.D.: GBK34758

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 329104 (ug/L), QC Sample No: BK34758 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)										
<u>Polychlorinated Biphenyls - Ground Water</u>										
PCB-1016	ND	0.050	79	80	1.3				30 - 120	20
PCB-1221	ND	0.050							30 - 150	20
PCB-1232	ND	0.050							30 - 150	20
PCB-1242	ND	0.050							30 - 150	20
PCB-1248	ND	0.050							30 - 150	20
PCB-1254	ND	0.050							30 - 150	20
PCB-1260	ND	0.050	93	96	3.2				30 - 150	20
PCB-1262	ND	0.050							30 - 150	20
PCB-1268	ND	0.050							30 - 150	20
% DCBP (Surrogate Rec)	84	%	107	107	0.0				30 - 150	20
% TCMX (Surrogate Rec)	64	%	77	62	21.6				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 329083 (ug/L), QC Sample No: BK34758 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)

## Semivolatiles (SIM) - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	0.50	91	73	22.0				30 - 130	20	r
Acenaphthylene	ND	0.02	106	86	20.8				30 - 130	20	r
Benz(a)anthracene	ND	0.02	114	95	18.2				30 - 130	20	
Benzo(a)pyrene	ND	0.02	112	92	19.6				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	110	93	16.7				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	108	87	21.5				30 - 130	20	r
Benzo(k)fluoranthene	ND	0.02	120	99	19.2				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	0.1	112	92	19.6				30 - 130	20	
Chrysene	ND	0.02	115	96	18.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	114	92	21.4				30 - 130	20	r
Hexachlorobenzene	ND	0.02	109	92	16.9				30 - 130	20	
Hexachlorobutadiene	ND	0.05	74	55	29.5				30 - 130	20	r
Hexachloroethane	ND	0.05	62	46	29.6				30 - 130	20	r
Indeno(1,2,3-cd)pyrene	ND	0.02	108	87	21.5				30 - 130	20	r
Nitrobenzene	ND	0.05	87	66	27.5				30 - 130	20	r
Pentachloronitrobenzene	ND	0.10	115	96	18.0				30 - 130	20	
Pentachlorophenol	ND	0.20	161	136	16.8				30 - 130	20	i
Phenanthrene	ND	0.02	112	94	17.5				30 - 130	20	
% 2,4,6-Tribromophenol	99	%	128	109	16.0				15 - 110	20	i
% 2-Fluorobiphenyl	67	%	92	75	20.4				30 - 130	20	
% 2-Fluorophenol	39	%	55	40	31.6				15 - 110	20	r
% Nitrobenzene-d5	54	%	83	65	24.3				30 - 130	20	r
% Phenol-d5	52	%	70	54	25.8				15 - 110	20	r
% Terphenyl-d14	95	%	116	97	17.8				30 - 130	20	



## QA/QC Data

SDG I.D.: GBK34758

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 329083 (ug/L), QC Sample No: BK34758 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)											
<b>Semivolatiles - Ground Water</b>											
1,2,4,5-Tetrachlorobenzene	ND	3.5	84	84	0.0				30 - 130	20	
1,2,4-Trichlorobenzene	ND	3.5	71	68	4.3				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	47	39	18.6				30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	88	85	3.5				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	42	35	18.2				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	43	36	17.7				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	95	97	2.1				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	83	85	2.4				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	90	90	0.0				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	84	83	1.2				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	93	94	1.1				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	92	91	1.1				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	86	88	2.3				30 - 130	20	
2-Chloronaphthalene	ND	3.5	84	82	2.4				30 - 130	20	
2-Chlorophenol	ND	1.0	61	53	14.0				30 - 130	20	
2-Methylnaphthalene	ND	3.5	89	80	10.7				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	79	68	15.0				30 - 130	20	
2-Nitroaniline	ND	3.5	82	79	3.7				30 - 130	20	
2-Nitrophenol	ND	1.0	67	60	11.0				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	84	72	15.4				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	41	35	15.8				30 - 130	20	
3-Nitroaniline	ND	5.0	73	85	15.2				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	91	90	1.1				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	91	93	2.2				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	102	99	3.0				30 - 130	20	
4-Chloroaniline	ND	3.5	52	59	12.6				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	83	86	3.6				30 - 130	20	
4-Nitroaniline	ND	5.0	84	80	4.9				30 - 130	20	
4-Nitrophenol	ND	1.0	90	88	2.2				30 - 130	20	
Acenaphthene	ND	1.5	84	84	0.0				30 - 130	20	
Acenaphthylene	ND	3.5	83	80	3.7				30 - 130	20	
Acetophenone	ND	3.5	65	55	16.7				30 - 130	20	
Aniline	ND	3.5	46	33	32.9				30 - 130	20 r	
Anthracene	ND	1.5	90	87	3.4				30 - 130	20	
Benz(a)anthracene	ND	1.5	90	91	1.1				30 - 130	20	
Benzidine	ND	4.5	33	<10	NC				30 - 130	20 l	
Benzo(a)pyrene	ND	1.5	90	88	2.2				30 - 130	20	
Benzo(b)fluoranthene	ND	1.5	103	97	6.0				30 - 130	20	
Benzo(ghi)perylene	ND	1.5	87	88	1.1				30 - 130	20	
Benzo(k)fluoranthene	ND	1.5	87	92	5.6				30 - 130	20	
Benzoic acid	ND	10	74	91	20.6				30 - 130	20 r	
Benzyl butyl phthalate	ND	1.5	91	89	2.2				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	86	76	12.3				30 - 130	20	
Bis(2-chloroethyl)ether	ND	1.0	53	45	16.3				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	1.0	49	39	22.7				30 - 130	20 r	
Bis(2-ethylhexyl)phthalate	ND	1.5	99	94	5.2				30 - 130	20	
Carbazole	ND	5.0	93	90	3.3				30 - 130	20	
Chrysene	ND	1.5	100	98	2.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	1.5	87	89	2.3				30 - 130	20	
Dibenzofuran	ND	3.5	82	82	0.0				30 - 130	20	

QA/QC Data

SDG I.D.: GBK34758

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Diethyl phthalate	ND	1.5	99	100	1.0				30 - 130	20	
Dimethylphthalate	ND	1.5	89	90	1.1				30 - 130	20	
Di-n-butylphthalate	ND	1.5	96	89	7.6				30 - 130	20	
Di-n-octylphthalate	ND	1.5	102	98	4.0				30 - 130	20	
Fluoranthene	ND	1.5	95	91	4.3				30 - 130	20	
Fluorene	ND	1.5	89	90	1.1				30 - 130	20	
Hexachlorobenzene	ND	3.5	89	86	3.4				30 - 130	20	
Hexachlorobutadiene	ND	3.5	65	61	6.3				30 - 130	20	
Hexachlorocyclopentadiene	ND	3.5	50	45	10.5				30 - 130	20	
Hexachloroethane	ND	3.5	47	39	18.6				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	3.5	89	91	2.2				30 - 130	20	
Isophorone	ND	3.5	86	80	7.2				30 - 130	20	
Naphthalene	ND	1.5	78	70	10.8				30 - 130	20	
Nitrobenzene	ND	3.5	64	55	15.1				30 - 130	20	
N-Nitrosodimethylamine	ND	1.0	35	25	33.3				30 - 130	20	l,r
N-Nitrosodi-n-propylamine	ND	3.5	81	68	17.4				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	86	85	1.2				30 - 130	20	
Pentachloronitrobenzene	ND	5.0	88	85	3.5				30 - 130	20	
Pentachlorophenol	ND	3.5	89	87	2.3				30 - 130	20	
Phenanthrene	ND	1.5	92	92	0.0				30 - 130	20	
Phenol	ND	1.0	69	57	19.0				30 - 130	20	
Pyrene	ND	1.5	96	92	4.3				30 - 130	20	
Pyridine	ND	5.0	23	15	42.1				30 - 130	20	l,r
% 2,4,6-Tribromophenol	82	%	83	77	7.5				15 - 110	20	
% 2-Fluorobiphenyl	72	%	73	72	1.4				30 - 130	20	
% 2-Fluorophenol	29	%	42	36	15.4				15 - 110	20	
% Nitrobenzene-d5	50	%	62	52	17.5				30 - 130	20	
% Phenol-d5	43	%	59	49	18.5				15 - 110	20	
% Terphenyl-d14	84	%	87	85	2.3				30 - 130	20	

QA/QC Batch 329105 (ug/L), QC Sample No: BK34759 (BK34758, BK34759, BK34760, BK34761, BK34762, BK34763, BK34764)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	88	90	2.2				30 - 150	20	
4,4' -DDE	ND	0.003	87	84	3.5				40 - 140	30	
4,4' -DDT	ND	0.003	92	91	1.1				30 - 150	20	
a-BHC	ND	0.002	78	77	1.3				30 - 150	20	
a-Chlordane	ND	0.005	90	89	1.1				30 - 150	20	
Alachlor	ND	0.005	NA	NA	NC				30 - 150	20	
Aldrin	ND	0.002	63	64	1.6				40 - 140	30	
b-BHC	ND	0.002	86	89	3.4				30 - 150	20	
Chlordane	ND	0.050	84	84	0.0				30 - 150	20	
d-BHC	ND	0.005	71	71	0.0				30 - 150	20	
Dieldrin	ND	0.002	93	93	0.0				40 - 140	30	
Endosulfan I	ND	0.005	98	93	5.2				30 - 150	20	
Endosulfan II	ND	0.005	88	87	1.1				30 - 150	20	
Endosulfan sulfate	ND	0.005	72	71	1.4				40 - 140	30	
Endrin	ND	0.005	91	90	1.1				40 - 140	30	
Endrin aldehyde	ND	0.005	85	88	3.5				30 - 150	20	
Endrin ketone	ND	0.005	85	85	0.0				30 - 150	20	
g-BHC	ND	0.002	83	86	3.6				40 - 140	30	
g-Chlordane	ND	0.005	84	84	0.0				40 - 140	30	
Heptachlor	ND	0.005	74	76	2.7				40 - 140	30	
Heptachlor epoxide	ND	0.005	90	91	1.1				30 - 150	20	

## QA/QC Data

SDG I.D.: GBK34758

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Methoxychlor	ND	0.005	85	84	1.2				30 - 150	20
Toxaphene	ND	0.20	NA	NA	NC				30 - 150	20
% DCBP	63	%	70	67	4.4				30 - 150	30
% TCMX	72	%	70	67	4.4				30 - 150	30

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 329148 (ug/L), QC Sample No: BK34765 (BK34759, BK34761 (2X) , BK34764 (2X) , BK34765)

### Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	94	109	14.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	86	92	6.7				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	97	115	17.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	89	108	19.3				70 - 130	30
1,1-Dichloroethane	ND	1.0	89	100	11.6				70 - 130	30
1,1-Dichloroethene	ND	1.0	85	91	6.8				70 - 130	30
1,1-Dichloropropene	ND	1.0	86	95	9.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	87	120	31.9				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	89	103	14.6				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	95	122	24.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	89	99	10.6				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	90	110	20.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	97	114	16.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	90	105	15.4				70 - 130	30
1,2-Dichloroethane	ND	1.0	93	109	15.8				70 - 130	30
1,2-Dichloropropane	ND	1.0	90	107	17.3				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	90	101	11.5				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	91	105	14.3				70 - 130	30
1,3-Dichloropropane	ND	1.0	94	111	16.6				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	89	103	14.6				70 - 130	30
2,2-Dichloropropane	ND	1.0	86	92	6.7				70 - 130	30
2-Chlorotoluene	ND	1.0	92	100	8.3				70 - 130	30
2-Hexanone	ND	5.0	93	112	18.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	91	102	11.4				70 - 130	30
4-Chlorotoluene	ND	1.0	91	103	12.4				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	84	106	23.2				70 - 130	30
Acetone	ND	5.0	80	100	22.2				70 - 130	30
Acrolein	ND	5.0	95	116	19.9				70 - 130	30
Acrylonitrile	ND	5.0	92	111	18.7				70 - 130	30
Benzene	ND	0.70	88	101	13.8				70 - 130	30
Bromobenzene	ND	1.0	93	105	12.1				70 - 130	30
Bromochloromethane	ND	1.0	91	107	16.2				70 - 130	30
Bromodichloromethane	ND	0.50	92	107	15.1				70 - 130	30
Bromoform	ND	1.0	95	113	17.3				70 - 130	30
Bromomethane	ND	1.0	86	108	22.7				70 - 130	30
Carbon Disulfide	ND	1.0	89	98	9.6				70 - 130	30
Carbon tetrachloride	ND	1.0	83	91	9.2				70 - 130	30
Chlorobenzene	ND	1.0	89	102	13.6				70 - 130	30
Chloroethane	ND	1.0	85	96	12.2				70 - 130	30
Chloroform	ND	1.0	87	99	12.9				70 - 130	30
Chloromethane	ND	1.0	92	98	6.3				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	91	102	11.4				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	90	109	19.1				70 - 130	30

QA/QC Data

SDG I.D.: GBK34758

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Dibromochloromethane	ND	0.50	99	115	15.0				70 - 130	30
Dibromomethane	ND	1.0	90	104	14.4				70 - 130	30
Dichlorodifluoromethane	ND	1.0	80	87	8.4				70 - 130	30
Ethylbenzene	ND	1.0	92	103	11.3				70 - 130	30
Hexachlorobutadiene	ND	0.40	84	103	20.3				70 - 130	30
Isopropylbenzene	ND	1.0	92	99	7.3				70 - 130	30
m&p-Xylene	ND	1.0	90	99	9.5				70 - 130	30
Methyl ethyl ketone	ND	5.0	85	97	13.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	117	17.7				70 - 130	30
Methylene chloride	ND	1.0	87	100	13.9				70 - 130	30
Naphthalene	ND	1.0	96	131	30.8				70 - 130	30
n-Butylbenzene	ND	1.0	86	97	12.0				70 - 130	30
n-Propylbenzene	ND	1.0	84	90	6.9				70 - 130	30
o-Xylene	ND	1.0	95	106	10.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	89	100	11.6				70 - 130	30
sec-Butylbenzene	ND	1.0	92	101	9.3				70 - 130	30
Styrene	ND	1.0	95	109	13.7				70 - 130	30
tert-Butylbenzene	ND	1.0	89	99	10.6				70 - 130	30
Tetrachloroethene	ND	1.0	81	91	11.6				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	88	107	19.5				70 - 130	30
Toluene	ND	1.0	88	99	11.8				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	91	103	12.4				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	92	110	17.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	122	16.9				70 - 130	30
Trichloroethene	ND	1.0	86	95	9.9				70 - 130	30
Trichlorofluoromethane	ND	1.0	78	87	10.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	83	90	8.1				70 - 130	30
Vinyl chloride	ND	1.0	85	93	9.0				70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	97	100	3.0				70 - 130	30
% Bromofluorobenzene	95	%	102	101	1.0				70 - 130	30
% Dibromofluoromethane	92	%	101	99	2.0				70 - 130	30
% Toluene-d8	100	%	98	100	2.0				70 - 130	30

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Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 329469 (ug/L), QC Sample No: BK35691 (BK34758, BK34760, BK34762, BK34763 (20X, 100X) )

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	117	110	6.2				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	107	97	9.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	119	113	5.2				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	115	108	6.3				70 - 130	30
1,1-Dichloroethane	ND	1.0	111	100	10.4				70 - 130	30
1,1-Dichloroethene	ND	1.0	108	100	7.7				70 - 130	30
1,1-Dichloropropene	ND	1.0	108	98	9.7				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	115	110	4.4				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	115	108	6.3				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	116	112	3.5				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	108	97	10.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	115	121	5.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	118	111	6.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	112	104	7.4				70 - 130	30
1,2-Dichloroethane	ND	1.0	113	107	5.5				70 - 130	30
1,2-Dichloropropane	ND	1.0	115	106	8.1				70 - 130	30

## QA/QC Data

SDG I.D.: GBK34758

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
1,3,5-Trimethylbenzene	ND	1.0	111	99	11.4				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	113	103	9.3				70 - 130	30
1,3-Dichloropropane	ND	1.0	114	108	5.4				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	111	102	8.5				70 - 130	30
2,2-Dichloropropane	ND	1.0	110	98	11.5				70 - 130	30
2-Chlorotoluene	ND	1.0	110	99	10.5				70 - 130	30
2-Hexanone	ND	5.0	109	104	4.7				70 - 130	30
2-Isopropyltoluene	ND	1.0	114	103	10.1				70 - 130	30
4-Chlorotoluene	ND	1.0	109	98	10.6				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	111	110	0.9				70 - 130	30
Acetone	ND	5.0	102	96	6.1				70 - 130	30
Acrolein	ND	5.0	110	106	3.7				70 - 130	30
Acrylonitrile	ND	5.0	123	115	6.7				70 - 130	30
Benzene	ND	0.70	112	102	9.3				70 - 130	30
Bromobenzene	ND	1.0	111	102	8.5				70 - 130	30
Bromochloromethane	ND	1.0	114	107	6.3				70 - 130	30
Bromodichloromethane	ND	0.50	116	111	4.4				70 - 130	30
Bromoform	ND	1.0	121	118	2.5				70 - 130	30
Bromomethane	ND	1.0	98	93	5.2				70 - 130	30
Carbon Disulfide	ND	1.0	109	99	9.6				70 - 130	30
Carbon tetrachloride	ND	1.0	105	97	7.9				70 - 130	30
Chlorobenzene	ND	1.0	114	104	9.2				70 - 130	30
Chloroethane	ND	1.0	102	94	8.2				70 - 130	30
Chloroform	ND	1.0	112	99	12.3				70 - 130	30
Chloromethane	ND	1.0	105	89	16.5				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	110	103	6.6				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	115	109	5.4				70 - 130	30
Dibromochloromethane	ND	0.50	119	113	5.2				70 - 130	30
Dibromomethane	ND	1.0	113	108	4.5				70 - 130	30
Dichlorodifluoromethane	ND	1.0	95	86	9.9				70 - 130	30
Ethylbenzene	ND	1.0	113	102	10.2				70 - 130	30
Hexachlorobutadiene	ND	0.40	117	108	8.0				70 - 130	30
Isopropylbenzene	ND	1.0	107	97	9.8				70 - 130	30
m&p-Xylene	ND	1.0	111	100	10.4				70 - 130	30
Methyl ethyl ketone	ND	5.0	114	104	9.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	120	115	4.3				70 - 130	30
Methylene chloride	ND	1.0	131	121	7.9				70 - 130	30
Naphthalene	ND	1.0	121	121	0.0				70 - 130	30
n-Butylbenzene	ND	1.0	109	99	9.6				70 - 130	30
n-Propylbenzene	ND	1.0	103	92	11.3				70 - 130	30
o-Xylene	ND	1.0	117	106	9.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	111	100	10.4				70 - 130	30
sec-Butylbenzene	ND	1.0	112	101	10.3				70 - 130	30
Styrene	ND	1.0	119	109	8.8				70 - 130	30
tert-Butylbenzene	ND	1.0	109	98	10.6				70 - 130	30
Tetrachloroethene	ND	1.0	104	94	10.1				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	116	105	10.0				70 - 130	30
Toluene	ND	1.0	110	100	9.5				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	114	102	11.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	117	112	4.4				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	114	108	5.4				70 - 130	30
Trichloroethene	ND	1.0	108	101	6.7				70 - 130	30
Trichlorofluoromethane	ND	1.0	101	95	6.1				70 - 130	30

## QA/QC Data

SDG I.D.: GBK34758

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Trichlorotrifluoroethane	ND	1.0	101	95	6.1				70 - 130	30
Vinyl chloride	ND	1.0	105	93	12.1				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	99	101	2.0				70 - 130	30
% Bromofluorobenzene	93	%	101	103	2.0				70 - 130	30
% Dibromofluoromethane	101	%	98	99	1.0				70 - 130	30
% Toluene-d8	100	%	99	102	3.0				70 - 130	30

Comment:

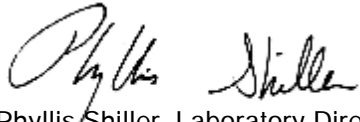
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
January 11, 2016

## Sample Criteria Exceedences Report

Criteria: NY: GW

GBK34758 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	RL	Analysis Units
BK34758	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BK34758	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	0.0006	ug/L
BK34758	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BK34758	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.41	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.26	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.53	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.38	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.51	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.51	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.38	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.51	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.53	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.26	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.41	0.02	0.002	0.002	0.002	ug/L
BK34758	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.06	0.06	0.06	ug/L
BK34758	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	54.9	0.050	0.1	0.1	0.1	mg/L
BK34758	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.098	0.005	0.05	0.05	0.05	mg/L
BK34758	CU-WMDP	Copper	NY / TOGS - Water Quality / GA Criteria	0.213	0.025	0.2	0.2	0.2	mg/L
BK34758	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	105	0.11	35	35	35	mg/L
BK34758	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.566	0.005	0.3	0.3	0.3	mg/L
BK34758	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	972	11	20	20	20	mg/L
BK34758	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	86.4	0.05	0.3	0.3	0.3	mg/L
BK34758	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	137	0.05	35	35	35	mg/L
BK34758	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	2.02	0.025	0.3	0.3	0.3	mg/L
BK34758	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	982	10	20	20	20	mg/L
BK34758	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	1.34	0.010	0.025	0.025	0.025	mg/L
BK34759	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BK34759	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BK34759	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	0.0006	ug/L
BK34759	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.63	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.66	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.30	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.58	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.46	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.48	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.63	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.66	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.46	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.48	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.30	0.02	0.002	0.002	0.002	ug/L
BK34759	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.06	0.06	0.06	ug/L

## Sample Criteria Exceedences Report

Criteria: NY: GW

GBK34758 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	RL	Analysis Units
BK34759	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	7.12	0.050	0.1	0.1		mg/L
BK34759	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	61.0	0.11	35	35		mg/L
BK34759	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	4.11	0.053	0.3	0.3		mg/L
BK34759	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	295	1.1	20	20		mg/L
BK34759	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	11.0	0.05	0.3	0.3		mg/L
BK34759	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	61.7	0.05	35	35		mg/L
BK34759	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	4.21	0.025	0.3	0.3		mg/L
BK34759	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	343	10	20	20		mg/L
BK34759	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.041	0.010	0.025	0.025		mg/L
BK34759	TL-WMDP	Thallium - LDL	NY / TOGS - Water Quality / GA Criteria	0.0006	0.0005	0.0005	0.0005		mg/L
BK34760	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04		ug/L
BK34760	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04		ug/L
BK34760	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006		ug/L
BK34760	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.04	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.06	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.06	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.06	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.08	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.04	0.02	0.002	0.002		ug/L
BK34760	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.06	0.02	0.002	0.002		ug/L
BK34760	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06		ug/L
BK34760	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	20.9	0.050	0.1	0.1		mg/L
BK34760	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	445	0.11	35	35		mg/L
BK34760	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	4270	11	20	20		mg/L
BK34760	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	24.6	0.05	0.3	0.3		mg/L
BK34760	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	434	1.0	35	35		mg/L
BK34760	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	0.620	0.025	0.3	0.3		mg/L
BK34760	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	4720	10	20	20		mg/L
BK34760	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.398	0.010	0.025	0.025		mg/L
BK34760	SB-WMDP	Antimony	NY / TOGS - Water Quality / GA Criteria	0.004	0.002	0.003	0.003		mg/L
BK34761	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006		ug/L
BK34761	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04		ug/L
BK34761	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04		ug/L
BK34761	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002		ug/L
BK34761	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002		ug/L
BK34761	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002		ug/L



## Sample Criteria Exceedences Report

Criteria: NY: GW

GBK34758 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK34761	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	0.002	ug/L
BK34761	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.06	0.06	0.06	ug/L
BK34761	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.442	0.050	0.1	0.1	0.1	mg/L
BK34761	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	639	0.11	35	35	35	mg/L
BK34761	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	4860	11	20	20	20	mg/L
BK34761	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	606	1.0	35	35	35	mg/L
BK34761	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	5470	10	20	20	20	mg/L
BK34761	SB-WMDP	Antimony	NY / TOGS - Water Quality / GA Criteria	0.008	0.002	0.003	0.003	0.003	mg/L
BK34762	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BK34762	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	0.0006	ug/L
BK34762	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	0.04	ug/L
BK34762	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.15	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.12	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.16	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.16	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.12	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.08	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.12	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.12	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.16	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.15	0.02	0.002	0.002	0.002	ug/L
BK34762	\$DPPEST_GA	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	0.01	ug/L
BK34762	\$DPPEST_GA	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	0.01	ug/L
BK34762	\$DPPEST_GA	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1	0.1	ug/L
BK34762	\$DPPEST_GA	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	0.01	ug/L
BK34762	\$DPPEST_GA	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	0.01	ug/L
BK34762	\$DPPEST_GA	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	0.01	ug/L
BK34762	\$DPPEST_GA	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	0.01	ug/L
BK34762	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	1.3	0.06	0.06	0.06	ug/L
BK34762	\$DPPEST_GA	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.008	0.004	0.004	0.004	ug/L
BK34762	\$DPPEST_GA	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.012	0.01	0.01	0.01	ug/L
BK34762	\$DPPEST_GA	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.05	0.05	0.05	ug/L
BK34762	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	74.4	0.050	0.1	0.1	0.1	mg/L

## Sample Criteria Exceedences Report

Criteria: NY: GW

GBK34758 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Analysis Units
BK34762	AS-WMDP	Arsenic - LDL	NY / TOGS - Water Quality / GA Criteria	0.062	0.020	0.025	0.025	mg/L
BK34762	CD-WMDP	Cadmium	NY / TOGS - Water Quality / GA Criteria	0.011	0.020	0.005	0.005	mg/L
BK34762	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.150	0.005	0.05	0.05	mg/L
BK34762	CU-WMDP	Copper	NY / TOGS - Water Quality / GA Criteria	0.409	0.025	0.2	0.2	mg/L
BK34762	DFE-WMDP	Iron, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	82.9	0.01	0.3	0.3	mg/L
BK34762	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	471	0.11	35	35	mg/L
BK34762	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.30	0.005	0.3	0.3	mg/L
BK34762	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	3480	11	20	20	mg/L
BK34762	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	344	0.05	0.3	0.3	mg/L
BK34762	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	459	1.0	35	35	mg/L
BK34762	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	2.89	0.025	0.3	0.3	mg/L
BK34762	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	4040	10	20	20	mg/L
BK34762	NI-WMDP	Nickel	NY / TOGS - Water Quality / GA Criteria	0.174	0.020	0.1	0.1	mg/L
BK34762	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	1.90	0.010	0.025	0.025	mg/L
BK34762	SB-WMDP	Antimony	NY / TOGS - Water Quality / GA Criteria	0.005	0.002	0.003	0.003	mg/L
BK34763	\$8260DP25R	Acrolein	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BK34763	\$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	20	2	2	ug/L
BK34763	\$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	ND	20	2	2	ug/L
BK34763	\$8260DP25R	Methylene chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	20	5	5	ug/L
BK34763	\$8260DP25R	Methylene chloride	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BK34763	\$8260DP25R	Acrylonitrile	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BK34763	\$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	9.2	14	0.7	0.7	ug/L
BK34763	\$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	9.2	14	1	1	ug/L
BK34763	\$8260DP25R	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5	0.6	0.6	ug/L
BK34763	\$8260DP25R	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5	1	1	ug/L
BK34763	\$8260DP25R	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	5	0.4	0.4	ug/L
BK34763	\$8260DP25R	Toluene	NY / TAGM - Volatile Organics / Groundwater Standards	12	20	5	5	ug/L
BK34763	\$8260DP25R	Toluene	NY / TOGS - Water Quality / GA Criteria	12	20	5	5	ug/L
BK34763	\$8260DP25R	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	5	0.4	0.4	ug/L
BK34763	\$8260DP25R	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5	1	1	ug/L
BK34763	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	5	0.0006	0.0006	ug/L
BK34763	\$8260DP25R	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	280	20	5	5	ug/L
BK34763	\$8260DP25R	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	280	20	5	5	ug/L
BK34763	\$8260DP25R	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	95	20	5	5	ug/L
BK34763	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5	0.04	0.04	ug/L
BK34763	\$8260DP25R	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	20	20	5	5	ug/L
BK34763	\$8260DP25R	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5	3	3	ug/L
BK34763	\$8260DP25R	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5	4.7	4.7	ug/L
BK34763	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5	0.04	0.04	ug/L
BK34763	\$8260DP25R	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	5	0.5	0.5	ug/L
BK34763	\$8260DP25R	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	1300	100	5	5	ug/L

## Sample Criteria Exceedences Report

Criteria: NY: GW

GBK34758 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK34763	\$8260DP25R	Naphthalene	NY / TOGS - Water Quality / GA Criteria	1300	100	10	10		ug/L
BK34763	\$8270WMDPR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	500	5	5		ug/L
BK34763	\$8270WMDPR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	500	5	5		ug/L
BK34763	\$8270WMDPR	2-Chlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	50	50		ug/L
BK34763	\$8270WMDPR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	100	3	3		ug/L
BK34763	\$8270WMDPR	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	100	4.7	4.7		ug/L
BK34763	\$8270WMDPR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	Hexachloroethane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	Nitrobenzene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.4	0.4		ug/L
BK34763	\$8270WMDPR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	Bis(2-chloroethoxy)methane	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	Benzoic acid	NY / TAGM - Volatile Organics / Groundwater Standards	ND	500	50	50		ug/L
BK34763	\$8270WMDPR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	Naphthalene	NY / TAGM - Semi-Volatiles / Groundwater Standards	720	100	10	10		ug/L
BK34763	\$8270WMDPR	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	720	100	5	5		ug/L
BK34763	\$8270WMDPR	Naphthalene	NY / TOGS - Water Quality / GA Criteria	720	100	10	10		ug/L
BK34763	\$8270WMDPR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	200	5	5		ug/L
BK34763	\$8270WMDPR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	200	5	5		ug/L
BK34763	\$8270WMDPR	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.5	0.5		ug/L
BK34763	\$8270WMDPR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	Hexachlorocyclopentadiene	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1		ug/L
BK34763	\$8270WMDPR	2-Chloronaphthalene	NY / TOGS - Water Quality / GA Criteria	ND	100	10	10		ug/L
BK34763	\$8270WMDPR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	500	5	5		ug/L
BK34763	\$8270WMDPR	2,6-Dinitrotoluene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	2,6-Dinitrotoluene	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5		ug/L
BK34763	\$8270WMDPR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	500	5	5		ug/L
BK34763	\$8270WMDPR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	500	5	5		ug/L

## Sample Criteria Exceedences Report

Criteria: NY: GW

GBK34758 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK34763	\$8270WMDPR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5	5	ug/L
BK34763	\$8270WMDPR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	5	ug/L
BK34763	\$8270WMDPR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1	1	ug/L
BK34763	\$8270WMDPR	Dibenzofuran	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5	5	ug/L
BK34763	\$8270WMDPR	2,4-Dinitrotoluene	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	5	ug/L
BK34763	\$8270WMDPR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5	5	ug/L
BK34763	\$8270WMDPR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1	1	ug/L
BK34763	\$8270WMDPR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	500	5	5	5	ug/L
BK34763	\$8270WMDPR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	500	5	5	5	ug/L
BK34763	\$8270WMDPR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	500	1	1	1	ug/L
BK34763	\$8270WMDPR	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	0.35	0.35	0.35	ug/L
BK34763	\$8270WMDPR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.04	0.04	0.04	ug/L
BK34763	\$8270WMDPR	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	1	1	1	ug/L
BK34763	\$8270WMDPR	Pentachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	100	1	1	1	ug/L
BK34763	\$8270WMDPR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	5	ug/L
BK34763	\$8270WMDPR	Bis(2-ethylhexyl)phthalate	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	50	50	50	ug/L
BK34763	\$8270WMDPR	Bis(2-ethylhexyl)phthalate	NY / TOGS - Water Quality / GA Criteria	ND	100	5	5	5	ug/L
BK34763	\$8270WMDPR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	200	5	5	5	ug/L
BK34763	\$8270WMDPR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	100	0.002	0.002	0.002	ug/L
BK34763	\$8270WMDPR	Benzo(ghi)perylene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	100	5	5	5	ug/L
BK34763	\$DPPEST_GA	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.5	0.1	0.1	0.1	ug/L
BK34763	\$DPPEST_GA	d-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.05	0.05	0.05	ug/L
BK34763	\$DPPEST_GA	g-BHC (Lindane)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.13	0.05	0.05	0.05	ug/L
BK34763	\$DPPEST_GA	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.49	0.075	0.01	0.01	0.01	ug/L
BK34763	\$DPPEST_GA	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.01	0.01	0.01	ug/L
BK34763	\$DPPEST_GA	g-chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1	0.1	ug/L
BK34763	\$DPPEST_GA	Endosulfan II	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1	0.1	ug/L
BK34763	\$DPPEST_GA	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.01	0.01	0.01	ug/L
BK34763	\$DPPEST_GA	Endosulfan I	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1	0.1	ug/L
BK34763	\$DPPEST_GA	b-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.13	0.05	0.05	0.05	ug/L
BK34763	\$DPPEST_GA	Aldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.075	0.01	0.01	0.01	ug/L
BK34763	\$DPPEST_GA	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.01	0.01	0.01	ug/L

## Sample Criteria Exceedences Report

Criteria: NY: GW

GBK34758 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BK34763	\$DPPEST_GA	a-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.13	0.05	0.05		ug/L
BK34763	\$DPPEST_GA	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.01	0.01		ug/L
BK34763	\$DPPEST_GA	Endosulfan Sulfate	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1		ug/L
BK34763	\$DPPEST_GA	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.01	0.01		ug/L
BK34763	\$DPPEST_GA	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.01	0.01		ug/L
BK34763	\$DPPEST_GA	g-BHC (Lindane)	NY / TOGS - Water Quality / GA Criteria	ND	0.13	0.05	0.05		ug/L
BK34763	\$DPPEST_GA	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04		ug/L
BK34763	\$DPPEST_GA	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.03	0.03		ug/L
BK34763	\$DPPEST_GA	d-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04		ug/L
BK34763	\$DPPEST_GA	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.05	0.05		ug/L
BK34763	\$DPPEST_GA	b-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.13	0.04	0.04		ug/L
BK34763	\$DPPEST_GA	Alachlor	NY / TOGS - Water Quality / GA Criteria	ND	3.8	0.5	0.5		ug/L
BK34763	\$DPPEST_GA	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.13	0.01	0.01		ug/L
BK34763	\$DPPEST_GA	4,4' -DDT	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.2	0.2		ug/L
BK34763	\$DPPEST_GA	4,4' -DDE	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.2	0.2		ug/L
BK34763	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	13	0.06	0.06		ug/L
BK34763	\$DPPEST_GA	Dieldrin	NY / TOGS - Water Quality / GA Criteria	0.49	0.075	0.004	0.004		ug/L
BK34763	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	72.3	1.0	0.1	0.1		mg/L
BK34763	AS-WMDP	Arsenic - LDL	NY / TOGS - Water Quality / GA Criteria	0.113	0.020	0.025	0.025		mg/L
BK34763	BA-WMDP	Barium	NY / TOGS - Water Quality / GA Criteria	2.92	0.050	1	1		mg/L
BK34763	CD-WMDP	Cadmium	NY / TOGS - Water Quality / GA Criteria	0.009	0.020	0.005	0.005		mg/L
BK34763	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.273	0.005	0.05	0.05		mg/L
BK34763	CU-WMDP	Copper	NY / TOGS - Water Quality / GA Criteria	1.07	0.025	0.2	0.2		mg/L
BK34763	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	115	0.11	35	35		mg/L
BK34763	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.43	0.005	0.3	0.3		mg/L
BK34763	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	704	11	20	20		mg/L
BK34763	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	442	0.05	0.3	0.3		mg/L
BK34763	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	172	0.05	35	35		mg/L
BK34763	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	3.83	0.025	0.3	0.3		mg/L
BK34763	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	745	10	20	20		mg/L
BK34763	NI-WMDP	Nickel	NY / TOGS - Water Quality / GA Criteria	0.231	0.020	0.1	0.1		mg/L
BK34763	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	3.30	0.010	0.025	0.025		mg/L
BK34763	SB-WMDP	Antimony	NY / TOGS - Water Quality / GA Criteria	0.010	0.002	0.003	0.003		mg/L
BK34764	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.0006	0.0006		ug/L
BK34764	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04		ug/L
BK34764	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04		ug/L
BK34764	\$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	1.2	0.02	0.002	0.002		ug/L
BK34764	\$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	1.1	0.02	0.002	0.002		ug/L
BK34764	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.90	0.02	0.002	0.002		ug/L
BK34764	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.91	0.02	0.002	0.002		ug/L
BK34764	\$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	1.2	0.02	0.002	0.002		ug/L

**Sample Criteria Exceedences Report**

Criteria: NY: GW

**GBK34758 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK34764	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.57	0.02	0.002	0.002	ug/L
BK34764	\$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.57	0.02	0.002	0.002	ug/L
BK34764	\$DP8270-SIMR	Benzo(a)anthracene	NY / TOGS - Water Quality / GA Criteria	1.2	0.02	0.002	0.002	ug/L
BK34764	\$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.90	0.02	0.002	0.002	ug/L
BK34764	\$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.91	0.02	0.002	0.002	ug/L
BK34764	\$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	1.2	0.02	0.002	0.002	ug/L
BK34764	\$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.06	0.06	ug/L
BK34764	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	5.9	1.0	0.1	0.1	mg/L
BK34764	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	67.2	0.11	35	35	mg/L
BK34764	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	4.52	0.053	0.3	0.3	mg/L
BK34764	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	326	1.1	20	20	mg/L
BK34764	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	11.1	0.05	0.3	0.3	mg/L
BK34764	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	61.9	0.05	35	35	mg/L
BK34764	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	4.20	0.025	0.3	0.3	mg/L
BK34764	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	318	10	20	20	mg/L
BK34764	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.034	0.010	0.025	0.025	mg/L
BK34765	\$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BK34765	\$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK34765	\$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# NY Temperature Narration

January 11, 2016

SDG I.D.: GBK34758

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)



NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Customer: EGC  
 Address: 1408 Middle Country Rd Ridge NY

Project: 101 Lincoln Ave Bronx  
 Report to: EGC  
 Invoice to: FBC

Project P.O.: \_\_\_\_\_

This section **MUST** be completed with **Bottle Quantities**.

Sampler's Signature: \_\_\_\_\_  
 Date: 12/19

Client Sample - Information - Identification  
 Customer Sample Identification: Greg Swircsoa  
 Date: 12/19

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
34758	MW1	GW	12/19	
34759	MW2			
34760	MW3			
34761	MW4			
34762	MW5			
34763	MW6			
34764	GW Duplicate			
34765	Trip Blanks			

Analysis Request

TAGM 4046 GW  
 TAGM 4046 SOIL  
 NY375 Unrestricted Use Soil  
 NY375 Residential Soil  
 Restricted/Residential:  
 Commercial  
 Industrial

Soil VOA Vials	methanol	1oz
GL soil container		
40 ml VOA vial	As	1oz
GL Amber 100ml	As HCl	
PL 12504	[ 250ml ] [ 150ml ] [ 100ml ]	
PL 12504	[ 250ml ] [ 150ml ] [ 100ml ]	
PL 12504	[ 250ml ] [ 150ml ] [ 100ml ]	
PL 12504	[ 250ml ] [ 150ml ] [ 100ml ]	
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PL 12504	[ 250ml ] [ 150ml ] [ 100ml ]	
PL 12504	[ 250ml ] [ 150ml ] [ 100ml ]	
PL 12504	[ 250ml ] [ 150ml ] [ 100ml ]	

Relinquished by: [Signature]  
 Accepted by: [Signature]  
 Date: 12-8-15 11:13C  
12-8-15 1522  
 Comments, Special Requirements or Regulations:

Turnaround:

NJ  
 Res. Criteria  
 Non-Res. Criteria  
 Impact to GW Soil Cleanup Criteria  
 GW Criteria

NY  
 TAGM 4046 GW  
 TAGM 4046 SOIL  
 NY375 Unrestricted Use Soil  
 NY375 Residential Soil  
 Restricted/Residential:  
 Commercial  
 Industrial

Data Format  
 Phoenix Std Report  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 NJ HazSite EDD  
 NY EZ EDD (ASP)  
 Other

Data Package  
 NJ Reduced Deliv.  
 NY Enhanced (ASP B)  
 Other

State where samples were collected: NY





Thursday, January 07, 2016

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 101 LINCOLN AVE BRONX NY  
Sample ID#s: BK34750 - BK34754, BK34756 - BK34757

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



**NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE**

**Client: Environmental Business Consultants**  
**Project: 101 LINCOLN AVE BRONX NY**  
**Laboratory Project: GBK34750**



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823



# NY Analytical Services Protocol Format

January 07, 2016

SDG I.D.: GBK34750

Environmental Business Consultants 101 LINCOLN AVE BRONX NY

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## Methodology Summary

### Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.

## Sample Id Cross Reference

Client Id	Lab Id	Matrix
SV 2	BK34750	AIR
SV 1	BK34751	AIR
SV 4	BK34752	AIR
SV 3	BK34753	AIR
SV 7	BK34754	AIR
SV 8	BK34756	AIR
SV 6	BK34757	AIR

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Tel. (860) 645-1102 Fax (860) 645-0823



# NY Analytical Services Protocol Format

January 07, 2016

SDG I.D.: GBK34750

Environmental Business Consultants 101 LINCOLN AVE BRONX NY

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## Laboratory Chronicle

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BK34750	Volatiles (TO15)	12/08/15	12/10/15	12/10/15	KCA	Y
BK34751	Volatiles (TO15)	12/08/15	12/10/15	12/10/15	KCA	Y
BK34752	Volatiles (TO15)	12/08/15	12/10/15	12/10/15	KCA	Y
BK34753	Volatiles (TO15)	12/08/15	12/10/15	12/10/15	KCA	Y
BK34754	Volatiles (TO15)	12/08/15	12/10/15	12/10/15	KCA	Y
BK34756	Volatiles (TO15)	12/08/15	12/10/15	12/10/15	KCA	Y
BK34757	Volatiles (TO15)	12/08/15	12/11/15	12/11/15	KCA	Y

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Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

January 07, 2016

SDG I.D.: GBK34750

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Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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**Analysis Report**  
 January 07, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:  
 Canister Id: 12867

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 12/08/15                      11:37  
 12/09/15                      15:22

Laboratory Data

SDG ID: GBK34750  
 Phoenix ID: BK34750

Project ID: 101 LINCOLN AVE BRONX NY  
 Client ID: SV 2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
<b><u>Volatiles (TO15)</u></b>										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trimethylbenzene	2.30	0.204	0.204	11.3	1.00	1.00	12/10/15	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/10/15	KCA	1	
1,3,5-Trimethylbenzene	0.541	0.204	0.204	2.66	1.00	1.00	12/10/15	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/10/15	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1	1
4-Ethyltoluene	1.27	0.204	0.204	6.24	1.00	1.00	12/10/15	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1	
Acetone	31.9	0.421	0.421	75.7	1.00	1.00	12/10/15	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/10/15	KCA	1	
Benzene	55.5	D 3.13	3.13	177	10.0	10.0	12/10/15	KCA	10	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/10/15	KCA	1	

Client ID: SV 2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/10/15	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/10/15	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/10/15	KCA	1
Carbon Disulfide	4.47	0.321	0.321	13.9	1.00	1.00	12/10/15	KCA	1
Carbon Tetrachloride	ND	0.040	0.040	ND	0.25	0.25	12/10/15	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/10/15	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	12/10/15	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	12/10/15	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Cyclohexane	22.4	0.291	0.291	77.1	1.00	1.00	12/10/15	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/10/15	KCA	1
Dichlorodifluoromethane	0.445	0.202	0.202	2.20	1.00	1.00	12/10/15	KCA	1
Ethanol	5.35	0.531	0.531	10.1	1.00	1.00	12/10/15	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Ethylbenzene	0.348	0.230	0.230	1.51	1.00	1.00	12/10/15	KCA	1
Heptane	2.60	0.244	0.244	10.6	1.00	1.00	12/10/15	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/10/15	KCA	1
Hexane	7.24	0.284	0.284	25.5	1.00	1.00	12/10/15	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	12/10/15	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/10/15	KCA	1
m,p-Xylene	1.34	0.230	0.230	5.81	1.00	1.00	12/10/15	KCA	1
Methyl Ethyl Ketone	3.00	0.339	0.339	8.84	1.00	1.00	12/10/15	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	12/10/15	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
o-Xylene	0.598	0.230	0.230	2.60	1.00	1.00	12/10/15	KCA	1
Propylene	143	D 5.81	5.81	246	10.0	10.0	12/10/15	KCA	10
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/10/15	KCA	1
Tetrachloroethene	0.262	0.037	0.037	1.78	0.25	0.25	12/10/15	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/10/15	KCA	1
Toluene	2.08	0.266	0.266	7.83	1.00	1.00	12/10/15	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Trichloroethene	0.197	0.047	0.047	1.06	0.25	0.25	12/10/15	KCA	1
Trichlorofluoromethane	ND	0.178	0.178	ND	1.00	1.00	12/10/15	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/10/15	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	12/10/15	KCA	1
<b><u>QA/QC Surrogates</u></b>									
% Bromofluorobenzene	104	%	%	104	%	%	12/10/15	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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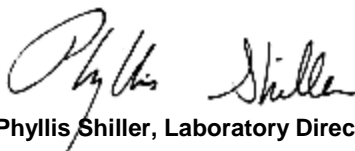
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**January 07, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 07, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:  
 Canister Id: 488

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 12/08/15                      11:05  
 12/09/15                      15:22

Laboratory Data

SDG ID: GBK34750  
 Phoenix ID: BK34751

Project ID: 101 LINCOLN AVE BRONX NY  
 Client ID: SV 1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1
1,1,1-Trichloroethane	0.243	0.183	0.183	1.32	1.00	1.00	12/10/15	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/10/15	KCA	1
1,2,4-Trimethylbenzene	3.91	0.204	0.204	19.2	1.00	1.00	12/10/15	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/10/15	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/10/15	KCA	1
1,3,5-Trimethylbenzene	0.938	0.204	0.204	4.61	1.00	1.00	12/10/15	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/10/15	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1
4-Ethyltoluene	2.25	0.204	0.204	11.1	1.00	1.00	12/10/15	KCA	1
4-Isopropyltoluene	0.209	0.182	0.182	1.15	1.00	1.00	12/10/15	KCA	1
4-Methyl-2-pentanone(MIBK)	0.542	0.244	0.244	2.22	1.00	1.00	12/10/15	KCA	1
Acetone	38.4	0.421	0.421	91.2	1.00	1.00	12/10/15	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/10/15	KCA	1
Benzene	0.463	0.313	0.313	1.48	1.00	1.00	12/10/15	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/10/15	KCA	1

Client ID: SV 1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/10/15	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/10/15	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/10/15	KCA	1
Carbon Disulfide	1.10	0.321	0.321	3.42	1.00	1.00	12/10/15	KCA	1
Carbon Tetrachloride	ND	0.040	0.040	ND	0.25	0.25	12/10/15	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/10/15	KCA	1
Chloroform	0.746	0.205	0.205	3.64	1.00	1.00	12/10/15	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	12/10/15	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	12/10/15	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/10/15	KCA	1
Dichlorodifluoromethane	0.528	0.202	0.202	2.61	1.00	1.00	12/10/15	KCA	1
Ethanol	3.79	S 0.531	0.531	7.14	1.00	1.00	12/10/15	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Ethylbenzene	0.825	0.230	0.230	3.58	1.00	1.00	12/10/15	KCA	1
Heptane	0.280	0.244	0.244	1.15	1.00	1.00	12/10/15	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/10/15	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	12/10/15	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	12/10/15	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/10/15	KCA	1
m,p-Xylene	3.35	0.230	0.230	14.5	1.00	1.00	12/10/15	KCA	1
Methyl Ethyl Ketone	4.69	0.339	0.339	13.8	1.00	1.00	12/10/15	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	12/10/15	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
o-Xylene	1.32	0.230	0.230	5.73	1.00	1.00	12/10/15	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	12/10/15	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/10/15	KCA	1
Tetrachloroethene	23.7	0.037	0.037	161	0.25	0.25	12/10/15	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/10/15	KCA	1
Toluene	4.35	0.266	0.266	16.4	1.00	1.00	12/10/15	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Trichloroethene	0.099	0.047	0.047	0.53	0.25	0.25	12/10/15	KCA	1
Trichlorofluoromethane	ND	0.178	0.178	ND	1.00	1.00	12/10/15	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/10/15	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	12/10/15	KCA	1
<b><u>QA/QC Surrogates</u></b>									
% Bromofluorobenzene	101	%	%	101	%	%	12/10/15	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 07, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 07, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:  
 Canister Id: 9767

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 12/08/15                      11:44  
 12/09/15                      15:22

Laboratory Data

SDG ID: GBK34750  
 Phoenix ID: BK34752

Project ID: 101 LINCOLN AVE BRONX NY  
 Client ID: SV 4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
<b><u>Volatiles (TO15)</u></b>										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	1
1,1,1-Trichloroethane	1.23	0.183	0.183	6.71	1.00	1.00	12/10/15	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trimethylbenzene	6.94	0.204	0.204	34.1	1.00	1.00	12/10/15	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/10/15	KCA	1	
1,3,5-Trimethylbenzene	1.36	0.204	0.204	6.68	1.00	1.00	12/10/15	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/10/15	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1	1
4-Ethyltoluene	2.97	0.204	0.204	14.6	1.00	1.00	12/10/15	KCA	1	1
4-Isopropyltoluene	0.327	0.182	0.182	1.79	1.00	1.00	12/10/15	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.483	0.244	0.244	1.98	1.00	1.00	12/10/15	KCA	1	
Acetone	240	DS 4.21	4.21	570	10.0	10.0	12/10/15	KCA	10	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/10/15	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	12/10/15	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/10/15	KCA	1	

Client ID: SV 4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/10/15	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/10/15	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/10/15	KCA	1
Carbon Disulfide	0.876	0.321	0.321	2.73	1.00	1.00	12/10/15	KCA	1
Carbon Tetrachloride	0.046	0.040	0.040	0.29	0.25	0.25	12/10/15	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/10/15	KCA	1
Chloroform	0.395	0.205	0.205	1.93	1.00	1.00	12/10/15	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	12/10/15	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Cyclohexane	12.4	0.291	0.291	42.7	1.00	1.00	12/10/15	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/10/15	KCA	1
Dichlorodifluoromethane	0.449	0.202	0.202	2.22	1.00	1.00	12/10/15	KCA	1
Ethanol	8.75	0.531	0.531	16.5	1.00	1.00	12/10/15	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Ethylbenzene	0.483	0.230	0.230	2.10	1.00	1.00	12/10/15	KCA	1
Heptane	0.973	0.244	0.244	3.99	1.00	1.00	12/10/15	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/10/15	KCA	1
Hexane	15.5	0.284	0.284	54.6	1.00	1.00	12/10/15	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	12/10/15	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/10/15	KCA	1
m,p-Xylene	1.88	0.230	0.230	8.16	1.00	1.00	12/10/15	KCA	1
Methyl Ethyl Ketone	4.61	0.339	0.339	13.6	1.00	1.00	12/10/15	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	12/10/15	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
o-Xylene	0.947	0.230	0.230	4.11	1.00	1.00	12/10/15	KCA	1
Propylene	1.85	0.581	0.581	3.18	1.00	1.00	12/10/15	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/10/15	KCA	1
Tetrachloroethene	4.47	0.037	0.037	30.3	0.25	0.25	12/10/15	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/10/15	KCA	1
Toluene	3.07	0.266	0.266	11.6	1.00	1.00	12/10/15	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Trichloroethene	0.258	0.047	0.047	1.39	0.25	0.25	12/10/15	KCA	1
Trichlorofluoromethane	ND	0.178	0.178	ND	1.00	1.00	12/10/15	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/10/15	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	12/10/15	KCA	1
<b><u>QA/QC Surrogates</u></b>									
% Bromofluorobenzene	102	%	%	102	%	%	12/10/15	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

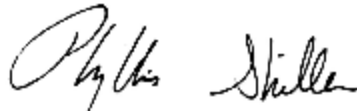
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 07, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 07, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:  
 Canister Id: 12868

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 12/08/15                      12:00  
 12/09/15                      15:22

Laboratory Data

SDG ID: GBK34750  
 Phoenix ID: BK34753

Project ID: 101 LINCOLN AVE BRONX NY  
 Client ID: SV 3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
<b><u>Volatiles (TO15)</u></b>										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trimethylbenzene	6.13	0.204	0.204	30.1	1.00	1.00	12/10/15	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/10/15	KCA	1	
1,3,5-Trimethylbenzene	1.31	0.204	0.204	6.44	1.00	1.00	12/10/15	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/10/15	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1	1
4-Ethyltoluene	2.91	0.204	0.204	14.3	1.00	1.00	12/10/15	KCA	1	1
4-Isopropyltoluene	0.270	0.182	0.182	1.48	1.00	1.00	12/10/15	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.402	0.244	0.244	1.65	1.00	1.00	12/10/15	KCA	1	
Acetone	83.0	DS 2.11	2.11	197	5.01	5.01	12/10/15	KCA	5	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/10/15	KCA	1	
Benzene	0.667	0.313	0.313	2.13	1.00	1.00	12/10/15	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/10/15	KCA	1	

Client ID: SV 3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/10/15	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/10/15	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/10/15	KCA	1
Carbon Disulfide	5.09	0.321	0.321	15.8	1.00	1.00	12/10/15	KCA	1
Carbon Tetrachloride	ND	0.040	0.040	ND	0.25	0.25	12/10/15	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/10/15	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	12/10/15	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	12/10/15	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Cyclohexane	1.45	0.291	0.291	4.99	1.00	1.00	12/10/15	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/10/15	KCA	1
Dichlorodifluoromethane	0.453	0.202	0.202	2.24	1.00	1.00	12/10/15	KCA	1
Ethanol	5.92	0.531	0.531	11.1	1.00	1.00	12/10/15	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Ethylbenzene	0.471	0.230	0.230	2.04	1.00	1.00	12/10/15	KCA	1
Heptane	0.694	0.244	0.244	2.84	1.00	1.00	12/10/15	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/10/15	KCA	1
Hexane	3.62	0.284	0.284	12.8	1.00	1.00	12/10/15	KCA	1
Isopropylalcohol	3.01	S 0.407	0.407	7.39	1.00	1.00	12/10/15	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/10/15	KCA	1
m,p-Xylene	1.95	0.230	0.230	8.46	1.00	1.00	12/10/15	KCA	1
Methyl Ethyl Ketone	2.65	0.339	0.339	7.81	1.00	1.00	12/10/15	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	12/10/15	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
o-Xylene	1.02	0.230	0.230	4.43	1.00	1.00	12/10/15	KCA	1
Propylene	3.51	0.581	0.581	6.04	1.00	1.00	12/10/15	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/10/15	KCA	1
Tetrachloroethene	0.271	0.037	0.037	1.84	0.25	0.25	12/10/15	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/10/15	KCA	1
Toluene	2.38	0.266	0.266	8.96	1.00	1.00	12/10/15	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	12/10/15	KCA	1
Trichlorofluoromethane	ND	0.178	0.178	ND	1.00	1.00	12/10/15	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/10/15	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	12/10/15	KCA	1
<b><u>QA/QC Surrogates</u></b>									
% Bromofluorobenzene	102	%	%	102	%	%	12/10/15	KCA	1



Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

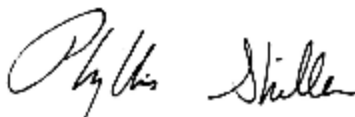
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 07, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 07, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:  
 Canister Id: 222

## Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date: 12/08/15 11:10  
 12/09/15 15:22

## Laboratory Data

SDG ID: GBK34750  
 Phoenix ID: BK34754

Project ID: 101 LINCOLN AVE BRONX NY  
 Client ID: SV 7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<b>Volatiles (TO15)</b>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/10/15	KCA	1
1,2,4-Trimethylbenzene	0.774	0.204	0.204	3.80	1.00	1.00	12/10/15	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/10/15	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/10/15	KCA	1
1,3,5-Trimethylbenzene	0.269	0.204	0.204	1.32	1.00	1.00	12/10/15	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/10/15	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1
4-Ethyltoluene	0.592	0.204	0.204	2.91	1.00	1.00	12/10/15	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1
Acetone	13.1	0.421	0.421	31.1	1.00	1.00	12/10/15	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/10/15	KCA	1
Benzene	1.33	0.313	0.313	4.25	1.00	1.00	12/10/15	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/10/15	KCA	1

Client ID: SV 7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/10/15	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/10/15	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/10/15	KCA	1
Carbon Disulfide	3.96	0.321	0.321	12.3	1.00	1.00	12/10/15	KCA	1
Carbon Tetrachloride	ND	0.040	0.040	ND	0.25	0.25	12/10/15	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/10/15	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	12/10/15	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	12/10/15	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Cyclohexane	2.58	0.291	0.291	8.88	1.00	1.00	12/10/15	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/10/15	KCA	1
Dichlorodifluoromethane	0.458	0.202	0.202	2.26	1.00	1.00	12/10/15	KCA	1
Ethanol	3.88	S 0.531	0.531	7.31	1.00	1.00	12/10/15	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Ethylbenzene	0.617	0.230	0.230	2.68	1.00	1.00	12/10/15	KCA	1
Heptane	21.3	0.244	0.244	87.2	1.00	1.00	12/10/15	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/10/15	KCA	1
Hexane	53.3	DS 1.42	1.42	188	5.00	5.00	12/10/15	KCA	5
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	12/10/15	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/10/15	KCA	1
m,p-Xylene	2.03	0.230	0.230	8.81	1.00	1.00	12/10/15	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	12/10/15	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Methylene Chloride	0.415	S 0.288	0.288	1.44	1.00	1.00	12/10/15	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
o-Xylene	0.634	0.230	0.230	2.75	1.00	1.00	12/10/15	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	12/10/15	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/10/15	KCA	1
Tetrachloroethene	0.139	0.037	0.037	0.94	0.25	0.25	12/10/15	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/10/15	KCA	1
Toluene	4.88	0.266	0.266	18.4	1.00	1.00	12/10/15	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	12/10/15	KCA	1
Trichlorofluoromethane	ND	0.178	0.178	ND	1.00	1.00	12/10/15	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/10/15	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	12/10/15	KCA	1
<b><u>QA/QC Surrogates</u></b>									
% Bromofluorobenzene	103	%	%	103	%	%	12/10/15	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 07, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 07, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:  
 Canister Id: 13651

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 12/08/15                      11:55  
 12/09/15                      15:22

Laboratory Data

SDG ID: GBK34750  
 Phoenix ID: BK34756

Project ID: 101 LINCOLN AVE BRONX NY  
 Client ID: SV 8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
<b><u>Volatiles (TO15)</u></b>										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/10/15	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/10/15	KCA	1	
1,2,4-Trimethylbenzene	1.96	0.204	0.204	9.6	1.00	1.00	12/10/15	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/10/15	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/10/15	KCA	1	
1,3,5-Trimethylbenzene	0.467	0.204	0.204	2.29	1.00	1.00	12/10/15	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/10/15	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/10/15	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/10/15	KCA	1	1
4-Ethyltoluene	1.06	0.204	0.204	5.21	1.00	1.00	12/10/15	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.317	0.244	0.244	1.30	1.00	1.00	12/10/15	KCA	1	
Acetone	32.7	0.421	0.421	77.6	1.00	1.00	12/10/15	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/10/15	KCA	1	
Benzene	0.470	0.313	0.313	1.50	1.00	1.00	12/10/15	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/10/15	KCA	1	

Client ID: SV 8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/10/15	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/10/15	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/10/15	KCA	1
Carbon Disulfide	0.751	0.321	0.321	2.34	1.00	1.00	12/10/15	KCA	1
Carbon Tetrachloride	ND	0.040	0.040	ND	0.25	0.25	12/10/15	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/10/15	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/10/15	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	12/10/15	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	12/10/15	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	12/10/15	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/10/15	KCA	1
Dichlorodifluoromethane	0.468	0.202	0.202	2.31	1.00	1.00	12/10/15	KCA	1
Ethanol	4.23	S 0.531	0.531	7.97	1.00	1.00	12/10/15	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Ethylbenzene	0.335	0.230	0.230	1.45	1.00	1.00	12/10/15	KCA	1
Heptane	0.506	0.244	0.244	2.07	1.00	1.00	12/10/15	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/10/15	KCA	1
Hexane	0.552	S 0.284	0.284	1.94	1.00	1.00	12/10/15	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	12/10/15	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/10/15	KCA	1
m,p-Xylene	1.16	0.230	0.230	5.03	1.00	1.00	12/10/15	KCA	1
Methyl Ethyl Ketone	1.09	0.339	0.339	3.21	1.00	1.00	12/10/15	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/10/15	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	12/10/15	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
o-Xylene	0.549	0.230	0.230	2.38	1.00	1.00	12/10/15	KCA	1
Propylene	0.589	0.581	0.581	1.01	1.00	1.00	12/10/15	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/10/15	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/10/15	KCA	1
Tetrachloroethene	3.51	0.037	0.037	23.8	0.25	0.25	12/10/15	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/10/15	KCA	1
Toluene	2.23	0.266	0.266	8.40	1.00	1.00	12/10/15	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/10/15	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/10/15	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	12/10/15	KCA	1
Trichlorofluoromethane	ND	0.178	0.178	ND	1.00	1.00	12/10/15	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/10/15	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	12/10/15	KCA	1
<b><u>QA/QC Surrogates</u></b>									
% Bromofluorobenzene	101	%	%	101	%	%	12/10/15	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

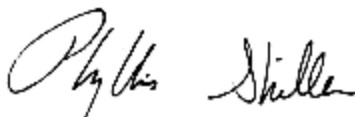
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**January 07, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 07, 2016

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:  
 Canister Id: 12864

Custody Information

Collected by: GS  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 12/08/15                      11:56  
 12/09/15                      15:22

Laboratory Data

SDG ID: GBK34750  
 Phoenix ID: BK34757

Project ID: 101 LINCOLN AVE BRONX NY  
 Client ID: SV 6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
<b><u>Volatiles (TO15)</u></b>										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/11/15	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/11/15	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/11/15	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/11/15	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/11/15	KCA	1	
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/11/15	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/11/15	KCA	1	
1,2,4-Trimethylbenzene	6.03	0.204	0.204	29.6	1.00	1.00	12/11/15	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/11/15	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/11/15	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/11/15	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/11/15	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/11/15	KCA	1	
1,3,5-Trimethylbenzene	1.32	0.204	0.204	6.49	1.00	1.00	12/11/15	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/11/15	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/11/15	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/11/15	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/11/15	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/11/15	KCA	1	1
4-Ethyltoluene	2.72	0.204	0.204	13.4	1.00	1.00	12/11/15	KCA	1	1
4-Isopropyltoluene	0.244	0.182	0.182	1.34	1.00	1.00	12/11/15	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.700	0.244	0.244	2.87	1.00	1.00	12/11/15	KCA	1	
Acetone	255	DS 4.21	4.21	605	10.0	10.0	12/11/15	KCA	10	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/11/15	KCA	1	
Benzene	0.766	0.313	0.313	2.45	1.00	1.00	12/11/15	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/11/15	KCA	1	



Client ID: SV 6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/11/15	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/11/15	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/11/15	KCA	1
Carbon Disulfide	3.44	0.321	0.321	10.7	1.00	1.00	12/11/15	KCA	1
Carbon Tetrachloride	ND	0.040	0.040	ND	0.25	0.25	12/11/15	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/11/15	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/11/15	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	12/11/15	KCA	1
Chloromethane	2.58	0.485	0.485	5.32	1.00	1.00	12/11/15	KCA	1
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/11/15	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/11/15	KCA	1
Cyclohexane	0.577	0.291	0.291	1.98	1.00	1.00	12/11/15	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/11/15	KCA	1
Dichlorodifluoromethane	0.445	0.202	0.202	2.20	1.00	1.00	12/11/15	KCA	1
Ethanol	9.51	0.531	0.531	17.9	1.00	1.00	12/11/15	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/11/15	KCA	1
Ethylbenzene	0.452	0.230	0.230	1.96	1.00	1.00	12/11/15	KCA	1
Heptane	0.594	0.244	0.244	2.43	1.00	1.00	12/11/15	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/11/15	KCA	1
Hexane	0.760	S 0.284	0.284	2.68	1.00	1.00	12/11/15	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	12/11/15	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/11/15	KCA	1
m,p-Xylene	1.76	0.230	0.230	7.64	1.00	1.00	12/11/15	KCA	1
Methyl Ethyl Ketone	4.69	0.339	0.339	13.8	1.00	1.00	12/11/15	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/11/15	KCA	1
Methylene Chloride	ND	0.288	0.288	ND	1.00	1.00	12/11/15	KCA	1
n-Butylbenzene	0.353	0.182	0.182	1.94	1.00	1.00	12/11/15	KCA	1
o-Xylene	1.06	0.230	0.230	4.60	1.00	1.00	12/11/15	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	12/11/15	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/11/15	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/11/15	KCA	1
Tetrachloroethene	0.486	0.037	0.037	3.29	0.25	0.25	12/11/15	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/11/15	KCA	1
Toluene	2.67	0.266	0.266	10.1	1.00	1.00	12/11/15	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/11/15	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/11/15	KCA	1
Trichloroethene	ND	0.047	0.047	ND	0.25	0.25	12/11/15	KCA	1
Trichlorofluoromethane	ND	0.178	0.178	ND	1.00	1.00	12/11/15	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/11/15	KCA	1
Vinyl Chloride	ND	0.098	0.098	ND	0.25	0.25	12/11/15	KCA	1
<b><u>QA/QC Surrogates</u></b>									
% Bromofluorobenzene	100	%	%	100	%	%	12/11/15	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

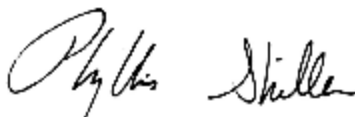
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**January 07, 2016**

**Reviewed and Released by: Jon Carlson, Project Manager**



Environmental Laboratories, Inc.  
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# QA/QC Report

January 07, 2016

## QA/QC Data

SDG I.D.: GBK34750

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 329184 (ppbv), QC Sample No: BK34750 (BK34750 (1X, 10X) , BK34751, BK34752 (1X, 10X) , BK34753 (1X, 5X) , BK34754 (1X, 5X) , BK34756)

### Volatiles

1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	0.183	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	0.183	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	0.247	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	0.252	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	133	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	103	11.3	11.2	2.30	2.27	1.3	70 - 130	20
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	0.166	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	0.247	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	0.216	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	95	2.66	2.55	0.541	0.520	4.0	70 - 130	20
1,3-Butadiene	ND	0.452	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	0.166	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	0.166	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	0.278	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	0.244	ND	1.00	137	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	0.204	ND	1.00	96	6.24	6.19	1.27	1.26	0.8	70 - 130	20
4-Isopropyltoluene	ND	0.182	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	20
Acetone	ND	0.421	ND	1.00	89	75.7	73.8	31.9	31.1	2.5	70 - 130	20
Acrylonitrile	ND	0.461	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	0.313	ND	1.00	96	149	141	46.6	44.3	5.1	70 - 130	20
Benzyl chloride	ND	0.193	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	0.149	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	0.097	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	0.257	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	0.321	ND	1.00	99	13.9	13.9	4.46	4.48	0.4	70 - 130	20
Carbon Tetrachloride	ND	0.040	ND	0.25	95	ND	ND	ND	ND	NC	70 - 130	20
Chlorobenzene	ND	0.217	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	0.379	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	0.205	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	0.484	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	0.291	ND	1.00	98	77.1	74.6	22.4	21.7	3.2	70 - 130	20
Dibromochloromethane	ND	0.117	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	0.202	ND	1.00	101	2.20	2.24	0.445	0.454	2.0	70 - 130	20

## QA/QC Data

SDG I.D.: GBK34750

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethanol	ND	0.531	ND	1.00	99	10.1 S	8.89 S	5.35 S	4.72 S	12.5	70 - 130	20
Ethyl acetate	ND	0.278	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	0.230	ND	1.00	96	1.51	1.53	0.348	0.353	1.4	70 - 130	20
Heptane	ND	0.244	ND	1.00	98	10.6	10.3	2.60	2.51	3.5	70 - 130	20
Hexachlorobutadiene	ND	0.094	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	0.284	ND	1.00	99	25.5	25.7	7.24	7.29	0.7	70 - 130	20
Isopropylalcohol	ND	0.407	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
Isopropylbenzene	ND	0.204	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	0.230	ND	1.00	100	5.81	5.81	1.34	1.34	0.0	70 - 130	20
Methyl Ethyl Ketone	ND	0.339	ND	1.00	97	8.84	8.22	3.00	2.79	7.3	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	0.288	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
n-Butylbenzene	ND	0.182	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	20
o-Xylene	ND	0.230	ND	1.00	97	2.60	2.56	0.598	0.591	1.2	70 - 130	20
Propylene	ND	0.581	ND	1.00	87	201	174	117	101	14.7	70 - 130	20
sec-Butylbenzene	ND	0.182	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	0.235	ND	1.00	71	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	0.037	ND	0.25	96	1.78	1.54	0.262	0.227	14.3	70 - 130	20
Tetrahydrofuran	ND	0.339	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	0.266	ND	1.00	98	7.83	7.87	2.08	2.09	0.5	70 - 130	20
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	0.047	ND	0.25	98	1.06	0.99	0.197	0.184	6.8	70 - 130	20
Trichlorofluoromethane	ND	0.178	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	20
Trichlorotrifluoroethane	ND	0.131	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	0.098	ND	0.25	102	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	95	%	95	%	101	104	102	104	102	1.9	70 - 130	20

QA/QC Batch 329338 (ppbv), QC Sample No: BK34757 (BK34757 (1X, 10X))

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	0.183	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	0.183	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	0.247	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	0.252	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	131	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	102	29.6	30.7	6.03	6.24	3.4	70 - 130	20
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	0.166	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	0.247	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	0.216	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	98	6.49	6.44	1.32	1.31	0.8	70 - 130	20
1,3-Butadiene	ND	0.452	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	0.166	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	0.166	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	0.278	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	0.244	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	0.204	ND	1.00	96	13.4	13.4	2.72	2.72	0.0	70 - 130	20
4-Isopropyltoluene	ND	0.182	ND	1.00	101	1.34	1.55	0.244	0.282	14.4	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	107	2.87	2.77	0.700	0.676	3.5	70 - 130	20
Acetone	ND	0.421	ND	1.00	94	534	520	225	219	2.7	70 - 130	20

## QA/QC Data

SDG I.D.: GBK34750

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Acrylonitrile	ND	0.461	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	0.313	ND	1.00	99	2.45	2.40	0.766	0.751	2.0	70 - 130	20
Benzyl chloride	ND	0.193	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	0.149	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	0.097	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	0.257	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	0.321	ND	1.00	100	10.7	10.9	3.44	3.50	1.7	70 - 130	20
Carbon Tetrachloride	ND	0.040	ND	0.25	97	ND	ND	ND	ND	NC	70 - 130	20
Chlorobenzene	ND	0.217	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	0.379	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	0.205	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	0.484	ND	1.00	105	5.32	4.77	2.58	2.31	11.0	70 - 130	20
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	0.291	ND	1.00	102	1.98	1.90	0.577	0.553	4.2	70 - 130	20
Dibromochloromethane	ND	0.117	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	0.202	ND	1.00	103	2.20	2.41	0.445	0.487	9.0	70 - 130	20
Ethanol	ND	0.531	ND	1.00	105	17.9	17.7	9.5	9.40	1.1	70 - 130	20
Ethyl acetate	ND	0.278	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	0.230	ND	1.00	95	1.96	2.05	0.452	0.472	4.3	70 - 130	20
Heptane	ND	0.244	ND	1.00	104	2.43	2.35	0.594	0.574	3.4	70 - 130	20
Hexachlorobutadiene	ND	0.094	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	0.284	ND	1.00	103	2.68 S	2.75 S	0.760 S	0.781 S	2.7	70 - 130	20
Isopropylalcohol	ND	0.407	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	20
Isopropylbenzene	ND	0.204	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	0.230	ND	1.00	100	7.64	7.81	1.76	1.80	2.2	70 - 130	20
Methyl Ethyl Ketone	ND	0.339	ND	1.00	103	13.8	13.3	4.69	4.51	3.9	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	0.288	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
n-Butylbenzene	ND	0.182	ND	1.00	106	1.94	1.97	0.353	0.359	1.7	70 - 130	20
o-Xylene	ND	0.230	ND	1.00	97	4.60	4.73	1.06	1.09	2.8	70 - 130	20
Propylene	ND	0.581	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	20
sec-Butylbenzene	ND	0.182	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	0.235	ND	1.00	73	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	0.037	ND	0.25	94	3.29	2.97	0.486	0.438	10.4	70 - 130	20
Tetrahydrofuran	ND	0.339	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	0.266	ND	1.00	100	10.1	9.8	2.67	2.61	2.3	70 - 130	20
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	0.047	ND	0.25	96	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	0.178	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	20
Trichlorotrifluoroethane	ND	0.131	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	0.098	ND	0.25	106	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	95	%	95	%	100	100	101	100	101	1.0	70 - 130	20

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

# QA/QC Data

SDG I.D.: GBK34750

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
January 07, 2016

# Sample Criteria Exceedences Report

## GBK34750 - EBC

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



587 East Middle Turnpike, P.O. Box 370, Meriden, CT 06460  
 Telephone: 860-663-1102 • Fax: 860-665-0823

**CHAIN OF CUSTODY RECORD**

**AIR ANALYSES**

800-827-5426

email: greg@phoenixlabs.com

P.O. # \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Data Delivery:  Fax #: \_\_\_\_\_

Email: 2/10

Phone #: \_\_\_\_\_

Report to: Kevin Waters  
 Customer: EBC  
 Address: 1908 Middle Country Rd  
Bridge 11961

Invoice to: EBC  
 Project Name: 101 Lincoln Ave, Bronx NY  
 Requested Deliverable: RCP  ASP CAT B   
 MQP  NJ Deliverables   
 State where samples collected: NY

Sampled by: Greg Swirson

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										MATRIX		ANALYSES		
		Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	SO <sub>2</sub> Gas	Grab (G) Composite (C)	TO-14	TO-15
		13614	6.0	-30		504041.7										
34750	SV2	13867	6.0	-30	-1	4959				917	1137	1219	-30	-5	X	X
34751	SV1	488	6.0	-30	-3	4979				915	105	1218	-30	-5	X	X
		480	6.0	-30		4995										
34752	SV4	9767	6.0	-30	-2	5946				930	1144	1218	-30	-3	X	X
34753	SV3	12868	6.0	-30	-3	3409				948	1200	1218	-30	-5	X	X
34754	SV7	222	6.0	-30	-1	5709				920	1170	1218	-29	-1	X	X
34755	SV5	12806	6.0	-30	-30	5048				945	215	1218	-30	-30	X	X
34756	SV8	13651	6.0	-30	-3	5658				939	1155	1218	-27	-2	X	X
34757	SV6	12804	6.0	-30	-1	5348				942	1156	1219	-27	-4	X	X

Relinquished by: [Signature] Date: 12-8-15  
 Accepted by: [Signature] Date: 12-8-15  
 Data Format:  Excel  PDF   
 Equis  Other:   
 GISKey

Requested Criteria: Coliforms  
 Quote Number: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 \* SV5 did not run

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.



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**APPENDIX - F**  
*Prior Reports*

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# PHASE I ENVIRONMENTAL SITE ASSESSMENT

for


**101 Lincoln Avenue  
Bronx, New York**

*Prepared For:*

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c/o David Yudelson  
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**Langan Project No. 170301301**

**LANGAN**

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## **EXECUTIVE SUMMARY**

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) was retained by Lincoln Avenue Associates, LLC (the "User") to prepare a Phase I Environmental Site Assessment (ESA) for the property located at 101 Lincoln Avenue in the Mott Haven section of the Bronx, New York ("Site"). The Site (Block 2316, Lot 1) is comprised of an approximate 133,700-square-foot irregularly shaped lot and contains a parking lot and a one-story, L-shaped warehouse building with a connected two-story office building encompassing approximately 83,064 square feet. The Site is bordered to the northeast by Bruckner Boulevard, to the southeast by Lincoln Avenue, to the southwest by Block 2316, Lot 35 followed by the Harlem River, and to the northwest by the Third Avenue Bridge. The Site has an "E" designation for air, noise, and hazardous materials as a result of the Port Morris/Bruckner Boulevard Rezoning (CEQR # 05DCP005X).

This Phase I ESA was conducted in accordance with the American Society for Testing Materials (ASTM) Practice E1527-13 (Standard Practice for ESA: Phase I ESA Process) and the United States Environmental Protection Agency's (USEPA) All Appropriate Inquiry (AAI) Rule. The objective of this Phase I ESA was to identify the presence or likely presence, use, or release on the Site of hazardous substances or petroleum products as defined in ASTM E1527-13 as a recognized environmental condition (REC) and to satisfy the AAI needed to qualify for the bona fide prospective purchaser liability protections available under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

The Phase I ESA identified the following RECs for the Site:

### REC 1 – Current and Historical Site Use

The following current and historical property uses are considered a REC:

- Coal Storage from approximately 1891 to 1908;
- New Jersey Rail Road Bronx Freight terminal from approximately 1908 through the 1950s; and
- Crane repair, paint shop, blacksmith shop, bus depot, and vehicle repair shop from approximately 1968 to present.

The Site is presently divided into two sections with Third Avenue Transit Inc. occupying the eastern portion of the Site and Oz Moving & Storage occupying the western portion. Third Avenue Transit Inc. utilizes the Site for storage of equipment & materials, school bus repairs,

and as office space. There is an oil-water separator with an apparent leak detection system in the middle of the Third Avenue Transit warehouse building. The condition of the oil-water separator system is unknown. Oz Moving & Storage utilizes the Site for the storage of equipment, materials and vehicles, and vehicle repair. Vehicle repair equipment and discolored and stained floors are apparent throughout the building. Inadvertent and/or incidental releases of solvents, petroleum products, polychlorinated biphenyls (PCBs) and/or other chemicals used during operations at these facilities may have adversely impacted soil, soil vapor and groundwater.

#### REC 2 – On-Site Closed-In-Place Underground Storage Tanks

Twelve 550-gallon diesel underground storage tanks (UST), two 550-gallon gasoline USTs, one 1,000-gallon motor oil UST, and one 1,000-gallon waste oil UST were closed-in-place between 1991 and 1992. Evidence of historical diesel fuel contamination was observed following the collection six soil samples around the tanks in 1991 (concentrations of TPH ranging from 69 to 246 ppm). Inadvertent releases from these tanks while they were active may have impacted soil, soil vapor, and groundwater. Based on the historic usage and the presumed age of the tanks (approximately 44 years), the closed-in-place USTs are a REC.

#### REC 3 – Potential Historic Petroleum Storage

An apparent fill port was identified in the sidewalk along the northwestern edge of the Site. There are no records of a petroleum bulk storage tank near the apparent fill port. Based on the potential presence of tanks and lack of any closure documentation, the fill port and potential petroleum tank(s) are a REC.

#### REC 4 – Soil Staining

Petroleum-like staining and odors were identified along the southwestern corner of the building during the site reconnaissance. A petroleum release may have impacted soil, soil vapor and groundwater and is considered a REC. According to the NYC Department of Finance Tax Map, an approximate 50-foot wide sliver of land (Block 2316, Lot 35) exists between the Site and the Harlem River; therefore, the observed soil staining may be located outside the Site property line.

#### REC 5 – Historical Use of Surrounding Properties

Historical use of properties surrounding the Site include commercial buildings with office space, lofts, auto repairs (1908 – present), parking garages (1951 – 1968), manufacturing facilities

(1891 – 1946), freight depots (1891 – 1947), a piano factory (1891), printing (1935 – 1947), and woodworking (1891). Additionally, an active New York State Department of Environmental Concern (NYSDEC) Brownfields Site was identified approximately 745 feet northeast (up-gradient) of the Site. Based on investigations conducted to date, the primary contaminants of concern in soil and groundwater are petroleum related compounds. No information was provided with respect to the off-site migration of contaminants; however, the Environmental Database Report (EDR) report indicates that the potential exists for off-site migration of site-related contaminants in soil vapor. Potential petroleum and solvent releases associated with the historical surrounding property uses may have adversely impacted soil, groundwater, and/or soil vapor at the Site and is, therefore, considered a REC.

Historic RECs (HRECs), Controlled RECs (CRECs) or de minimis conditions were not identified.

### **Non-ASTM Matters**

#### Asbestos, Lead, and Polychlorinated Biphenyls

A formal survey to identify asbestos containing materials (ACM), lead-based paint (LBP), and PCBs in building materials was not conducted as part of this Phase I ESA. Based on the age of the building, ACM, LBP, and PCB-containing materials are likely present.

#### Radon

According to the New York State Department of Health (NYSDOH), a total of 31 radon tests have been conducted in Bronx County with results indicating that 4% of living areas and 58% of basements have radon concentrations above 4 picocuries per liter (pCi/L). Based on this data, there is a potential for radon to accumulate in buildings; radon represents an environmental concern.



## **1.0 INTRODUCTION**

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) was retained by Lincoln Avenue Associates, LLC (the "User") to prepare a Phase I Environmental Site Assessment (ESA) for the property located at 101 Lincoln Avenue (Block 2316, Lot 1) in the Mott Haven section of the Bronx, New York ("Site"). This Phase I ESA was performed in support of the User's due diligence prior to acquiring the Site.

### **1.1 Purpose**

The purpose of this Phase I ESA is to accomplish the following:

(1) Identify Recognized Environmental Conditions (RECs) in connection with the Subject Property, as defined in The Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, which states: The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

(2) Satisfy the criteria of United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 312 Subpart C Standards and Practices §312.20 AAI Rule.

### **1.2 Scope of the ESA**

This Phase I ESA was conducted utilizing a standard of good commercial and customary practice that is consistent with American Society for Testing and Materials (ASTM) E1527-13. Any significant scope-of-work additions, deletions, or deviations to ASTM E1527-13 are noted in Section 8 of this report. In general, the scope of this assessment consisted of obtaining information from the User; reviewing reasonably ascertainable information and environmental data relating to the Site; reviewing maps and records maintained by federal, state, and local regulatory agencies; interviewing persons knowledgeable about the Site; and conducting a site inspection. The specific scope of this assessment included the following:

1. A Site Reconnaissance to characterize conditions and assess the Site's location with respect to adjoining and surrounding property uses and natural surface features. The reconnaissance included the surrounding roads and observations of surrounding properties from public rights-of-way to identify obvious potential environmental conditions on neighboring properties. The site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Site and then progressing to adjacent and surrounding properties. Photographs taken as part of the site reconnaissance are provided in Appendix A.
2. A review of ASTM Practice E 1527-13 User and Owner Questionnaires. Copies of these questionnaires are included in Appendix B.
3. A review of available previous environmental reports completed for the Site. Copies of the reports are included as Appendix C.
4. A review of environmental databases maintained by the USEPA, state, and local agencies within the approximate minimum search distance. The environmental database report was provided by EDR, and the report is included in Appendix D.
5. Freedom of Information Act (FOIA) requests were sent to federal, state, and local agencies. Copies of the FOIA requests and responses are included in Appendix E.
6. New York City Department of Buildings (NYCDOB) records, a Planning Commission Zoning Map, and New York City Department of Finance (NYCDOF) records were reviewed. Available Deed Records, NYCDOB records and the Zoning Map and Tax Map information are included in Appendices F, G, H, and I respectively.
7. A review of physical characteristics of the Site through a review of referenced sources for topographic, geologic, soils, and hydrologic data.
8. A review and interpretation of aerial photographs, Sanborn Fire Insurance Maps (Sanborn Maps), historical topographic maps, and city directories to identify previous activities on and in the vicinity of the Site. Copies are included in Appendices J, K, L, and M, respectively.
9. A review of an Environmental Lien search for the Site. A copy of the environmental lien search report is included in Appendix N.

10. A review of published radon occurrence maps to determine if the Site is located in an area with a propensity for elevated radon levels. A USEPA Radon Map is provided in Appendix O.

### **1.3 Assumptions, Limitations, and Exceptions**

This Phase I ESA was prepared for Lincoln Avenue Associates, LLC for the Site located at 101 Lincoln Avenue in the Mott Haven section of the Bronx, New York. The report is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Site addressed herein, or by any other third party without a written authorization from Langan.

Langan's scope of services, which is described in Section 1.2, was limited to that agreed to with the User and no other services beyond those explicitly stated are implied. The services performed and agreed upon for this effort comports to those prescribed in the ASTM Standard E1527-13. Intrusive sampling (i.e. soil borings and groundwater sampling) was not performed as part of this Phase I ESA.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Site. The purpose of this investigation was limited to determining if there is reason to suspect the possibility of RECs at the Site. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular site. Therefore, Langan cannot "insure" or "certify" that the Site is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary standard of care exercised by professionals performing similar services under similar circumstances within the same jurisdiction.

The conclusions, opinions, and recommendations provided in this report are based solely on the specific activities as required for the performance of ASTM E1527-13 and are intended exclusively for the purpose stated herein, at the specified Site, as it existed at the time of our site visit.

## 2.0 SITE DESCRIPTION

### 2.1 Location and Description

The Site (Block 2316, Lot 1) is comprised of an approximate 133,700-square-foot irregularly shaped lot and contains a parking lot and a one-story, L-shaped warehouse building with a connected two-story office building encompassing approximately 83,064 square feet. The building is situated along the north, northwest, and eastern portions of the site boundary. The Site is bordered to the northeast by Bruckner Boulevard, to the southeast by Lincoln Avenue, to the southwest by Block 2316, Lot 35 followed by the Harlem River, and to the northwest by the Third Avenue Bridge. Site reconnaissance photographs are presented in Appendix A.

Based on visual observations of the surrounding area made during the Site reconnaissance and a review of historical aerial photographs and maps, the Site is located in an area primarily characterized by mixed commercial, residential, and industrial use.

According to the United States Geological Survey (USGS) Central Park Quadrangle 7.5-minute Series Topographic Maps, the Site sits at an elevation of approximately 5 feet above mean sea level (msl). The topography in the immediate area of the Site is generally flat. The approximate depth to groundwater is about 5 feet below grade surface (bgs). Groundwater is expected to flow to the southwest towards the Harlem River, which is located west of the Site, across Block 2316, Lot 35. The following table summarizes adjoining and surrounding property usage:

Direction	Adjoining Properties	Surrounding Properties
Northeast	Bruckner Avenue followed by commercial buildings	Multiple-story commercial and industrial buildings
Southwest	Block 2316, Lot 35 followed by Harlem River and railroad tracks	
Southeast	Lincoln Avenue followed by Glass Works Building and MFM Contracting Corp.	
Northwest	Third Avenue Bridge	

### 2.2 Current Site Use and Improvements

The Site is improved with a one-story, L-shaped warehouse building with a connected two-story office building encompassing approximately 83,064 square feet. The Site is divided into two sections with Third Avenue Transit Inc. occupying the eastern portion of the Site and Oz

Moving & Storage occupying the western portion. Third Avenue Transit Inc. utilizes the Site for storage of equipment & materials, school bus repairs, and as office space. Oz Moving & Storage utilizes the Site for the storage of equipment, materials and vehicles, and vehicle repair. The building is connected to public water and sewers and is heated via natural gas burners. Improvements at the Site are summarized in the following table:

<b>SITE IMPROVEMENTS</b>	
<b>Size of the Site</b>	133,700 square feet
<b>Buildings/Spaces/Structures</b>	Improved with a one, and two-story building with a paved vehicle parking lot.
<b>Unimproved Areas</b>	None
<b>Surface Water</b>	Surface water is not located on the Site. The nearest surface water body is the Harlem River located west of the Site, across Block 2316, Lot 35.
<b>Potable Water Source</b>	New York City
<b>Sanitary and Storm Sewer Utilities</b>	New York City
<b>Electrical Utilities</b>	Consolidated Edison Company of New York, Inc.
<b>Construction Completion Date</b>	1966
<b>General Construction Type</b>	Brick and concrete masonry
<b>Heating System Type</b>	Natural gas boilers
<b>Emergency Power</b>	None

### **2.3 Title Records**

Langan researched ownership records through the New York City Department of Finance, Office of the City Register, Automated City Register Information System (ACRIS) website at <http://a836-acris.nyc.gov/CP/>. ACRIS listed Gerosa Incorporated as the current owner of the Site. There was no additional deed information provided; however, two leases; one for New York Telephone Company on February 27 1997, and one for Verizon New York Inc. on August 9, 2004, were provided.

Based on the reasons specified below regarding site conditions and the potential for spills or releases of petroleum, solvents, or other hazardous substances related to former use, historical usage of the Site by the New York Telephone Company and Verizon New York constitutes a REC.

### **3.0 USER PROVIDED INFORMATION**

#### **3.1 User Questionnaire**

Per ASTM E1527-13, a buyer and owner questionnaire was provided to inquire about specialized information related to the Site. The buyer questionnaire indicated no knowledge of environmental conditions at the Site. A copy of the completed buyer questionnaire is provided in Appendix B. A completed owner questionnaire was not provided to Langan by the date of the release of this report.

#### **3.2 Previous Environmental Reports**

The following reports were reviewed as part of this Phase I ESA (included in Appendix C).

Tank Environmental Profile Analysis for 14 550-Gallon Tanks – 101 Lincoln Avenue, Bronx, New York; Gaservice Maintenance Corporation (Gaservice), September 5, 1991

Langan was not provided with a complete version of the Tank Environmental Profile (TEP) Analysis report. The TEP Analysis was performed for twelve 550-gallon diesel and two 550-gallon gasoline USTs located in the eastern perimeter of the Site along Lincoln Avenue (see Figure 2). The findings of the report are summarized below:

- The tanks were observed to be in fairly good condition with respect to overall corrosion;
- The soil resistivity surrounding the tanks was relatively low, and the moisture content and soil microbe count was fairly high, both of which would lead to an increase in corrosion and therefore a shorter tank life;
- Diesel fuel contamination was observed in all six soil samples collected around the tanks (concentrations of TPH ranging from 69 to 246 ppm). Lab tests show that diesel fuel contamination has been present for some time, and does not seem to be a recent or recurring problem.

Tank Seal Affidavit – 101 Lincoln Avenue, Bronx, New York; Gaservice Maintenance Corporation (Gaservice), December 24, 1991

The tank seal affidavit states that Gaservice permanently abandoned twelve 550-gallon diesel and two 550-gallon gasoline tanks on December 9, 1991. The tanks were reportedly purged of all product, de-fumed, and filled with concrete slurry. The tank fills, vents, and all openings

were sealed with concrete and four dispensers were removed. The affidavit reports that a soil boring analysis was also performed; however, the results of the analyses were not provided.

Tank Closure Affidavit – 101 Lincoln Avenue, Bronx, New York; Gaservice, March 26, 1992

The tank closure affidavit states that Gaservice permanently closed-in-place one 1,000-gallon motor oil tank and one 1,000-gallon waste oil tank on March 18, 1992. As part of the closure activities, both tanks were partially uncovered, cut open, vacuum-cleaned, and filled with concrete slurry. In addition, the tank fills, vents, and all openings were sealed with concrete. One soil sample was reportedly collected following closure activities; however, analytical results were not provided. Based on a hand sketch provided with the affidavit, both closed-in-place tanks are located in the north-central area of the Site, outside of the existing building (see Figure 2).

Phase I ESA for Verizon and Atlantic Express Bus Garage – 101 Lincoln Avenue, Bronx, New York; CA Rich Consultants, Inc. (CA RICH), October 2007

Langan was only provided with the text of the above referenced report. At the time of the 2007 Phase I ESA, the Site was divided into two sections with Verizon occupying the eastern portion of the Site and Atlantic Express Bus occupying the western portion. The Phase I identified the following RECs:

- REC-1: Three floor drains were found throughout the Atlantic Express Bus garage. One drain was opened and found to contain a soft bottom with a depth of approximately six inches.
- REC-2: A hydraulic lift was identified in the Verizon warehouse. In addition, two possible hydraulic lift covers were identified in close proximity to the hydraulic lift.
- REC-3: An oil/water separator and associated well covers were identified in the Verizon warehouse.
- HREC-1: Twelve 550-gallon diesel tanks and two 550-gallon gasoline tanks were abandoned in place in 1991 and 1992.
- HREC-2: The Site had been occupied by the New Jersey Rail Road Bronx Freight from 1908 to 1951 and was used for coal storage between 1891 and 1908.



## 4.0 RECORDS REVIEW

### 4.1 Environmental Records

A copy of regulatory database information was provided by EDR and is included in Appendix D. The EDR report is a listing of sites identified on select federal and state standard source environmental databases within the approximate search radius specified by ASTM Standard Practice for E1527-13. Langan reviewed each environmental database on a record-by-record basis to determine if certain sites identified in the report are suspected to represent a potential impact to the Site. Langan also reviewed "Orphan Sites" listed within the report. Orphan Sites are those sites that could not be mapped due to inadequate address information. Orphan Sites that were identified by Langan within the ASTM search radii, either during the site reconnaissance or by cross-referencing to mapped listings, are addressed in the discussion below. All distances to adjacent properties are measured from the perimeter of the Site.

The following table lists the number of sites by database within the prescribed search radius appearing in the EDR Report.

<b>Database Record Summary</b>			
<b>Database Reviewed (Date of government version)</b>	<b>Minimum Search Area</b>	<b>Site listed</b>	<b>Number of Sites Within Minimum Search Area</b>
<b>USEPA DATABASES</b>			
National Priorities List (NPL) (10/25/2013)	1 Mile Radius	No	0
Delisted NPL (10/25/2013)	1/2 Mile Radius	No	0
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and CERCLIS No Further Remediation Action Planned (NFRAP) (10/25/2013)	1/2 Mile Radius	No	0
Resource Conservation and Recovery Act (RCRA) Corrective Reports (CORRACTS) (3/11/2014)	1 Mile Radius	No	0
RCRA Treatment, Storage, and Disposal Facilities (TSDf) (3/11/2014)	1/2 Mile Radius	No	0
RCRA Generators (3/11/2014)	Site and Adjoining	Yes	1
Facility Index System/Facility Registry System (FINDS) Database (11/28/2013)	Site	Yes	1
Environmental Response Notification System (ERNS) (9/30/2013)	Site	No	0

<b>Database Record Summary</b>			
<b>Database Reviewed (Date of government version)</b>	<b>Minimum Search Area</b>	<b>Site listed</b>	<b>Number of Sites Within Minimum Search Area</b>
Engineering Controls (EC) Sites Lists (12/17/2013)	Site	No	0
Institutional Controls (IC) Sites Lists (12/17/2013)	Site	No	0
<b>NYSDEC DATABASES</b>			
Hazardous Waste Disposal Sites (SHWS) and Delisted SHWS (2/17/2014)	1 Mile Radius	No	3
Hazardous Substance Waste Disposal Site Inventory (HSWDS) (1/1/2003)	1/2 Mile Radius	No	0
Solid Waste or Landfill Facilities (SWF/LF) (12/12/2013)	1/2 Mile Radius	No	4
Leaking Tanks (LTANKS) (4/05/2013)	1/2 Mile Radius	No	48
SPILLS Information Database (NY SPILLS) (2/17/2014)	1/8 Mile Radius	Yes	34
EC Sites Lists (2/17/2014)	Site	No	0
IC Sites Lists (2/17/2014)	Site	No	0
Voluntary Cleanup Program (VCP) (2/17/2014)	1/2 Mile Radius	No	0
Brownfields (2/17/2014)	1/2 Mile Radius	No	3
Petroleum Bulk Storage Facilities (PBS) UST and Aboveground Storage Tanks (AST) Databases (12/30/2013)	Site and Adjoining	Yes	1
Chemical Bulk Storage (CBS) UST and AST Databases (12/30/2013)	Site and Adjoining	No	0
Major Oil Storage Facilities (MOSF) UST and AST Databases (12/30/2013)	Site and Adjoining	No	0
Registered and Historical Drycleaners (DRYCLEANERS) (1/21/2014)	1/4 Mile Radius (N/A)	No	0
NY E Designation (12/10/2014)	1/8 Mile Radius	Yes	7
<b>EDR (PROPRIETARY) DATABASES</b>			
EDR Former Manufactured Gas Plant (MGP) Sites (N/A)	1 Mile Radius (N/A)	No	1
EDR US Hist Auto Stat (N/A)	1/4 Mile Radius (N/A)	No	20
EDR US Hist Cleaners (N/A)	1/4 Mile Radius (N/A)	No	1

N/A Not Applicable; databases with a "Not Applicable" Minimum Search Radius are databases reviewed as part of the Phase I ESA but not required as per ASTM E1527-05.

A description of the reviewed databases is provided in the EDR Report (Appendix D). A summary of Site database listings and other sites identified within the prescribed search area is presented below:

#### **4.1.1 Federal Agency Database Findings**

The Site and/or sites within their respective minimum search distances as specified by ASTM E1527-13, were not listed in the following federal agency databases: NPL, delisted NPL, CERCLIS and CERCLIS NFRAP, CORRACTS, RCRA TSD, ERNS, EC Sites List, and IC Sites List.

The following summary describes the sites that were identified within the designated search radii:

##### **RCRA Generators**

The Site was listed in the RCRA-NonGen database under the name Felix Industries due to that site's status as a SQG in 1998. The RCRA-SQG listing indicates that more than 100 and less than 1,000 kg of hazardous waste is generated during any calendar year month and accumulates less than 6,000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1,000 kg of hazardous waste at any time. Felix Industries formerly occupied the property located adjacent and to the east of the Site (across Lincoln Avenue); therefore, the RCRA listing may have been inaccurately mapped. Based on nature of the listing, the identified RCRA site is not considered a REC.

##### **Facility Index System/Facility Registry System (FINDS)**

The Site was listed in the FINDS database. The FINDS listing is related to US EPA TRIS [Environmental Protection Agency - Toxic Release Inventory System], which identifies facilities that release toxic chemicals to the air, water and/or land or that are transported off-site in reportable quantities. There are no reported violations for this listing. Based on nature of the listing, the FINDS listing is not considered a REC.

#### **4.1.2 State Agency Database Findings**

The Site and surrounding properties within the respective minimum search distances as specified by ASTM E1527-05 were not listed in the following state agency databases: HSWDS, EC, IC, VCP, CBS, MOSF, and DRYCLEANERS.

## **SHWS**

The SHWS database maintains information regarding the investigation and cleanup of suspected hazardous waste sites. The Site was not identified in the SHWS database; however, one SHWS sites were identified within 1/8-mile of the Site. Based on distance from the Site and nature of the listing, the identified SHWS site is not considered a REC.

## **SWF/LF Database**

The SWF/LF database is a comprehensive listing of State permitted/recorded solid waste facilities. The Site was not listed in the SWF/LF database; however, four SWF/LF listings were identified within ½-mile of the Site. Two of the four listings (Waste Management of NY (WMNY) LLC Harlem River Yard and Petro Recycling LLC) are located adjacent and to the east of the Site across Lincoln Avenue. WMNY LLC Harlem River Yard (located at 98 Lincoln Avenue) is listed as an active transfer station of municipal solid waste and construction & demolition debris. Petro Recycling LLC (located at 290 East 132 Street) is listed as an active processing center for soil, concrete, rock, gravel, stone, and sand. The two remaining SWF/LF sites are located more than 1,000 feet from the Site. Based on the nature of the listing, the four identified SWF/LF sites are not considered RECs.

## **Leaking Underground Storage Tanks Database**

The LTANKS database contains an inventory of reported leaking storage tank incidents, including leaking USTs and ASTs. The Site was not listed in the database; however, 48 LTANK incidents were identified within a 1/2-mile radius of the Site. The listed incidents have been primarily caused by tank test failures, tank failures, and tank overfills. Forty-two of the 48 LTANK incidents have been granted closed status by the NYSDEC. Based on the nature of the six open listings and their distance from Site (more than 1,300 feet and/or located across the Harlem River), the listings are not considered RECs.

## **Spills Database**

The NY Spills database is an inventory of sites where spills have been identified and reported to the NYSDEC. The Site is listed in this database due to a reported puddle of raw sewage that was observed along Lincoln Avenue adjacent to the Site on August 3, 2003. No spill response was required by NYSDEC and the spill was closed on August 4, 2003. The EDR report identified 34 spill cases within 1/8 mile of the Site, of which 33 incidents have been granted closed status by the NYSDEC. Nineteen of the 33 closed spill incidents are located within 250 feet from the Site. Although it is unlikely that the Site's groundwater has been adversely impacted from a

specific, single source, it is possible that these sources could have jointly contributed to the degradation to area groundwater quality. The record for the open spill is described below:

**Site Name:** Pole 18025

**Site Address:** East 132<sup>nd</sup> Street & Lincoln Avenue

**Location:** East adjacent (up-gradient) of the Site.

**Status:** Open

**Description:** Spill No. 1210172 was reported on November 12, 2012 due to a 2-gallon spill of dielectric fluid caused by a storm event. No further information was provided in the EDR report. Based on the quantity of the spill, this listing is not considered a REC.

### **Brownfields Database**

The Brownfields database is a listing of State and tribal Brownfields sites registered with the NYSDEC. The minimum search radius for Brownfields facilities includes the Site and sites within one half-mile of the Site. The Site was not listed in the database; however, three sites were identified within the search radius. Based on the nature of the listings and their distance from Site (more than 1,170 feet), two of the three listings are not considered RECs. The record for the remaining Brownfields listing is described below.

**Site Name:** 2477 Third Avenue Property

**Site Address:** 2477 Third Avenue

**Location:** 745 feet northeast (up-gradient) of the Site.

**Classification:** Active

**Description:** Based on investigations conducted to date, the primary contaminants of concern in soil and groundwater are petroleum related compounds. No information was provided with respect to the off-site migration of contaminants; however, the EDR report indicates that the potential exists for off-site migration of site-related contaminants in soil vapor. This Brownfield site may have adversely impacted groundwater, and/or soil vapor at the Site; therefore, constitute a REC.

### **Petroleum Bulk Storage Facilities UST and AST Databases**

The PBS database is a listing of USTs and ASTs registered with the NYSDEC. The minimum search radius for PBS facilities includes the Site and adjoining properties. The Site was listed in the PBS database for twelve closed-in-place 550-gallon diesel USTs, two 550-gallon closed-in-place gasoline USTs, and one closed and removed 275-gallon AST (unspecified contents). The adjoining property to the south (98 Lincoln Avenue) is listed in the PBS database for five active ASTs; including, two 275-gallon waste oil tanks, two 330-gallon hydraulic oil tanks, and one 180-

gallon diesel tanks. Potential leaks or spills of petroleum may have adversely impacted soil, groundwater, and/or soil vapor at the Site; therefore, the former onsite storage of petroleum constitutes a REC.

### **NY E Designation Sites**

The Site has an "E" designation for air, noise, and hazardous materials as a result of the Port Morris/Bruckner Boulevard Rezoning (CEQR # 05DCP005X). In addition, seven properties within the 1/8 mile search radius were listed in the database. The "E" designation itself is not considered a REC; however, any development of the properties will be subject to environmental review by the New York City Office of Environmental Remediation (NYC OER) and sub-surface investigation will be required and approved by the NYC OER before building permits are issued and a remedial action work plan must be approved and implemented, to the satisfaction of the NYC OER, prior to obtaining a certificate of occupancy..

#### **4.1.3 Other Database Findings**

The MGP Sites database is a proprietary database that includes records of manufactured coal gas plants compiled by EDR. The Site was not listed in the MGP database. One MGP site was identified within a one-mile radius of the Site; however, the identified site is located more than 4,500 feet cross-gradient from the Site and is not considered a REC.

### **Historical Auto Stations**

The Historical Auto Stations database is a proprietary database that includes records of historical auto stations compiled by EDR. The Site was not listed in the historical auto stations database. Twenty historical auto stations sites were identified within the minimum search criteria of 1/4 mile of the Site, three of which were identified within 300 feet of the Site. Potential petroleum and/or solvent releases associated with the three Historical Auto Stations listings (listed below and shown on Figure 2) may have adversely impacted soil, groundwater, and/or soil vapor at the Site and are considered a REC:

- J & Santana Auto Repair (1999-2003, 2005, 2009-2012) – 131 Lincoln Avenue;
- New Superior Car Service (2011) – 133 Lincoln Avenue; and
- SY Complete Auto Repair Corp (2010-2012) – 258 East 134<sup>th</sup> Street.

## Historical Cleaners

The Historical Cleaners database is a proprietary database that includes records of historical cleaners compiled by EDR. The Site was not listed in the historical cleaners database. One cleaner was identified within the minimum search criteria of ¼ mile from the Site. Based on the nature of the listing (no reported violations) and its distance from the Site (879 feet), the presence of the historical cleaner is not considered a REC.

### 4.1.4 Local Regulatory Agency Findings

#### FOIA Requests

FOIA requests were submitted to the following federal, state, and local agencies via written correspondence:

- New York City Department of Environmental Protection (NYCDEP);
- New York City Department of Health (NYCDOH);
- New York City Fire Department (FDNY);
- New York State Department of Health (NYSDOH);
- New York State Department of Environmental Conservation (NYSDEC); and
- USEPA, Region 2.

FOIA requests were sent on April 14, 2014. The following table summarizes acknowledgement of receipts and responses.

Agency	Acknowledgement of Receipt Date	Response
NYCDOH	Not received	As of the date of this report, responses have not been received.
NYCDEP	Not received	As of the date of this report, responses have not been received.
FDNY	Not received	As of the date of this report, responses have not been received.
NYSDOH	Not received	As of the date of this report, responses have not been received.
NYSDEC	Not received	As of the date of this report, responses have not been received.
USEPA Region 2	April 14, 2014	As of the date of this report, responses have not been received.

Should any future responses alter the conclusions provided within this report, we will issue modified conclusions as an addendum to this report. Copies of the FOIA requests are included in Appendix E.

### **New York City Department of Buildings (NYCDOB)**

Langan conducted a records search through the NYCDOB online query system on April 16, 2014. The Site has a Department of Finance Building classification of G1-Garage/Gas Station. According to NYCDOB, a full stop work order was issued for the Site on May 13, 2005 for category code, "Construction – Contrary/Beyond Approved Plans/Permits." Additional actions reported for the Site included building notices, electric sign applications, and four dismissed DOB violations. Certificate of Occupancy documents were not available for the Site. A copy of the NYCDOB findings is provided in Appendix G.

### **Zoning Department**

According to the New York City Planning Commission Zoning Map 6a, the Site is located in a M1-3/R8 mixed-use district, typically characterized by moderate commercial and residential use. The review of the zoning map did not reveal RECs associated with the Site; however, the Site is listed with a restrictive "e" designation. A copy of the zoning map is provided in Appendix H.

## **4.2 Physical Setting Sources**

### **4.2.1 Topography**

According to the United States Geological Survey (USGS) Central Park Quadrangle 7.5-minute Series Topographic Maps, the Site sits at an elevation of approximately 5 feet above mean sea level (msl). The topography in the immediate area of the Site is generally flat. The approximate depth to groundwater is about 5 feet below grade surface (bgs). Groundwater at the Site is expected to flow to the southwest towards the Harlem River, which is located adjacent and to the west of the Site.

### **4.2.2 Geology**

The Site is located in the Bronx, which is located near the southern end of the Manhattan Prong. The Manhattan Prong is one of two southwestward extensions of the New England Upland physiographic province of the Northern Appalachians. The underlying bedrock in this area generally consists of white calcite-dolomite marble (Inwood Marble) interlayered with



Fordham Gneiss. Bedrock outcrops were not observed at the Site. Based on USGS reports, bedrock beneath the site is presumed to be at a depth of approximately 50 feet bgs.

### 4.2.3 Hydrology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, and coverage by impervious surfaces. Other factors influencing groundwater include depth to bedrock, the presence of artificial fill, and variability in local geology and groundwater sources or sinks.

The approximate depth to groundwater is estimated at 5 feet bgs. Groundwater at the Site is expected to flow to the southwest towards the Harlem River, which is located west adjacent to the Site. Potable water is provided to the Site by the City of New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

### 4.3 Historical Use Information

Langan reviewed available historic resources (including aerial photographs, Sanborn and topographic maps, and city directories) dated 1891 to 2011. Findings of the reviews are presented below.

#### 4.3.1 Aerial Photographs

Langan reviewed aerial photographs of the Site and surrounding areas for the years 1924, 1941, 1944, 1954, 1966, 1975, 1984, 1994, 1995, 2006, 2009, and 2011. Copies of aerial photographs are included in Appendix J. A summary of the aerial photograph review is presented in the following table.

AERIAL PHOTOGRAPH SUMMARY	
YEAR	COMMENTS
1924	The Site appears with a round structure (railroad turntable) occupying the western half of the Site. Freight cars are observed to be occupying most of the remaining areas of the Site. The areas surrounding the Site are densely developed with a mix of commercial and residential structures. A bridge is located immediately northwest of the Site.
1941, 1944, 1954	The Site and surrounding area appears generally unchanged from the 1924 photograph.

AERIAL PHOTOGRAPH SUMMARY	
YEAR	COMMENTS
1966	The Site does not contain any structures. The areas surrounding the Site appear similar to 1954.
1975	The Site appears with a structure that resembles the size and configuration of the present-day structure. The areas surrounding the Site appear similar to 1966.
1984, 1994, 1995, 2006, 2009, 2011	The Site and surrounding area appears generally unchanged from the 1975 photograph.

Langan’s aerial photograph review revealed that the Site was occupied by a large railroad turntable from at least 1924 through 1954. In the 1966 aerial photograph, the Site does not contain any structures and then in 1975, the Site contains a structure that resembles the size and configuration of the present-day structure. The Site and surrounding areas have remained relatively unchanged since 1975. The Site’s former use as a railroad terminal is considered a REC.

#### 4.3.2 Sanborn Fire Insurance Maps

Langan reviewed Sanborn Maps for the years 1981, 1908, 1935, 1944, 1946, 1947, 1951, 1968, 1977, 1978, 1980, 1981, 1986, 1989, 1991-1996, 1998, and 2001-2007. Sanborn Maps constitute a database of prior site uses of real property for many cities and towns in the United States. Copies of the maps are provided in Appendix K. A summary of the Sanborn Maps is presented on the following table.

SANBORN MAP SUMMARY	
YEAR	COMMENTS
1981	<p><b>Site:</b> The Site is identified as containing building materials (Bell &amp; Son), sand, North and East River Steamboat Co., coal yard, livery stable, and Ice Co’s Yard. These businesses line the perimeter of the Site along Lincoln Avenue and Southern (present-day Bruckner Boulevard).</p> <p><b>Surrounding Area:</b>            To the north, across Southern, is a cabinet factory, moulding mill, railway car and stables, stone yard, and Morrisania and Fordham. To the southeast, across Lincoln Avenue, is the New York, New Haven, and Hartford Rail Road Co, Freight Depot, and a manufacturing establishment with stores below. To the northeast is a piano factory and New York woodworking. The Harlem Bridge is located northwest of Site and the Harlem River lines the southwestern Site boundary.</p>
1908	<p><b>Site:</b> The Site is identified as Central Rail Road of New Jersey, Bronx Freight Terminal. The railroad turntable remains at the Site and a float is now identified near the southwestern portion of the Site along the Harlem River.</p> <p><b>Surrounding Area:</b> To the north, across East 133<sup>rd</sup> Street (previously Southern), is the Union Railway Co. store yard, auto building, a hotel, contractor office, and a mixed use store/dwelling building. The Third Avenue Bridge is located to the northwest.</p>

<b>SANBORN MAP SUMMARY</b>	
<b>YEAR</b>	<b>COMMENTS</b>
1935	<p><b>Site:</b> The Site appears similar to 1908; however, a coal shed and locomotive house are depicted.</p> <p><b>Surrounding Area:</b> The areas surrounding the Site are primarily commercial businesses. Most notable of these are the 3<sup>rd</sup> Avenue Rail Road System Freight Yard, which contains a 275-gallon gasoline tank, and an auto house containing a 275-gallon buried gasoline tank. These tanks are located north/northeast of the Site, across East 133<sup>rd</sup> Street (present-day Bruckner Boulevard). Following these properties to the northeast exists a printing room and a private garage with a gas tank.</p>
1944	The Site and surrounding area appear similar to 1935 and have undergone relatively little change; however, the East 133 <sup>rd</sup> Street is now identified as Bruckner Boulevard.
1946	The Site and surrounding area appear similar to 1944; however, the gasoline tank identified at the former auto house (now identified as a private garage) is no longer depicted.
1947	<p><b>Site:</b> The Site appears similar to 1946; however, the coal shed is no longer depicted.</p> <p><b>Surrounding Area:</b> The areas surrounding the Site also appear similar; however, the gasoline tank identified at the 3<sup>rd</sup> Avenue Rail Road Freight Yard is not depicted and in its place is oil storage.</p>
1951	<p><b>Site:</b> The Site remains unchanged from the 1947 map.</p> <p><b>Surrounding Area:</b> The areas surrounding the Site appear similar to 1947; however, the private garage located to the northeast of the Site appears to have extended onto the property formerly identified as the 3<sup>rd</sup> Avenue Rail Road Freight Yard, and a gasoline tank is now depicted along the southern edge of the property.</p>
1968	<p><b>Site:</b> The Site is identified as Gerosa Haulage Corp and resembles the size and configuration of the present-day building. The Site contains a storage yard, crane repair, paint shop, crane paint shop, blacksmith shop, garage repair shop, and an office.</p> <p><b>Surrounding Area:</b> The areas surrounding the Site appear similar to 1951; however, an auto repair shop is identified northeast of the Site on East 134<sup>th</sup> Street and Lincoln Avenue.</p>
1977	The Site and surrounding area appears similar to 1968 and have undergone relatively little change; however, a small warehouse is shown in the southeast portion of the Site. In addition, the private garage located north of the Site, across Bruckner Boulevard, now longer shows a gasoline tank.
1978, 1980, 1981, 1984	The Site and surrounding area appears similar to 1977 and have undergone relatively little change; however the 1984 map shows a heavy equipment storage yard located south east of the Site, across Lincoln Avenue.
1986, 1989	The Site and surrounding area appear similar to 1984 and have undergone relatively little change; however, the auto repair shop located at East 134 <sup>th</sup> and Lincoln Avenue is no longer depicted on the 1989 map.

<b>SANBORN MAP SUMMARY</b>	
<b>YEAR</b>	<b>COMMENTS</b>
1991	The Site and surrounding area appear similar to 1989 and have undergone relatively little change; however, an auto repair shop is now depicted near the intersection of East 134 <sup>th</sup> and Lincoln Avenue.
1992, 1993, 1994, 1995	The Site and surrounding area appear similar to 1991 and have undergone relatively little change; however, the private garage located north of the Site, across Bruckner Boulevard, is now depicted as an auto repair shop on the 1995 map.
1996, 1998, 2001, - 2007)	The Site and surrounding area appear similar to 1995 and have undergone relatively little change.

Langan’s Sanborn Map review revealed that the Site was developed sometime before 1968. From 1908 to 1951. The Site is occupied by the New Jersey Central Rail Bronx Freight Terminal. From 1968 to 2007, the Site is identified as Gerosa Haulage Corporation (with uses including crane repair, paint shop, blacksmith shop, and garage repair shop) and contains a building that resembles the size and configuration of the present-day building. Historical usage of the Site is a REC. Inadvertent releases of solvents, petroleum products, metals, polychlorinated biphenyls (PCB) and/or other chemicals used during former and current operations may have adversely impacted soil, groundwater, building components and/or soil vapor at the Site.

Properties surrounding the Site have historically been residential dwellings and commercial buildings with auto repairs, office space, lofts, parking garages, manufacturing facilities, freight depots, a piano factory, printing, and woodworking. RECs associated with historical uses of adjoining and surrounding properties are identified on Figure 2 and include the following:

- An auto building (1908 - 1947) located at 2414 Third Avenue;
- An auto house (1935 – 1944) located at 3 Bruckner Boulevard;
- A railroad freight yard (1935 – 1944) located at 3-5 Bruckner Boulevard;
- A private garage (1935 – 1944) and a printing facility (1935 – 1947) located at 3-5 Bruckner Boulevard;
- A cabinet factory (1891) located at 121 Lincoln Avenue;
- An auto repair shop (1968 – 1989) located at 133-135 Lincoln Avenue;
- An auto repair shop (1968 – present) located at 129-131 Lincoln Avenue;

- A manufacturing establishment (1981), coal body service (1949), and an iron works shop (1940 – 1949) located at 82-98 Lincoln Avenue;
- A manufacturing facility (1908-1946) located at 18-22 Bruckner Avenue; and
- A freight depot (1891-1946) and a heavy equipment storage yard (1984-2007) located at 290 East 132<sup>nd</sup> Street.

#### **4.3.3 Historical USGS Topographic Quadrangles**

Langan reviewed historical USGS Topographic Quadrangles obtained from EDR for information regarding past uses of the Site. Quadrangle maps were available for the Site for the years 1897, 1947, 1956, 1966, 1979, and 1995. Based on a review of the historic topographic maps, the Site and surrounding areas were developed with an urban grid by 1897. Review of the historical topographic quadrangles did not reveal RECs associated with the Site. Copies of the topographic maps are provided in Appendix L.

#### **4.3.4 City Directories**

The City Directory Abstract, obtained from EDR, is a review of available business directories, including city, cross-reference, and telephone directories, at approximately five-year intervals for the years spanning 1927 through 2013. Copies of the City Directory Abstracts are provided in Appendix M. The address is not listed for the Site from 1927 to 1961. In 1965, the Site is listed with two names, McKinney Carew L and Masia Philip. From 1971 to 2005, the Site is listed under the Gerosa name. The areas surrounding the Site appears to be used for residential and commercial purposes. Most notably, the Harlem Coal Body Service Company (1949) and Peerless Iron Works (1940 and 1949) were located at 88 Lincoln Avenue (adjacent and to the east of the Site across Lincoln Avenue). Review of information available in the City Directory revealed RECs associated with the surrounding property use.

#### **4.3.5 Environmental Lien Search**

Langan contracted EDR to conduct an Environmental Lien search for the Site. The results of the search, which included a compilation of available data and verification of the findings with the appropriate regulatory authorities, revealed that there are no Environmental Liens or other Activity and Use Limitations (AUL) associated with the Site. A copy of the Environmental Lien Search is provided in Appendix N.

## **5.0 SITE RECONNAISSANCE**

### **5.1 Methodology and Limiting Conditions**

The Site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Site and then progressing to the adjacent and surrounding properties. The assessment of the adjacent and surrounding properties was limited to identifying, if possible, any indications of past or current use that may involve the use, storage, disposal, or generation of hazardous substances or petroleum products; noting the general type of current use; the general topography of the surrounding area; and providing a general description of adjoining or adjacent structures.

#### **5.1.1 Date and Time of Inspections**

The site reconnaissance was completed on April 17, 2014 at 10:00 AM by Nicole Rice, PE, of Langan. Mrs. Rice was accompanied by John Reinersten on behalf of the owner during the Site walk. The weather at the time of the inspection was sunny and approximately 45° F.

#### **5.1.2 General Site Setting and Reconnaissance Observations**

The Site is improved with a one-story, L-shaped warehouse building with a connected two-story office building. The building is constructed of brick and mortar and the parking lot is a mix of concrete and asphalt. The Site is divided by a chain-link fence that separates Oz Moving & Storage on the west and Third Avenue Transit Inc. on the east. Driveways along Lincoln Avenue provide access to both businesses. The building is connected to public water and sewers and is heated via natural gas burners.

The Oz Moving & Storage property contains three two-story garage bays and four raised warehouse garage bays. The parking lot contains several parked trucks and vehicles throughout. An apparent fill port was identified in the sidewalk along the northwestern edge of the Site. Based on the potential presence of historic tanks and lack of any documentation of tank closure, the fill port and potential petroleum tank(s) are a REC.

The interior of the Oz Moving & Storage portion of the Site is constructed of concrete floors, painted concrete block walls, and a raised metal ceiling. Oz Moving & Storage utilizes the building for the storage of equipment, materials, and vehicles, and vehicle repair. As such, there are typical vehicle maintenance and repair materials and equipment used and stored throughout. Equipment included several portable electric vehicle jacks, three air compressors,

two pressure washers, and welding equipment. One 275-gallon hydraulic oil AST was identified in the repair area in the central portion of the building (see Figure 2). No signs of any leaks or spills were noted at the time of the site reconnaissance. Discoloration and staining was observed in each of the garage bays; fresh staining was covered with granular oil absorbent material. The observed discoloration and staining of the floors is considered a REC.

The Third Avenue Transit Inc. property contains three raised warehouse garage bays and a two-story office building on the northeastern portion of the Site. The parking lot contains approximately 20 parked school buses, two storm drains, a security booth and miscellaneous equipment. The interior of the Third Ave Transit Inc. property is constructed of concrete floors, painted and unpainted concrete blocks, and a raised metal ceiling. Vinyl floor tiles were identified on the floor of the second floor mechanics lunch room and first floor dispatch office. Third Avenue Transit Inc. utilizes the building for the storage of equipment, materials, and vehicles, and school bus repair. As such, there are typical vehicle maintenance and repair materials and equipment used and stored throughout. Equipment included several portables electric vehicle jacks, a forklift, battery chargers, and an air compressor. A metal grated channel for the collection of runoff water is located in the middle of the warehouse and runs the length of the parking area in the warehouse. The grated runoff channel is connected to an underground oil/water separator tank located near the northwestern portion of the building. Two manhole covers labeled as "monitoring well" were located within approximately 5 feet of the oil/water separator. Inside the manhole covers were two pipes likely associated with leak detection. An active hydraulic lift was located along the north wall of the building. In addition, two orange covers were identified west of the hydraulic lift, which may be non-activated hydraulic lifts. A boiler room is located near the southeast portion of the building and contains two hot water tanks, three floor drains, and a sump pit. One 275-gallon hydraulic oil AST and one 275-gallon diesel exhaust fluid AST were identified within the building (see Figure 2). No signs of any leaks or spills were noted at the time of the site reconnaissance. Discoloration and staining was observed throughout the building interior; fresh staining was covered with granular oil absorbent material at the time of the inspection.

The interior of the office space consists of painted walls, vinyl floor tiles, carpeting, and drop in ceiling tiles. Typical office equipment, materials, and supplies were identified throughout the office.

### **Pits, Ponds, Lagoons**

Pits, ponds, and/or lagoons were not observed.

## **Pools of Liquid**

With the exception of several small puddles of accumulated rainwater, no pools of liquid were observed.

## **Storm Drains, Wells, and Cisterns**

The parking lot for the Oz Moving & Storage property contained one storm drain near the Harlem River along the western Site boundary and the parking lot for the Third Avenue Transit Inc. property contains two storm drains. No evidence of water wells or cisterns was observed. Four floor drains were identified in the Oz Moving & Storage garage bays and two floor drains, in addition to the metal grated runoff channel, were identified in the northern portion of the Third Avenue Transit Inc. office/storage area.

## **Polychlorinated Biphenyl (PCB) Transformers and Suspect Equipment**

Except for fluorescent lights, transformers or suspect PCB-containing equipment were not observed. Fluorescent light ballasts manufactured prior to 1979 may contain PCBs.

## **Storage Containers and Drums**

Within the Oz Moving & Storage property, the following storage containers and drums were identified:

- Three 55-gallon drums of windshield washer fluid;
- Two 55-gallon drums of motor oil;
- One 5-gallon container of hydraulic oil;
- Three open buckets of mixed oil;
- Three 25-gallon containers of gasoline;
- One 5-gallon bucket of lacquer thinner;
- Six 5-gallon buckets of brake fluid
- Three 5-gallon buckets of lubricant;
- Two 55-gallon drums of diesel exhaust fluid;
- Six 55-gallon drums of transmission fluid;
- Two empty 55-gallon drums, three 55-gallon drums of windshield washer fluid, one 55-gallon drum of apparent waste oil (located outside, southwest of the building);



- Numerous small quantities of petroleum and solvent based products.

Within the Third Avenue Transit Inc. property, the following storage containers and drums were identified:

- Seventeen 55-gallon drums of windshield wiper fluid;
- Three 55-gallon drums of antifreeze;
- Three 55-gallon drums of motor oil;
- Two 10-gallon containers of gasoline;
- Two 25-gallon containers of gasoline; and
- One 55-gallon drum of speedy-dry.

### **Air Emissions or Wastewater Discharges**

Evidence of air discharges was not observed. Wastewater discharges through the oil/water separator to the public sewer are presumed.

### **Sumps**

One sump located adjacent to the boiler in the building was identified.

### **USTs or ASTs**

Two approximately 275-gallon hydraulic oil ASTs and one 275-gallon diesel exhaust fluid AST were identified. These tanks are not listed on the NYSDEC PBS registration for the Site. In addition, an apparent former fill port was identified in the vicinity of the former USTs previously closed-in-place along the eastern edge of the property. An apparent fill port was also identified in the sidewalk along the northwestern edge of the Site. Potential leaks or spills of thr USTs may have adversely impacted soil, groundwater, and/or soil vapor.

### **Monitoring Wells or Remedial Activities**

With the exception of the two monitoring wells used for leak detection for the on-site oil/water separator, monitoring wells were not observed at the Site.

### **Stained or Discolored Soils**

With the exception of a small area located along the southwestern edge of the Oz Moving & Storage property, the Site is covered entirely by an impermeable surface. Soil staining and apparent petroleum odors identified in this area constitutes a REC. According to the NYC Department of Finance Tax Map, an approximate 50-foot wide sliver of land (Block 2316, Lot 35) exists between the Site and the Harlem River; therefore, the observed soil staining may be located outside the Site property line.

### **Leachate or Seeps**

Leachate or seeps were not observed.

### **Adjoining and Surrounding Property Uses**

The adjoining properties include: railroad tracks and the Harlem River to the south; Lincoln Avenue followed by a three-story commercial buildings and an active processing center for soil, concrete, rock, gravel, stone, and sand to the east; Bruckner avenue following by one- to three-story mixed used buildings to the north; and the Third Avenue Bridge and the Harlem River to the west.

### **Site Reconnaissance Conclusions**

Based on observations during the site reconnaissance, the following RECs were identified:

- An apparent fill port located in the sidewalk along the northwestern edge of the Site.
- Soil staining and apparent petroleum odors along the southwestern edge of the Site.
- Vehicle repair equipment, extensive product storage, discolored floors, and supplies and work areas are apparent throughout the building.

## **6.0 INTERVIEWS**

### **6.1 Site Owner**

Mrs. Rice interviewed Mr. Reinersten, representing the site owner, during the Site reconnaissance on April 18, 2014. Mr. Reinersten was knowledgeable of the former uses of the Site and historical UST closure activities and was unaware of any spills or releases that may have occurred at the Site, or any other environmental concerns at the Site.

### **6.2 Site Occupants**

Site Occupants were not interviewed as part of this Phase I ESA

### **6.3 Owners/Tenants of Adjacent Properties**

Owners/tenants of adjacent properties were not interviewed as part of this Phase I ESA.

## **7.0 ADDITIONAL SERVICES**

### **7.1 Radon**

Radon is a colorless, odorless radioactive gas that results from the natural breakdown of uranium minerals in soil, rock, and water, which subsequently enters the atmosphere. It can concentrate in buildings, entering through cracks and other penetrations of a building foundation. Some areas are more likely to have elevated concentrations of radon than others, reflecting subsurface lithologic conditions.

The USEPA's "Map of Radon Zones for New York State" indicates that Bronx is located in a Zone 3 radon risk area, which is associated with a low radon risk potential. Zone 3 risk areas are those where the predicted average indoor screening level is less than 2.0 picocuries per liter (pCi/L). According to the New York State Department of Health (NYSDOH), a total of 31 radon tests have been conducted in Bronx County with results indicating that 4% of living areas and 58% of basements have radon concentrations above 4 pCi/L. Based on this data, there is a potential for radon to accumulate in buildings; radon represents an environmental concern. A USEPA radon map is provided as Appendix O.

### **7.2 Asbestos-Containing Material, Lead-Based Paint, and PCBs**

A formal survey to identify asbestos containing materials (ACM), lead-based paint (LBP), and PCBs in building materials was not conducted as part of this Phase I ESA. Based on the age of the building, ACM, LBP, and PCB-containing materials are likely present in the Site building materials. Chipping paint was observed on some of the walls, and suspect PCB-containing materials (i.e., window caulking and fluorescent light ballasts) were observed throughout the building.

## **8.0 DEVIATIONS AND DATA GAPS**

### **8.1 Deviations**

Langan has performed a Phase I ESA of the Site utilizing a standard of good commercial and customary practice that is consistent with the ASTM E1527-13 and the 40 Code of Federal Regulations (CFR) Part 312 Standards and Practices for AAI. Significant deviations were not made to the above referenced standards.

### **8.2 Data Gaps**

In order to address data gaps, additional sources of information may be consulted. According to AAI, Section 312.20 (g), "to the extent there are data gaps (as defined in section 312.10) in the information developed...that affect the ability of persons (including the environmental professional) conducting the all appropriate inquiries to identify conditions indicative of releases or threatened releases...such persons should identify such data gaps, identify the sources of information consulted to address such data gaps, and comment upon the significance of such data gaps". According to ASTM E 1527-13, Section 8.3.2.3, "historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data failure occurs when all standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for the exclusion."

This Phase I ESA was completed without significant data gaps.

## **9.0 FINDINGS AND OPINIONS**

This Phase I ESA was conducted in accordance with the ASTM Practice E1527-13 (Standard Practice for ESA: Phase I ESA Process) and the USEPA AAI Rule. The objective of this Phase I ESA was to identify the presence or likely presence, use, or release on the Site of hazardous substances or petroleum products as defined in ASTM E1527-13 as a REC.

The Phase I ESA identified the following RECs for the Site:

### REC 1 – Current and Historical Site Use

The following current and historical property uses are considered a REC:

- Coal Storage from approximately 1891 to 1908;
- New Jersey Rail Road Bronx Freight terminal from approximately 1908 through the 1950s; and
- Crane repair, paint shop, blacksmith shop, bus depot, and vehicle repair shop from approximately 1968 to present.

The Site is presently divided into two sections with Third Avenue Transit Inc. occupying the eastern portion of the Site and Oz Moving & Storage occupying the western portion. Third Avenue Transit Inc. utilizes the Site for storage of equipment & materials, school bus repairs, and as office space. There is an oil-water separator with an apparent leak detection system in the middle of the Third Avenue Transit warehouse building. The condition of the oil-water separator system is unknown. Oz Moving & Storage utilizes the Site for the storage of equipment, materials and vehicles, and vehicle repair. Vehicle repair equipment and discolored and stained floors are apparent throughout the building. Inadvertent and/or incidental releases of solvents, petroleum products, PCBs and/or other chemicals used during operations at these facilities may have adversely impacted soil, soil vapor and groundwater.

### REC 2 – On-Site Closed-In-Place Underground Storage Tanks

Twelve 550-gallon diesel USTs, two 550-gallon gasoline USTs, one 1,000-gallon motor oil UST, and one 1,000-gallon waste oil UST were closed-in-place between 1991 and 1992. Inadvertent releases from these tanks while they were active may have impacted soil, soil vapor, and groundwater. Based on the historic usage and the presumed age of the tanks (approximately 44 years), the closed-in-place USTs are a REC.

### REC 3 – Potential Historic Petroleum Storage

An apparent fill port was identified in the sidewalk along the northwestern edge of the Site. There are no records of a petroleum bulk storage tank near the apparent fill port. Based on the potential presence of tanks and lack of any closure documentation, the fill port and potential petroleum tank(s) are a REC.

### REC 4 – Soil Staining

Petroleum-like staining and odors were identified along the southwestern corner of the building during the site reconnaissance. A petroleum release may have impacted soil, soil vapor and groundwater and is considered a REC. According to the NYC Department of Finance Tax Map, an approximate 50-foot wide sliver of land (Block 2316, Lot 35) exists between the Site and the Harlem River; therefore, the observed soil staining may be located outside the Site property line.

### REC 5 – Historical Use of Surrounding Properties

Historical use of properties surrounding the Site include commercial buildings with office space, lofts, auto repairs (1908 – present), parking garages (1951 – 1968), manufacturing facilities (1891 – 1946), freight depots (1891 – 1947), a piano factory (1891), printing (1935 – 1947), and woodworking (1891). Additionally, an active NYSDEC Brownfields Site was identified approximately 745 feet northeast (up-gradient) of the Site. Based on investigations conducted to date, the primary contaminants of concern in soil and groundwater are petroleum related compounds. No information was provided with respect to the off-site migration of contaminants; however, the EDR report indicates that the potential exists for off-site migration of site-related contaminants in soil vapor. Potential petroleum and solvent releases associated with the historical surrounding property uses may have adversely impacted soil, groundwater, and/or soil vapor at the Site and is, therefore, considered a REC.

Historic RECs (HRECs), Controlled RECs (CRECs) or de minimis conditions were not identified.

### **Non-ASTM Matters**

#### Asbestos, Lead, and Polychlorinated Biphenyls

A formal survey to identify ACM, LBP, and PCBs in building materials was not conducted as part of this Phase I ESA. Based on the age of the building, ACM, LBP, and PCB-containing materials are likely present.

### Radon

According to the NYSDOH, a total of 31 radon tests have been conducted in Bronx County with results indicating that 4% of living areas and 58% of basements have radon concentrations above 4 pCi/L. Based on this data, there is a potential for radon to accumulate in buildings; radon represents an environmental concern.



## 10.0 REFERENCES

The following references were reviewed as part of this Phase I ESA:

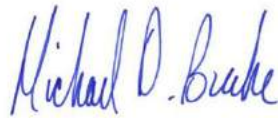
1. Environmental Data Resources, Inc., Inquiry Number: 3910510.12, April 16, 2014. Aerial Photo Decade Package.
2. Environmental Data Resources, Inc., Inquiry Number: 3910510.5, April 14, 2014. City Directory Abstract.
3. Environmental Data Resources, Inc., Inquiry Number: 3910510.7, April 17, 2014. Environmental Lien Search.
4. Environmental Data Resources, Inc., Inquiry Number: 3910510.4, April 15, 2014. Historical Topographic Map Report.
5. Environmental Data Resources, Inc., Inquiry Number: 3910510.2s, April 14, 2014. Radius Map with GeoCheck.
6. Environmental Data Resources, Inc., Inquiry Number: 3910510.3, April 15, 2014. Sanborn Map Report.
7. Environmental Data Resources, Inc., Inquiry Number: 3910510.8, April 14, 2014. Building Permit Report.
8. Environmental Protection Agency, [USEPA Map of Radon Zones.](#)
9. New York City Department of Buildings, Building Information System, <http://www.nyc.gov/html/dob/html/bis/bis.shtml>, reviewed April 16, 2014.
10. New York City Planning Commission. November 14, 2013. Zoning Map 6a.
11. New York City Department of Finance, Office of the City Register, Automated City Register Information System (ACRIS) website, <http://a836-acris.nyc.gov/CP/>, reviewed April 16, 2014.
12. NYC Oasis Maps: <http://www.oasisnyc.com/map.aspx>
13. NYCityMap, <http://gis.nyc.gov/doitt/nycitymap/>

14. "Sanitary & Topographic Map of the City and Island of New York", Viele, 1865.
15. "Map of the City and County of New York with the Adjacent Country by David H. Burr, Published by Simeon DeWitt, Surveyor General, Pursuant to an Act of the Legislature. Second Edition", Burr, 1832.
16. "Map of the City and County of New York with the Adjacent Country by David H. Burr, Published by Simeon DeWitt, Surveyor General, Pursuant to an Act of the Legislature. Third Edition", Burr, 1840.
17. "Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New York", USGS, 1994.

## **11.0 STATEMENT OF QUALIFICATIONS AND SIGNATURES**

Langan declares that, to the best of its professional knowledge and belief, the personnel who performed this Phase I ESA meet the definition of Environmental Professional as defined in Subsection 312.10 of 40 CFR 312 and that they have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Properties. They have developed and performed the AAls in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes outlining the qualifications of the Environmental Professionals who performed this Phase I ESA are provided in Appendix P.

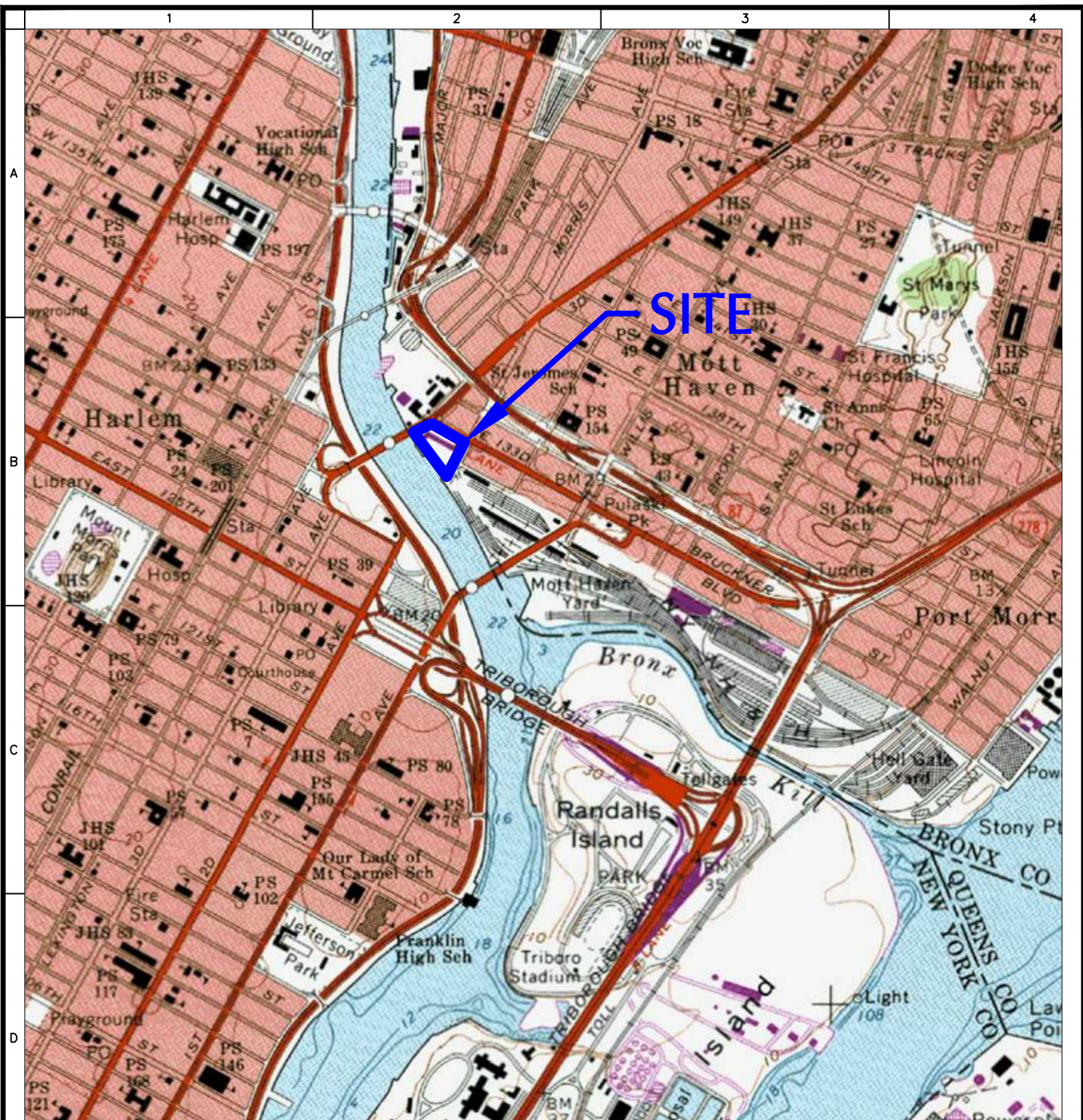
**Langan Engineering, Environmental, Surveying and  
Landscape Architecture, D.P.C.**



Michael D. Burke, CHMM  
Senior Associate

## **FIGURES**





SOURCE: PORTION OF USGS CENTRAL PARK QUADRANGLE MAP, 1995

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

**LANGAN**  
 21 Penn Plaza, 360 West 31st Street, 8th Floor  
 New York, NY 10001  
 T: 212.479.5400 F: 212.479.5444 www.langan.com  
 Langan Engineering, Environmental, Surveying and  
 Landscape Architecture, D.P.C.  
 Langan Engineering and Environmental Services, Inc.  
 Langan CT, Inc.  
 Langan International LLC  
 Collectively known as Langan

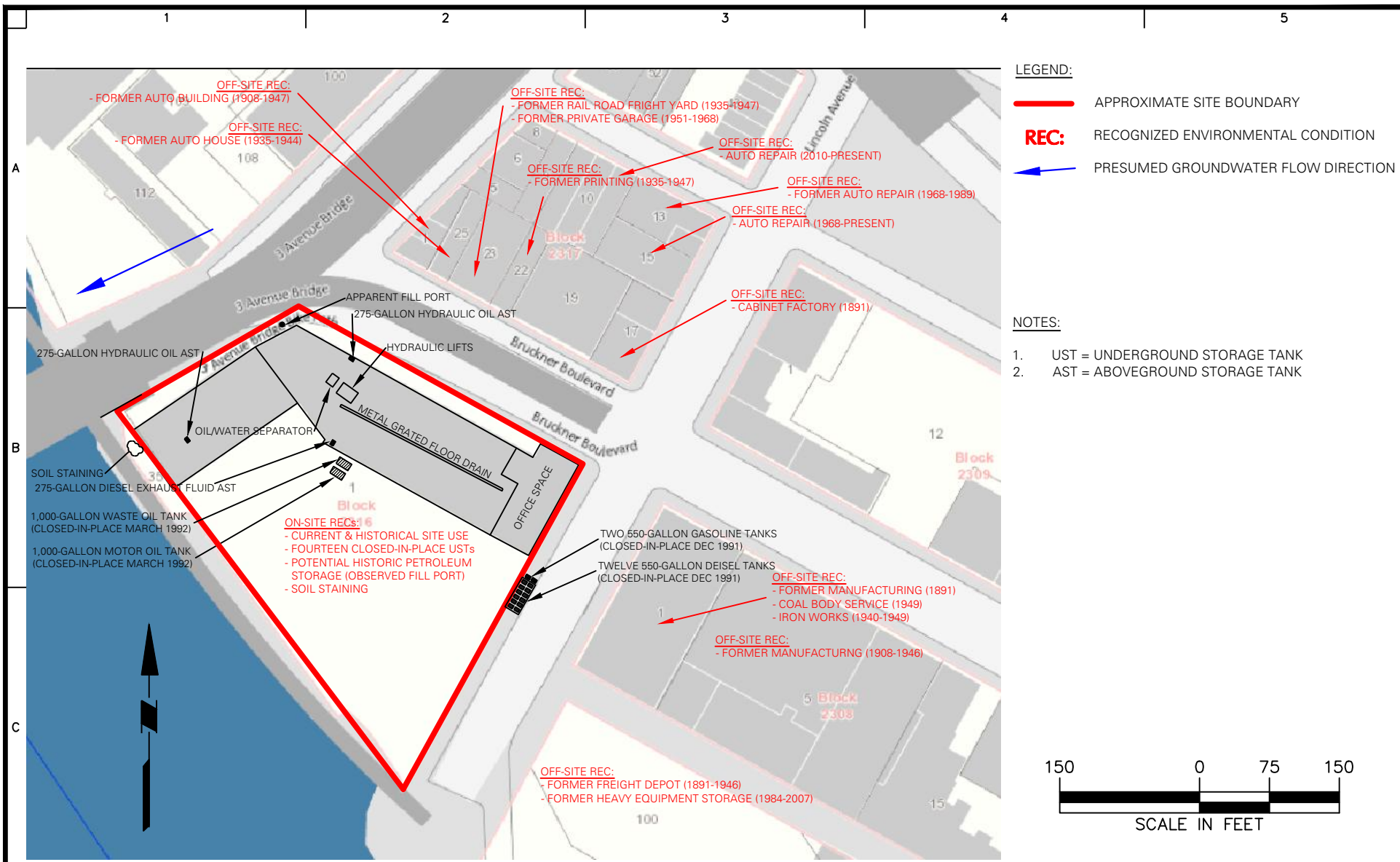
Project  
**101 LINCOLN AVENUE**  
 BLOCK No. 2316, LOT No. 1  
 BRONX  
 NEW YORK NEW YORK

Drawing Title  
**SITE LOCATION MAP**

Project No.  
170301301  
 Date  
APRIL X, 2014  
 Scale  
NTS  
 Drawn By  
RJW  
 Checked By  
MB  
 Submission Date  
APRIL X, 2014

Drawing No.  
**1**



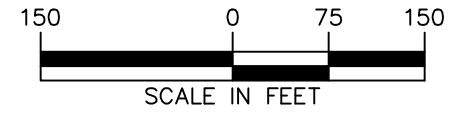


**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- REC:** RECOGNIZED ENVIRONMENTAL CONDITION
- ← PRESUMED GROUNDWATER FLOW DIRECTION

**NOTES:**

1. UST = UNDERGROUND STORAGE TANK
2. AST = ABOVEGROUND STORAGE TANK



**WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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 Langan Engineering, Environmental, Surveying and  
 Landscape Architecture, D.P.C.  
 Langan Engineering and Environmental Services, Inc.  
 Langan CT, Inc.  
 Langan International LLC  
 Collectively known as Langan

Project  
**101 LINCOLN AVENUE**  
 BLOCK No. 2316, LOT No. 1  
 BRONX  
 NEW YORK NEW YORK

Drawing Title  
**RECONGNIZED ENVIRONMENTAL CONDITIONS LOCATION MAP**

Project No. 170301301		<b>2</b>
Date APRIL 21, 2014		
Scale 1" = 150'		
Drawn By RJW	Checked By MB	
Submission Date APRIL 21, 2014		

## **APPENDIX A**

### **Site Reconnaissance Photographs**



Photo 1: View of the entrance of the Site (facing southwest) from Lincoln Avenue.



Photo 2: View of the eastern edge of the Site (facing south) from the intersection of Lincoln Avenue and Bruckner Boulevard.





Photo 3: View of the northeastern corner of the Site (facing south) from Bruckner Boulevard.



Photo 4: View of the northern edge of the Site (facing west).



Photo 5: View of the western edge of the Site (facing south). Apparent fill port seen in photo.



Photo 6: Close-up of apparent fill port.





Photo 7: View of the northern-adjacent properties (across Bruckner Boulevard), facing north.



Photo 8: View of the western-adjacent property (facing west).



Photo 9: View of the eastern-adjacent property (facing southeast) from the intersection of Lincoln Avenue and Bruckner Boulevard.



Photo 10: View of the southeastern-adjacent active dirt, concrete, rock, gravel, stone and sand processing facility (facing east).





Photo 11: View of the southern-adjointing lot (Block 3216, Lot 35), facing west. Third Avenue Bridge in background.

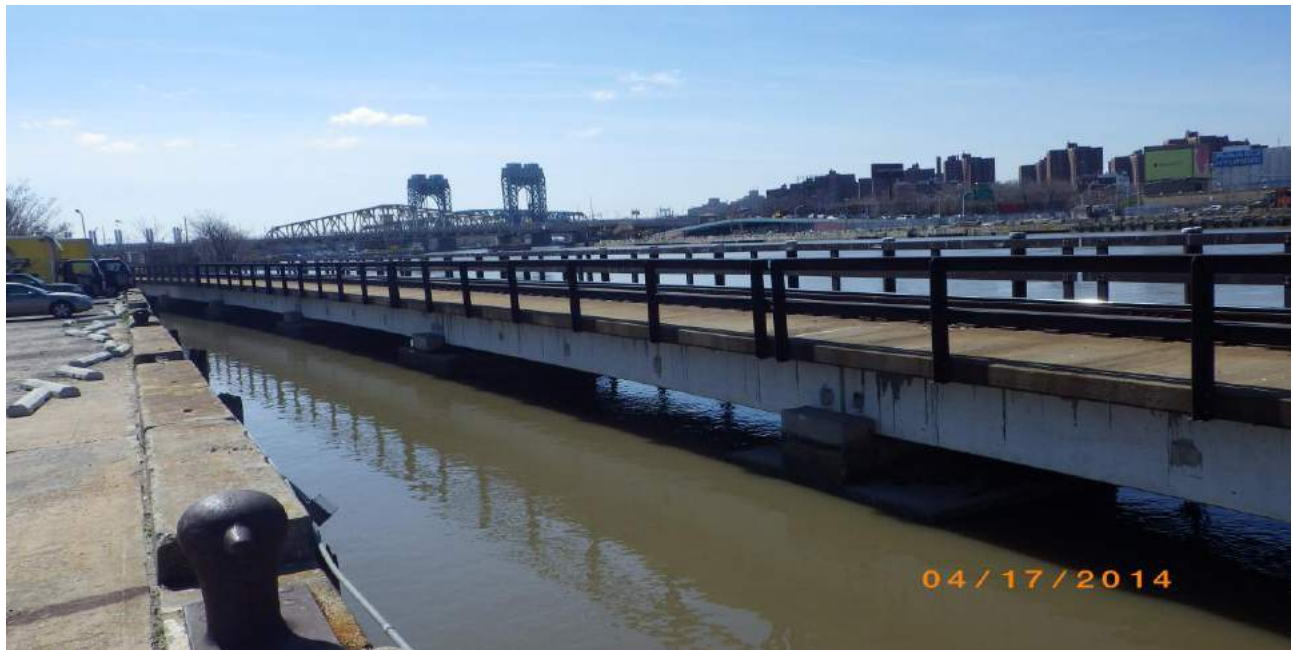


Photo 12: View of the Harlem River and railroad (facing southeast), located south of the Site.



Photo 13: View of the Site (facing west) from Lincoln Avenue. The fence dividing Oz Moving & Storage property from the Third Avenue Transit Inc. property is shown.



Photo 14: View of the Third Avenue Transit Inc. property parking lot (facing northwest).





Photo 15: View of the Harlem River from the Oz Moving & Storage property (facing south).



Photo 16: View of the Oz Moving & Storage parking area (facing northwest).



Photo 17: View of the Oz Moving & Storage parking area (facing west).



Photo 18: View of the Third Avenue Transit Inc. property parking area (facing east).





Photo 19: View of the Third Avenue Transit Inc. property parking area (facing north). Building office area shown to the right of the photo.



Photo 20: View of parking area storm drain.



Photo 21: View of apparent historical fill port associated with the closed-in-place USTs along the eastern edge of the Site.



Photo 22: View of the apparent former vent pipes associated with the closed-in-placed USTs.





Photo 23: View of miscellaneous vehicle repair equipment located along the northwestern wall of the Oz Moving & Storage warehouse.



Photo 24: View of portable vehicle jacks.



Photo 25: View of 275-gallon hydraulic oil AST located in the Oz Moving & Storage warehouse.



Photo 26: View of miscellaneous product storage; including, motor oil, transmission oil, washer fluid, and coolant.





Photo 27: View of several 55-gallon drums of motor oil, washer fluid, etc.



Photo 28: View of several 5 gallon buckets of lacquer thinner, brake fluid, etc.



Photo 29: View of miscellaneous petroleum- and solvent based vehicle repair/maintenance products.



Photo 30: View of recent evidence of spill beneath vehicle and absorbent material.





Photo 31: View of floor drain.



Photo 32: View of miscellaneous equipment.



Photo 33: View of welding area in the Oz Moving & Storage warehouse.



Photo 34: View of the ceiling of the Oz Moving & Storage warehouse.





Photo 35: View of the paint room in the Oz Moving & Storage warehouse.



Photo 36: View of painting supplies/product storage.



Photo 37: View of the material storage within the Oz Moving & Storage warehouse.



Photo 38: View of the material storage within the Oz Moving & Storage warehouse.





Photo 39: View of the Third Avenue Transit Inc. warehouse bus storage (facing east).



Photo 40: View of the Third Avenue Transit Inc. office area entrance.



Photo 41: View of the two hydraulic lifts located with the Third Avenue Transit Inc. warehouse.



Photo 42: View of the runoff channel floor drain.





Photo 43: View of the oil/water separator.



Photo 44: View of the apparent oil/water separator leak detector monitor.



Photo 45: View of the miscellaneous 55-gallon product storage drums.



Photo 46: View of recent signs of surficial staining associated with fluid spills.



Photo 47: View of recent signs of surficial staining associated with fluid spills.



Photo 48: View of the 275-gallon diesel exhaust fluid AST located with the Third Avenue Transit Inc. warehouse.





Photo 49: View of recently applied absorbent material located within the Third Avenue Transit Inc. warehouse.



Photo 50: View of floor drain.





Photo 51: View of equipment and product storage area within the Third Avenue Transit Inc. warehouse.



Photo 52: View of vehicle battery storage.



Photo 53: View of petroleum- and solvent-based vehicle maintenance chemicals.



Photo 54: View of the 275-gallon hydraulic oil AST located within the Third Avenue Transit Inc. warehouse.





Photo 55: View of the brake cleaning area of the Third Avenue Transit Inc. warehouse.



Photo 56: View of the area located immediately outside the Oz Moving & Storage warehouse, along the southwestern edge of the Site.



Photo 57: View of the area located immediately outside the Oz Moving & Storage warehouse, along the southwestern edge of the Site.



Photo 58: View of the corroded drum and soil staining area located immediately outside the Oz Moving & Storage warehouse, along the southwestern edge of the Site.





Photo 59: View of the boiler room located in the eastern area of the Third Avenue Transit Inc. building.



Photo 60: View of the Third Avenue Transit Inc. office space.

## **APPENDIX B**

### **Completed Questionnaires**

## ASTM PRACTICE E 1527-13: USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to  
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

---

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The User is defined as the party seeking to use Practice E1527 to complete an environmental site assessment of the property. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. These inquiries must also be conducted by the EPA Brownfield Assessment and Characterization grantees. The User should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

---

### General Information

**User/Client Name (s):** 101 Lincoln Associates, LLC

**Property Name:** 101 Lincoln Avenue

**Address:** 101 Lincoln Avenue

Bronx, NY Block 2316 Lot #1

**Property Type:** Industrial

### **Type of Property Transaction:**

Purchase of property

Financing of property

Sale of property

Ground Lease

Build to Suit Lease

Other \_\_\_\_\_

**Reason Why Phase I ESA is required:** Acquisition

**Site Contact (s):** Arthur A. Micheli, Tel. 718-585-1800

### Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

# LANGAN

**(1.) Environmental liens that are filed or recorded against the property (40 CFR 312.25).** Yes No

Did a search of recorded land title records (or judicial records, where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?

Note 1 – In certain jurisdictions, federal, tribal, state or local statutes or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

**(2.) Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and (vi)).** Yes No

Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?

**(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).** Yes No

Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

**(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).** Yes No

- (a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Part 5.]
- (b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

**(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30).** Yes No

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

- (a.) Do you know the past uses of the property?
- (b.) Do you know of specific chemicals that are present or once were present at the property?
- (c.) Do you know of spills or other chemical releases that have taken place at the property?
- (d.) Do you know of any environmental cleanups that have taken place at the property?

**(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).** Yes No

Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?



# LANGAN

## Additional Information

Please provide any additional information that you feel is pertinent to the investigation:

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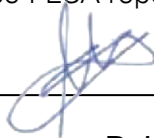
No additional information

---

## **SIGNATURE:**

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By:



Print/Type Name:

---

Gregory P. Knoop

---

Title:

---

Authorized Signatory

---

Company:

---

101 Lincoln Associates, LLC

---

Date:

---

April 22nd, 2014

---

## **APPENDIX C**

### **Previous Environmental Reports**

CA RICH CONSULTANTS, INC.  
17 DUPONT STREET  
PLAINVIEW, NEW YORK 11803

**FACSIMILE Cover Page**

To: Rob Gerosa  
Company: Gerosa Incorporated  
Phone:  
Fax: (718) 585-0658

From: Jason Cooper  
Company: CA Rich Consultants, Inc.  
Phone: (516) 576-8844  
Fax: (516) 576-0093  
Date: 1/10/08

Pages including this cover pages: 20 including cover

**Comments:**

Rob,  
I am faxing over the text of the report. I will send you a hardcopy of the report when the copy machine is repaired (hopefully later today). I understand that you would like to pass this report along to someone. If you can get me that someone's e-mail address I will send the report to them immediately.

Thanks,  
Jason

---

*The information contained herein is intended for the use of the individual(s) or entity named above and those properly entitled to access it. This transmission may contain administrative, technical or pricing information that is legally privileged, proprietary, confidential and/or exempt from disclosure under applicable law. If the reader of this transmission is not the intended recipient or the employee responsible for delivering this facsimile to the intended recipient, you are hereby notified that any unauthorized distribution, dissemination or duplication of this transmission is prohibited. If you have received this transmission in error, please immediately notify us by telephone or facsimile. Thank you.*

---



**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT**

**Verizon and  
Atlantic Express Bus Garages  
101 Lincoln Avenue  
Bronx, New York 10454**

**October 2007**

**Prepared for:**

**Titan Realty Partners, LLC  
405 Lexington Avenue – 26<sup>th</sup> Floor  
New York, NY 10174**

**Attention: Mr. Bruce McLean**

**Prepared by:**

**CA RICH CONSULTANTS, INC.  
17 Dupont Street  
Plainview, New York 11803  
(516) 576-8844**



October 10, 2007

**Titan Realty Partners, LLC**  
405 Lexington Avenue – 26th Floor  
New York, NY 10174

Attention: Mr. Bruce McLean

Re: Phase I Environmental Site Assessment (ESA)  
101 Lincoln Avenue  
Bronx, New York 10454  
Block: 2316; Lot: 1

Dear Mr. McLean:


The following report summarizes a Phase I Environmental Site Assessment (ESA) of the above-referenced location (hereinafter referred to as the Property or the Site), performed by CA Rich Consultants, Inc. (CA RICH). This Phase I ESA was completed in substantive conformance with the scope and limitations of ASTM Practice E 1527-2005, which sets forth nationally accepted Phase I guidance criteria.

If you have any questions pertaining to this report, please feel free to contact the undersigned. We thank you for the opportunity to provide you with our professional environmental services.

Sincerely,

CA RICH CONSULTANTS, INC.

  
\_\_\_\_\_  
Jason T. Cooper, EP  
Project Environmental Scientist

  
\_\_\_\_\_  
Eric A. Weinstock, EP  
Vice President

Enclosure

**ca RICH** ENVIRONMENTAL SPECIALISTS

**Report Distribution**

This report was prepared for Titan Realty Partners, LLC.

The following parties have been provided copies of this report and may rely upon the contents of the document.

- Gerosa Incorporated, its successors, assigns and affiliates.

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**CA RICH ENVIRONMENTAL SPECIALISTS**

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Appendix D - Supplemental Information  
Appendix E - Local Directory  
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**CA RICH ENVIRONMENTAL SPECIALISTS****EXECUTIVE SUMMARY**

CA RICH CONSULTANTS, INC. ("CA RICH") of Plainview, New York has completed this Phase I Environmental Site Assessment (ESA) of the property located at 101 Lincoln Avenue in the Bronx, New York (hereinafter referred to as the "Property" or "Site"). CA RICH performed this Phase I ESA in substantive conformance with the suggested informational requirements, scope and limitations of the American Society for Testing & Materials (ASTM) prevailing Standard Practice E 1527-05 for environmental site assessments. Any exceptions to, or deletions from, these practices are described in Section 1.4 of this Report.

The information and findings presented herein are based upon the data acquired during the Property visit, and through pertinent information obtained from regulatory agencies, responsible persons knowledgeable about the Property, and other historical information sources.

The subject Property located at 101 Lincoln Avenue consists of an approximate 133,700 square foot plot of land that contains a one-story, L-shaped warehouse building with a connected two-story office building occupying approximately 63,064 square feet in the Bronx, New York. The Property is divided into two sections with Verizon occupying the eastern portion of the Property and Atlantic Express Bus occupying the western portion. Verizon utilizes the Property for the storage of equipment, materials, and vehicles, vehicle repair, and as office space. Atlantic Express Bus utilizes the Property for the storage of equipment, materials, and vehicles, and school bus repairs. The building is connected to public water and sewers and is heated via natural gas burners. The Property was previously occupied by the New Jersey Rail Road Bronx Freight from 1908 to 1951 and is located in a historic industrial/commercial area.

Based upon the information reviewed for this Phase I ESA, we have identified the following "Recognized Environmental Conditions" (RECs) in connection with the subject Property.

**REC-1** Three floor drains were found through the Atlantic Express Bus garage. One drain was opened and found to contain a soft bottom with a depth of approximately 5 inches. We recommend further investigating these drains to determine if they have an earthen bottom and collect soil samples from the drain(s) if necessary.

**REC-2** A hydraulic lift was identified in the Verizon warehouse. In addition, two possible hydraulic lift covers were identified in close proximity to the hydraulic lift. We recommend soil testing in an around the hydraulic lift to determine if a release of hydraulic fluid has occurred. In addition, we recommend further investigating the two possible hydraulic lift covers. If these covers are determine to contain or previously contained hydraulic fluid we recommend additional soil sampling.

**REC-3** An oil/water separator and associated well covers were identified in the Verizon warehouse. We recommend obtaining the maintenance records associated with the oil/water separator and well covers to determine if their operation has had an impact to the neighboring soils and/or groundwater.

**HREC-1** 12 550-gallon diesel tanks and 2 550-gallon gasoline tanks were abandoned in place on the Property in 1991 and 1992. During the abandonment only soil sample was collected. We recommend additional soil sampling to determine the integrity of the soil in the former tank area.

**HREC-2** The Property had been occupied by the New Jersey Rail Road Bronx Freight from 1908 to 1951. It was also used for coal storage between 1891 and 1908. Transformers and motor fuels are typically used in railroad yards. We recommend testing the soils for PCBs, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals including lead.

**CA RICH ENVIRONMENTAL SPECIALISTS****1.0 INTRODUCTION****1.1 Purpose**

The purpose of this Phase I ESA is to identify ASTM-defined Recognized Environmental Conditions associated with the subject Property. This assessment was conducted in substantive conformance with ASTM's "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" E 1527-05.

This Standard is designed to constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in CERCLA 42 USC 9601 (35) (B). Consequently, this assessment investigates the historical land use and present-day condition of the Property in accordance with accepted standards prevailing within the lending industry and the environmental assessment profession. The term *recognized environmental conditions* does not include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate regulatory agencies.

**1.2 Detailed Scope of Services**

The following general activities were performed by CA RICH as part of this Phase I ESA:

- Visual and physical inspection of representative reasonably accessible interior and exterior areas of the Property by an experienced CA RICH Environmental Professional (EP), whom also satisfies the educational and experience qualification requirements stipulated under the Federal EPA's companion "AAI" Rule, effective November 1, 2006. The review included a search of environmental liens for the property, activity and use limitations, if any, and any applicable engineering and institutional controls, information data gaps, as well as building practices at adjacent properties;
- Investigation of historical land use practices including review of Local Directory publications, USGS topographic maps, aerial photographs, and historical Sanborn® Maps, discussions with knowledgeable parties associated with the Property and other readily available records or reports (i.e., prior Phase 1's);
- Review and inquiry of relevant Federal, State, and Local database records pertaining to the subject Property and properties located within approximate minimum search distances for the purposes of identifying potential sources of any migrating hazardous substances or petroleum products; and,
- Review of the Property's proximity to ecologically sensitive areas or media (i.e. parks, rivers, underlying ground water, etc.) using records and maps published by the Federal United States Geological Survey (USGS) along with neighborhood reconnaissance.

**ca RICH ENVIRONMENTAL SPECIALISTS****1.3 Significant Assumptions**

For the purpose of performing this Phase I ESA, CA RICH assumes that information provided to us by the Client, database search companies, historical records, interviews, etc. is accurate. Our findings and conclusions regarding the potential environmental impact of nearby, off-site buildings or adjoining property facilities upon the subject Property are based upon readily available information from review of the environmental databases and observable conditions at the time of inspection by the EP. Any further, more detailed review or interpretation of a specific file or record is beyond the standard Phase I scope of work approved at this time.

Further, the Environmental Professional investigator(s) cannot be held responsible for either innocent or intentional misrepresentations, inaccurate statements, claims made, or information furnished to CA RICH regarding the environmental integrity of this Property.

**1.4 Limitations and Exceptions**

CA RICH performed this Phase I ESA of the subject Property in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry as set forth in ASTM E1527-05. CA RICH has included a review of some non-ASTM issues for this assessment including asbestos, polychlorinated biphenyl's (PCBs), and radon gas; otherwise there have been no intentional deviations or deletions from this practice in the performance of this assessment. The assessment included a visual (observable) inspection of representative areas of the Property, the examination of readily ascertainable and practically reviewable public records concerning the current and prior use of the Property, recorded environmental conditions, and further discussions with responsible and knowledgeable parties associated with the Property.

The findings, conclusions and professional opinion set forth in this environmental report are based upon the limited information available to CA RICH during this assessment period. If new information becomes available concerning the Property or the future property and its environs relative to existing or future intended land use after the date of this report, the findings and conclusions contained herein may be subject to modification. While this assessment was performed in accordance with good commercial and customary practice and generally accepted protocols within the environmental consulting industry, CA RICH cannot guarantee that the Property is completely free of hazardous substances or other materials or conditions that could subject the Owner(s) to potential liabilities. The presence or absence of any such condition may only be revealed or confirmed through the sample collection and analysis of any stored or suspect residual liquids, gels, or solid waste materials, chemicals, miscellaneous hazards, residues, biologicals, odors, soot, refuse, building materials, underlying fill, fluids, or soils, soil vapors, ground water, and/or surface water etc.

Subsurface conditions were not field-investigated and were outside the scope of this Phase I ESA and therefore, may differ from the conditions implied by records review and/or surficial observations. Building contamination, waste emplacement, lead-based paint, asbestos, fill, and soil or groundwater contamination would be disclosed to CA RICH only by surficial indications, interviews, or available regulatory records. In the absence of such information, these possible conditions may only be revealed through further specific media testing or sampling and testing methodologies all of which are beyond the scope of this 'Phase I' assessment, with exceptions as reported herein.

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Because there are limitations to the amount of time and resources expended at this level of an initial Phase I Assessment, CA RICH cannot guarantee that all existing and pertinent Property information was reviewed. There may remain data gaps and/or additional relevant information not discovered through the standard level of all appropriate inquiry employed at this time. However, we do acknowledge that to the best of our belief, the readily ascertainable information we have supplied is true, complete and correct, and that facts or figures that may have an adverse effect upon the validity of the findings and professional opinion provided herein have not purposely been omitted.

CA RICH has no interest other than professional in this Environmental Site Assessment and neither its performance, nor compensation for same, is contingent upon the findings and/or opinion or recommendation(s), if any, represented herein. Any litigation matters that may pertain to the Property are not discussed and this Report is not a legal opinion.

**1.5 User Reliance**

This Report is intended for the sole use of the Client. It may not be used or relied upon by any other party, or third party, without the written consent of CA RICH. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, future occupants, future prospective purchasers, and/or altered land usage, or altered future land usage, and the use or re-use of this document or the findings, professional opinion, or aforementioned recommendations provided herein is at the risk of said user.

**2.0 PROPERTY DESCRIPTION****2.1 Location and Legal Description**

The subject Property is an irregularly shaped parcel of land located at 101 Lincoln Avenue in the southwestern portion of the Bronx, NY. The Property lies on the northwest side of Lincoln Avenue, just west of East 132<sup>nd</sup> Street, southeast of the Harlem River and the Third Avenue Bridge (see Figure 1). The Tax Map designation for the Property is Block: 2316; Lot: 1 and is designated little "e" for restricted hazmat/noise/air.

**2.2 Description of Property**

The subject Property located at 101 Lincoln Avenue consists of an approximate 133,700 square feet plot of land that contains a one-story, L-shaped warehouse building with a connected two-story office building occupying approximately 83,064 square feet in the Bronx, New York. The Property is divided into two sections with Verizon occupying the eastern portion of the Property and Atlantic Express Bus occupying the western portion. Verizon utilizes the Property for the storage of equipment, materials, and vehicles, vehicle repair, and as office space. Atlantic Express Bus utilizes the Property for the storage of equipment, materials, and vehicles, and school bus repair. The building is connected to public water and sewers and is heated via natural gas burners.

**2.3 Description of Surrounding Area**

The Property is located in the Bronx, New York and is bordered by commercial/industrial structures to the north, east and south. To the west of the Property are the Harlem River and railroad tracks.

**2.4 Current Uses of the Property**

The Property is occupied by two tenants; Verizon and Atlantic Express Bus. Verizon utilizes the Property for the storage of equipment, materials and vehicles, vehicle repair, and as office space.

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Atlantic Express Bus utilizes the Property for the storage of equipment, materials, and vehicles, and school bus repair.

**2.5 Current Uses of Adjoining Properties**

The Property is situated on the west side of Lincoln Avenue and across from East 132<sup>nd</sup> Street in a primarily commercial/industrial area of the Bronx, New York. Adjoining properties include the following:

- North: Bruckner Boulevard and commercial buildings.
- South: Harlem River and railroad tracks.
- East: Glass Works building and Felix Industries construction
- West: Harlem River and the Third Avenue Bridge

**2.6 Site Geology & Hydrogeology**

The subject Property, located in the southwestern portion of the Bronx, is situated upon the Inwood Marble, which is a member of the Wappinger Group. The Wappinger Group consists of metamorphosed dolomitic rocks of Cambrian and Ordovician age. The actual soil type, depth to groundwater and flow direction can only be obtained through a site-specific hydrogeological study including the physical installation of soil borings and wells, which is beyond the scope of this Phase I ESA. However, reviewing a USGS topographic map the, the inferred groundwater flow is in westerly direction towards the Harlem River.

**3.0 USER-PROVIDED INFORMATION**

ASTM E 1527-05 defines the "User" as: *"the party seeking to use practice E 1527-05 to complete an environmental site assessment of the property"*. The user is responsible for providing certain information (if available) to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001. Failure to provide this information could result in a determination that *"all appropriate inquiry"* is not complete. As such, a User Questionnaire was prepared in conformance with E 1527-05, X3; and was submitted to the client to satisfy the requirements for user-provided information. However, it was determined that the questions contained in the Questionnaire could best be answered by the owner, Mr. A. Lawrence Gerosa. As such, a copy of CA RICH's questionnaire was forwarded to Mr. Gerosa as well. Information from the completed questionnaire was used to complete the following sections along with an environmental lien search provided by CA RICH. A completed questionnaire is included in Appendix D.

**3.1 Title Records**

Title records were not provided by the User.

**3.2 Environmental Liens**

An environmental lien search was not provided by the User, but was requested by CA RICH from EDR and received on September 24, 2007. The environmental lien search reports that there are no environmental liens or activity and use limitations (AULs) for the Property. In addition, Mr. Gerosa indicated that there are no environmental liens held against the Property.

**3.3 Specialized Knowledge**

The Property owner indicated that the Property contained railroad tracks and a turntable that was used for the shipping of railroad freight prior to Property purchase in 1966.

**Ca RICH ENVIRONMENTAL SPECIALISTS****3.4 Commonly Known or Reasonably Ascertainable Information**

Mr. Micheli indicated that the Property contained 12, 550-gallon underground diesel storage tanks and 2, 550-gallon underground gasoline storage tanks that were abandoned in place in 1991 and 1992 by Gaservice. In addition, he indicated that the Property was underlain by approximately 10-inches of compacted stone prior to the construction of the building in 1960's.

**3.5 Valuation Reduction for Environmental Issues**

A valuation reduction for environmental issues was not provided by the User and is not included as part of this Phase I ESA. According to ASTM E1527-2005 this is considered a data gap; however, this data gap is not considered to have a significant impact on the findings of this assessment. However, Mr. Gerosa did indicate that the Property value is comparable to market value.

**3.6 Owner, Property Manager, and Occupant Information**

A telephone interview was conducted with the owner of the Property, Mr. A. Lawrence Gerosa on September 27, 2007. Mr. Gerosa indicated that the Property was formerly used as a crane repair, storage and painting facility from 1966 to approximately 1991. The previous use of the Property was by the New Jersey Central Rail Road Terminal. Mr. Gerosa is unaware of any environmental conditions at the Property. No other information related to the environmental integrity of the Property was provided.

**3.7 Reason for Performing Phase I**

The purpose of performing this Phase I ESA is to satisfy the environmental due diligence requirements for the acquisition of a loan by the Client.

**4.0 SITE RECONNAISSANCE****4.1 General**

The subject Property was inspected by Jason Cooper, Environmental Professional, of CA RICH on September 13, 2007 with the assistance of Property manager Mr. Arthur Micheli. The Property contains an L-shaped building with raised warehouse ceilings and is situated along the north, northwest and east property lines. The southeast portion of the building does not contain raised warehouse ceilings; rather two-stories used for office space. The Property is occupied by Atlantic Express Bus along the northwest portion and Verizon along the north and east portions of the Property. Driveways along Lincoln Avenue provide access to both businesses. Photographs were taken to document observations at the time of the walk-through inspection. Selected photographs illustrating salient observations are included in Appendix A.

**4.2 Methodology and Limiting Conditions**

The inspection on September 13, 2007 was conducted with the assistance of the Property manager, Mr. Arthur Micheli. The Property was inspected in the following order:

- A general walkthrough of the Atlantic Express Bus parking lot and observing the west portion of the Property along the Harlem River;
- A general walkthrough of each individual garage bay of the Atlantic Express Bus garage;
- A general walkthrough of the Verizon building, including the second floor lunch room, beginning at the north end of the building and then proceeding in a southeasterly direction towards the office building;

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- A general walkthrough of the office space of the two-story building near southeast corner of the Property, and
- A general walkthrough of the Verizon parking lot and then a walk around the perimeter of the Property identifying neighboring properties.

The Verizon portion of the Property contained a large amount and variety of equipment and materials stored in boxes. All of the equipment and materials were not inspected; however, Mr. Micheli indicated that materials were of a non-hazardous nature. In addition, the floors in the warehouse portion of the Verizon Property were covered in numerous areas by either vehicles or equipment. It is unknown what, if anything exists beneath the vehicles and equipment.

#### 4.3 Interview Information

Mr. Arthur Miceli assisted Jason Cooper, Environmental Professional, of CA RICH during the Site walkthrough and provided information about the subject Property.

In addition, a telephone interview was conducted with the President of Gerosa Incorporated, Mr. A. Lawrence Gerosa on September 27, 2007. Mr. Gerosa indicated that the Property was formerly used as a crane repair, storage and painting facility from 1966 to approximately 1991. The previous use of the Property was by the New Jersey Central Rail Road Terminal. A copy of the interview questionnaire is included as Appendix D.

#### 4.4 Exterior Observations

The subject Property contains one continuous L-shaped building that is situated along the north, northwest and eastern portions of the Property boundary. The building is constructed of brick and mortar and the parking lot is a mix of concrete and asphalt. The Property is divided by a chain link fence that separates Atlantic Express Bus on the west from Verizon on the east. According to the Property manager, Mr. Micheli, Atlantic Express Bus occupies approximately 20% of the Property and Verizon 80%.

The Atlantic Express Bus Property contains three two-story garage bays and three raised warehouse garage bays. The parking lot contains one storm drain near the Harlem River along the western Property boundary, parked buses and vehicles throughout, a dumpster near the eastern most garage bay door and near the southeast fence line, tires and miscellaneous parts near the northeast fence boundary and the Harlem River and railroad tracks to the west.

The Verizon Property contains three raised warehouse garage bays and a two-story office building on the southeastern portion of the Property. The parking lot contains an empty propane cylinder cage, portable generators, personal and work vehicles, two storm drains, two dumpsters, a security booth and miscellaneous equipment.

#### 4.5 Interior Observations

The interior of the Atlantic Express Bus portion of the Property is constructed of concrete floors, painted concrete block walls and a raised metal ceiling. The building is heated via a combination of natural gas burners and electric heaters. Atlantic Express Bus utilizes the Property for the storage of equipment, materials and vehicles, and maintenance and repair of buses. As such, there are typical vehicle maintenance and repair materials and equipment used and stored throughout. Equipment includes numerous portable electric vehicle jacks, two air compressors, and two oxygen tanks. Materials include vehicles tires, four 30-gallon drums of Mobil grease, one 55-gallon drum of transmission fluid, one gallon of Simoniz wax, one 55-gallon drum of Z-100 degreaser, three 55-gallon drums of washer fluid, one 55-gallon drum of general lacquer thinner, one 55-gallon drum of used oil, one 30-gallon drum of Mobil synthetic oil, two 5-gallon buckets of used oil, twenty-nine 5-gallon buckets of Simoniz Alkane all purpose hard surface cleaner, and fifteen used car batteries. All of the drums appeared to be in good condition. Minor petroleum

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staining was identified in each of the garage bays, of which fresh staining was covered with a granular oil absorbent material. A total of two floor drains were identified in the garage bays.

The interior of the Verizon portion of the Property is used for storage of vehicles, equipment, and materials, vehicle repair and office space. The warehouse/vehicle storage area is constructed of concrete floors, painted and unpainted concrete block walls and a raised metal ceiling. Vinyl floor tiles were identified on floor of the second floor mechanics lunchroom and first floor dispatch office. The building is heated via a natural gas burner. A metal grated runoff channel for the collection of runoff water is located in the middle of the warehouse and runs the length of the parking area in the warehouse. The grated runoff channel is connected to an underground oil/water separator tank located near the northeastern portion of the building. Two manhole covers labeled as "monitoring well" are located within approximately 5-feet of the oil/water separator. Inside the manhole covers are two pipes possibly associated with leak detection for the oil/water separator. An active hydraulic vehicle lift is centrally located along the northeast wall of the building. The lift is located within a fenced area containing numerous 55-gallon drums of motor oil, used motor oil, and anti-freeze along with small quantities of spray cans of petroleum base products. In addition, two orange covers were identified west of the hydraulic lift. According to Mr. Mitchell he believes these may be non-activated vehicle lifts. It is unknown if these covers were filled with hydraulic fluid. Two floor drains were identified on the northern portion of the Verizon building in an office/storage area. The boiler room is located near the southeast portion of the building and contains 2 hot water tanks, three floor drains, and a sump pit.

The interior of the Verizon office space consists of painted walls, vinyl floor tiles, carpeting, and drop in ceiling tiles. Typical office equipment, materials and supplies were identified throughout the office.

#### **4.6 Storage Tanks**

Storage tanks, both aboveground and underground, are often used for storing fuel, waste oils, solvents, and other waste and/or potentially hazardous materials. The principal concern from storage tanks is leakage of contents due to corrosion of the tank or associated lines. The leakage may result in migration of the stored material onto the subject and/or neighboring properties via soil migration or underlying shallow groundwater flow. In general, soil and groundwater contaminated by leaks from on-site storage tanks may constitute an environmental or health hazard.

According to a letter provided by the User, in 1991 and 1992 a total of 12 550-gallon underground diesel storage tanks and two 550-gallon underground gasoline storage tanks were abandoned in place by Gaservice, Inc. The tanks were pumped of their contents and then a concrete slurry was pumped into the tanks for proper abandonment. In addition associated product and electrical piping were capped off and four pump dispensers were removed. The vent and fill lines were removed and sealed with concrete. There are no other storage tanks known to have existed on the Property.

#### **4.7 Toxic / Hazardous Materials**

No evidence of the on-site storage or disposal of hazardous materials was observed on the Property with the exception of the previously mentioned petroleum based products used in the routine maintenance and repair of the Atlantic Bus Express buses and Verizon vehicles.

#### **4.8 Proximity to Environmentally Hazardous and/or Sensitive Areas**

The Property is situated within a commercial, industrial, and residential area of the Bronx, New York. The computerized database records (Appendix C) report approximately 127 sites in the categories of government reported sites located in proximity to the Property in accordance with ASTM E 1527-05 minimum search distances. Any locatable sites have been mapped on the



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radius search maps included in Appendix C and are discussed in further detail in Section 6.0 of this Report.

The subject Property is located on the west side of Lincoln Avenue across from 132<sup>nd</sup> Street in the Bronx, New York. The database map indicates that there are no public supply wells located within 1-mile of the Property. There are no bodies of water located on the Property; however, the Harlem River is located only a few feet west of the Property boundary. There are Federal Wetlands mapped within ¼-mile of the Property. The Property is located within a FEMA 100-year flood zone area.

## 5.0 HISTORICAL LAND USE PRACTICES

In order to further determine the past land use and the Property's developed use, historical aerial photographs, historical topographic maps, Sanborn® maps, and Local Directory records were reviewed.

### 5.1 Aerial Photography

The following tables summarize the findings of our review of historical aerial photographs.

Year	Description and Comments
1954	The subject Property appears with a round structure occupying the majority of the site. There are unknown structures located along the southwest portion of the Property near the Harlem River. The areas surrounding the Property are densely developed with a mix of commercial and residential structures. A bridge is located immediately northwest of the Property.
1966	The subject Property does not contain any structures. The areas surrounding the Property appear similar to 1954.
1975	The subject Property appears with a structure that resembles the size and configuration of the present-day structure. The areas surrounding the Property appear similar to 1966.
1984	The subject Property and surrounding areas appear similar to 1975.
1994	The subject Property and surrounding areas appear similar to 1975.

Review of historical aerial photographs revealed that the subject Property was developed with a large round structure in the 1954 aerial photograph. In the 1966 aerial photograph the Property does not contain any structures and then in the 1975 aerial photograph the Property contains a structure that resembles the size and configuration of the present-day structure. The subject Property and surrounding areas have remained relatively unchanged since 1975. The Property is located in a historically densely developed commercial and residential area. Copies of the aerial photographs reviewed for this Report are attached as Appendix D.

**CA RICH ENVIRONMENTAL SPECIALISTS****5.2 Topography**

Topographic map coverage of the Property exists for the years 1897, 1947, 1966, 1979, and 1995. The following table summarizes the findings of the topographic map review.

Year	Description and Comments
1897	The subject Property appears with a structure and is located in an area densely developed with structures.
1947	The subject Property appears with a round structure and located north west of a rail yard. The surrounding areas appear similar to 1897.
1966	The subject Property does not contain any structures. The areas surrounding the Property are denoted as densely populated.
1979	The subject Property appears with a structure that resembles the size and configuration of the present-day structure. The areas surrounding the Property are denoted as densely populated.
1995	The subject Property and surrounding areas appear similar to 1979.

Review of the historical topographic maps dating back to 1897 indicates that the Property was developed prior to 1897. In 1947 the Property appears with a round structure and in 1966 the Property does not contain any structures. In 1979 the Property contains a structure that resembles the size and configuration of the present-day structure. The Property appears in an area denoted as densely populated in 1979. A copy of each topographic map is attached to this report as Appendix D.

**5.3 Sanborn Fire Insurance Mapping**

Microfilm collections of fire insurance maps available through the Library of Congress, University Publications of America, and various public local sources were searched for local area coverage. Sanborn Maps are detailed maps that show the lot configuration and improvements and may contain information regarding historical ownership, land use, and hazardous or regulated materials storage. The 1891 Sanborn Map is the only map containing information for properties located southeast of Lincoln Avenue. The following table summarizes the findings of the Sanborn Maps review.

Year	Description and Comments
1891	The subject Property is identified as containing building materials (Bell & Son), sand, North and East River Steamboat Co., coal yard, livery stable, and Ice Co., yard. These businesses line the perimeter of the Property along Lincoln Avenue and Southern. To the northeast, across Southern, is a cabinet factory, mousing mill, railway car and stables, stone yard, and Morrisania and Fordham. To the south, across Lincoln Avenue, is the New York, New Haven, and Hartford Rail Road Co., Freight Depot and ice house. To the southeast is a manufacturing establishment with stores below. To the east is a piano factory and New York Woodworking. The Harlem Bridge is located northwest of the Property and the Harlem River lines the southwestern Property boundary.
1908	The subject Property is identified as Central Rail Road of New Jersey, Bronx Freight Terminal. The Property contains a railroad turntable and a float near the southwestern portion of the Property along the Harlem River. To the northeast, across E. 133 <sup>rd</sup> Street (previously named Southern), is the Union Railway Co. store yard, auto building, a hotel, contractor office, and a mixed used store/dwelling building. The Third Avenue Bridge is located to the northwest.


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1935	The subject Property appears similar to 1908; however, a coal shed and locomotive house are depicted. The areas surrounding the Property are primarily commercial businesses. Most notable of these are the AV Rail Road System which contains a 275-gallon gas tank, a private garage containing a gasoline tank, and an auto house containing a 275-gallon buried gasoline tank. These tanks are located northeast of the Property. In addition, E. 133 <sup>rd</sup> Street is now identified as Bruckner Boulevard.
1944	The subject Property and surrounding areas appear similar to 1935; however, an auto body builder is identified to the northeast.
1946	The subject Property and surrounding areas appear similar to 1944; however, the gasoline tank identified at the auto house in 1935 is not depicted. In addition, the auto house is now identified as a private garage.
1947	The subject Property appears similar to 1946; however, the coal shed is not depicted. The areas surrounding the Property also appear similar, however, the gasoline tank identified at the AV Rail Road System is not depicted and in its place is oil storage.
1951	The subject Property and surrounding areas appear similar to 1947.
1968	The subject Property is identified as Gerosa Haulage Corp and resembles the size and configuration of the present-day building. The Property contains a storage yard, crane repair, paint shop, crane paint shop, blacksmith shop, garage repair shop, and an office. The surrounding areas appear similar to 1951; however, an auto repair shop is identified northeast of the Property on E. 134 <sup>th</sup> Street and Lincoln Avenue.
1969	The subject Property and surrounding areas appear similar to 1968.
1977	The subject Property and surrounding areas appear similar to 1968; however, the Property now contains a warehouse.
1978, 1980, 1981, 1984, 1986, 1989, 1991, 1992, 1993, 1994, 1995, and 1996	The subject Property and surrounding areas appear similar to 1977 and have undergone relatively little change.

Review of the historical Sanborn Maps dating back to 1891 indicates that the Property was developed sometime before 1891. From 1908 to 1951 the Property is identified as containing the New Jersey Central Rail Bronx Freight. From 1968 to 1996 the Property is identified as Gerosa Haulage Corporation and contains a building that resembles the size and configuration of the present-day building. A copy of each Sanborn Map is attached to this report as Appendix D.

**CA RICH ENVIRONMENTAL SPECIALISTS****5.4 Local Directory**

CA RICH conducted a review of available Local Directory records for the subject Property.

Year	Description and Comments
1927, 1931, 1940, 1949, 1956, and 1961	Address is not listed in the research source.
1965	McKinney Caraw L and Masia Philip.
1971	Gerosa Crane Service, Co. Inc. Gerosa Haulage and Warehouse Corp.
1976 and 1983	Gerosa Crane Service, Co. Inc. Gerosa Incorporated
1993	Gerosa Crane Service, Co. Inc. Gerosa Inc. Bronx Gerosa Robert L. Inc.
2000	Felix Industries Gerosa Inc.
1993	Gerosa Inc.

The address is not listed for the subject Property from 1927 to 1961. In 1965 the address is listed with two names. From 1971 to 2005 the Property is listed under the Gerosa name. The areas surrounding the Property appear to be used for residential and commercial purposes. Most notably the Harlem Coal Body Service Company (1949) and Peerless Iron Works (1940 and 1949) were located at 86 Lincoln Avenue. A copy of the City Directory is attached as Appendix E.

**6.0 ENVIRONMENTAL RECORDS REVIEW**

This Section discusses database records maintained by Federal, State and local environmental agencies for the Property and for sites located within an approximate minimum search distance. Available information was compiled from computerized database sources of regulatory agency records. The purpose of this database records review is to help assess the likelihood of problems from migrating hazardous substances or petroleum products. The minimum search distances are specified within ASTM Practice E 1527-05.

The database searches were conducted by EDR at the request of CA RICH on September 11, 2007 (Inquiry Number: 2025257). The existence of an actual toxic hazard at a specific site can be concluded only when government authorities make that determination or when that conclusion is fully documented by the findings of an appropriate site investigation undertaken by licensed professionals.

The resulting database information is briefly summarized below. Complete copies of the database report and radius maps are included in Appendix C. Additional site-specific information was requested elsewhere by CA RICH under the provisions of the Freedom of Information Law (FOIL).

**6.1 Federal**

The number of ASTM federally listed database sites identified in proximity to the Property is tabulated below. The search categories and database review findings are discussed in greater detail below the summary table.

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Federal ASTM Database Search Category	Approx. Minimum Search Distance	Subject Property	Total Sites Plotted
EPA National Priority List Sites (NPL)	1.0 miles	Not identified	0
EPA DELISTED NPL	1.0 miles	Not identified	0
EPA CERCLIS Sites	0.5 miles	Not identified	0
EPA CERCLIS-NFRAP	0.5 miles	Not identified	0
CORRACTS	1.0 miles	Not identified	0
RCRIS-TSD	0.5 miles	Not identified	0
RCRIS Lg. Quan. Gen.	0.25 miles	Not identified	0
RCRIS Sm. Quan. Gen.	0.25 miles	Identified	1
ERNS	TP	Not identified	0
FINDS	TP	Identified	0
CONSENT	1.0 miles	Not identified	0
ROD	1.0 miles	Not identified	0
US ENG CONTROLS	0.5 miles	Not identified	0
US INST ENG CONTROL	0.5 miles	Not identified	0

◆ **EPA Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), National Priorities List (NPL)**

The CERCLIS list is a compilation by the USEPA of sites that the USEPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), commonly known as the Superfund Act.

Once sites are designated on the CERCLIS list, the USEPA uses its Hazard Ranking System to determine potential risks to human health and the environment. Those CERCLIS sites that present the greatest risk are placed on the National Priority List (NPL), which qualifies the sites to receive remedial funding.

The subject Property was not identified as a CERCLIS or NPL site and there are no CERCLIS or NPL sites located within the approximate search radius of the Property.

◆ **Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP)**

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was quickly removed without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat these investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens promote economic redevelopment of unproductive urban sites.

The subject Property is not identified as a CERCLIS-NFRAP site and there are no CERCLIS-NFRAP sites located within the approximate search radius from the Property.

**CA RICH ENVIRONMENTAL SPECIALISTS**

◆ **Delisted National Priority List (Delisted NPL)**

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425. (e), sites may be deleted from the NPL where no further response is appropriate.

The subject Property does not appear as a Delisted NPL site and there are no Delisted NPL sites located within the approximate search radius from the Property.

◆ **Corrective Action Activity (CORRACTS)**

CORRACTS is a list of handlers with RCRA Corrective Action Activity. It reports which nationally defined corrective action core events have occurred for every handler that has had a corrective action activity.

The subject Property is not identified as a CORRACTS site and there are no CORRACTS sites located within the approximate search radius from the Property.

◆ **Resource Conservation and Recovery Act (RCRA) (RCRIS-TSD)  
Large and Small Quantity Generators (LQG/SQG)**

RCRA was enacted to regulate facilities that generate, store, transport, or dispose of hazardous waste. These facilities must file notification forms with the EPA, which maintain the records in the RCRA Information System (RCRIS) Notifiers database. Inclusion on the RCRIS list does not signify contamination or mishandling of hazardous materials by hazardous waste Notifiers. RCRIS-listed sites are not indicative of an environmental concern unless an actual hazard is known to exist.

The subject Property is listed as an SQG and there is one SQG located within the search radius of the subject Property identified as Michael Angelo Co. Database records indicate that the subject Property and Michael Angelo Co. do not have outstanding violations and is in compliance with Federal regulations.

◆ **Emergency Response Notification System (ERNS)**

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. Pursuant to the ASTM Practice E 1527-05, the ERNS database is searched only for the subject Property.

The subject Property is not identified in the U.S. EPA ERNS database.

◆ **Facility Index System/Facility Identification Initiative Program Summary Report (FINDS)**

The Facility Index System (FINDS) contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

The subject Property is identified in the U.S. EPA FINDS database due to its RCRIS-SQG status (see RCRIS in Section 7.1).

**RICH ENVIRONMENTAL SPECIALISTS****◆ Records of Decision (ROD)**

ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid cleanup.

There have been no RODs documented for the subject Property and there are no ROD sites, located within the approximate search radius from the Property.

**◆ EPA CERCLIS Consent Order**

A signed Order on Consent signifies major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites.

There have been no Federal Consent Orders signed with respect to the subject Property. There are no documented Federal Consent Orders reported within the approximate search radius from the Property.

**◆ US Engineering (ENG) Controls**

The US Engineering Controls Site List is a listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

There are no documented Engineering Controls listed for the subject Property and there are no Engineering Controls identified within the approximate search radius from the Property.

**◆ US Institutional (INST) Controls**

The US Institutional Controls List is a listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

There are no documented Institutional Controls listed for the subject Property and there are no Institutional Controls identified within the approximate search radius from the Property.

# Gaservice

## Maintenance Corporation

*The Tank People*

1616 Bronxdale Avenue, Bronx, N. Y. 10462  
(212) 792-4300

PETROLEUM STORAGE  
AND DISPENSING SYSTEMS

LICENSED ELECTRICAL  
CONTRACTORS

ENVIRONMENTAL  
INSTALLATION

SERVICE STATION MAINTENANCE



SEPTEMBER 5, 1991

Mr. Frank Gerosa  
Gerosa, Inc.  
101 Lincoln Ave.  
Bronx, N.Y.

Re: T.E.P. Analysis  
14-550 gallon tanks

Dear Mr. Gerosa:

On Tuesday, July 16, 1991, we performed a "Tank Environmental Profile" (TEP) analysis of the 12-550 gallon diesel and 2-550 gallon gasoline underground tanks located at your facility. The analysis consisted of the following three main parts:

- 1) Measuring soil to tank voltage potentials for each tank.
- 2) Measuring soil resistivity.
- 3) Collecting and analyzing soil samples at various locations around the tank field.

After completing the above procedures, all information and samples were sent to the "ILFC" testing laboratory, who are the originators of the TEP analysis. Their finding and recommendations are enclosed with this report.

The following summarizes their findings:

- The tanks are in fairly good condition with regard to overall corrosion.
- The soil resistivity is relatively low, and the moisture content and soil microbe count are fairly high, all of which could lead to an increase in corrosion and therefore a shorter tank life.
- There exists some aged diesel fuel contamination in all holes sampled, as shown on the site map (amounts range from 69 ppm to 246 ppm). Lab tests showed that the diesel contamination has been present for some time, and does not seem to be a recent or recurring problem.

Based on all information obtained and soil analyses performed, we can form the following conclusions:



TEP SITE ANALYSIS: PLOT OF HALF-CELL READINGS AND HYDROCARBON ANALYSIS RESULTS

LEGEND

ppm HYDROCARBONS

(No) HOLE NUMBER

HALF CELL READINGS

Note: Reported as:

TPH ppm

pH: 9.22

Soil Resistivity in ohm-cm

5 feet 4,320

10' 9,456

20' 4,224

Moisture content: 14.5%

Soil microbe count:

100,000/ML

BTEX <MDL

TPH 69ppm

@3' (3)

TK #6 -.530V

TK #7 -.550V

TPH 246ppm

@6' (2)

TK #4 -.470V

TK #5 -.460V

TPH 139ppm

@3' (1)

TK #1 -.558V

TK #2 -.555V

TK #3 -.560V

TK #7  
550 GAL  
Gasoline

TK #6  
550 GAL  
Diesel

TK #5  
550 GAL  
Diesel

TK #4  
550 GAL  
Diesel

TK #3  
550 GAL  
Diesel

TK #2  
550 GAL  
Diesel

TK #1  
550 GAL  
Diesel

TK #14  
550 GAL  
Gasoline

TK #13  
550 GAL  
Diesel

TK #12  
550 GAL  
Diesel

TK #11  
550 GAL  
Diesel

TK #10  
550 GAL  
Diesel

TK #9  
550 GAL  
Diesel

TK #8  
550 GAL  
Diesel

TK #14 -.475V

TK #13 -.554V

@3' (6)

TPH 131ppm

TK #12 -.505V

TK #11 -.515V

@6' (7)

TPH 84ppm

TK #10 -.520V

TK #9 -.505V

TK #8 -.504V

@3' (8)

TPH 134ppm

Drawing No. 91-2Gasery

Drawn by: F.K.

Date: 7-25-91

CLIENT

Gaservice Maintenance Corp.  
1616 Bronxdale Avenue  
Bronx, NY 10462

SITE:

Gerco Inc.

DATE ON SITE: 7-17-91

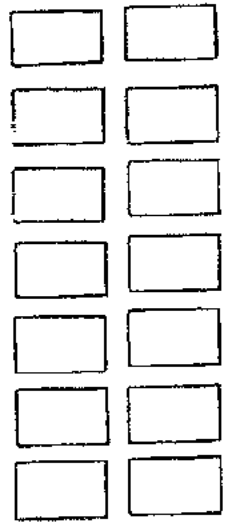
DATE OF ANALYSIS: 7-23-91

STORAGE  
BUILDING &  
OFFICES

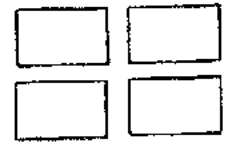
GEROSA, INC.  
101 LINCOLN AVE.  
BRONX, N.Y.  
SIEMENS 14-5506

14-VERTS

2-550 GAL.  
GASOLINE  
TANKS



12-550G.  
DIESEL  
TANKS



0 0 FILLS

2-PUMPS



PUMP



PUMP



# Gaservice Maintenance Corporation

The Tank People

1616 Bronxdale Avenue, Bronx, N. Y. 10462  
(212) 792-4300

PETROLEUM STORAGE  
AND DISPENSING SYSTEMS

LICENSED ELECTRICAL  
CONTRACTORS

SIGN INSTALLATION

SERVICE STATION MAINTENANCE



DECEMBER 23, 1991

Mr. Eugene Sullivan  
N.Y.S.D.E.C.  
47-40 21st Street  
Long Island City, N.Y. 11101

Certified Mail P-373-035-979

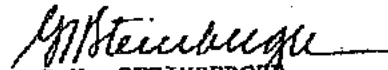
Re: Gerosa Inc.  
101 Lincoln Ave.  
Bronx, N.Y.  
Tank Abandonment

Dear Mr. Sullivan:

This is to inform you that at Gerosa Inc., located at 101 Lincoln Ave., Bronx, New York, we permanently abandoned 12-550 gallon diesel and 2-550 gallon gasoline tanks with a concrete slurry. The tanks had been properly purged of all product and vapors before being filled with concrete. The fills, vent lines, product and electrical lines were removed to below grade and sealed with concrete.

A soil analysis was performed, and upon receipt, a copy of the results will be forwarded to you.

Sincerely,

  
G.H. STEINBERGER  
General Manager

STORAGE  
BUILDING &  
OFFICES

GEROSA, INC.  
101 LINCOLN AVE.

2-550 GAL.  
GASOLINE  
TANKS

12-550 G.  
DIESEL  
TANKS

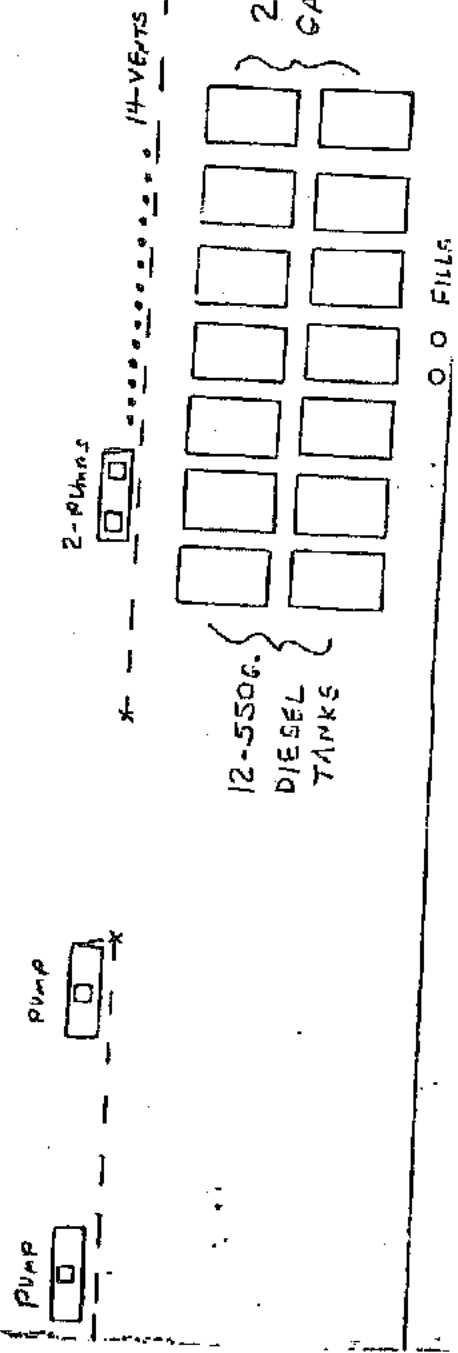
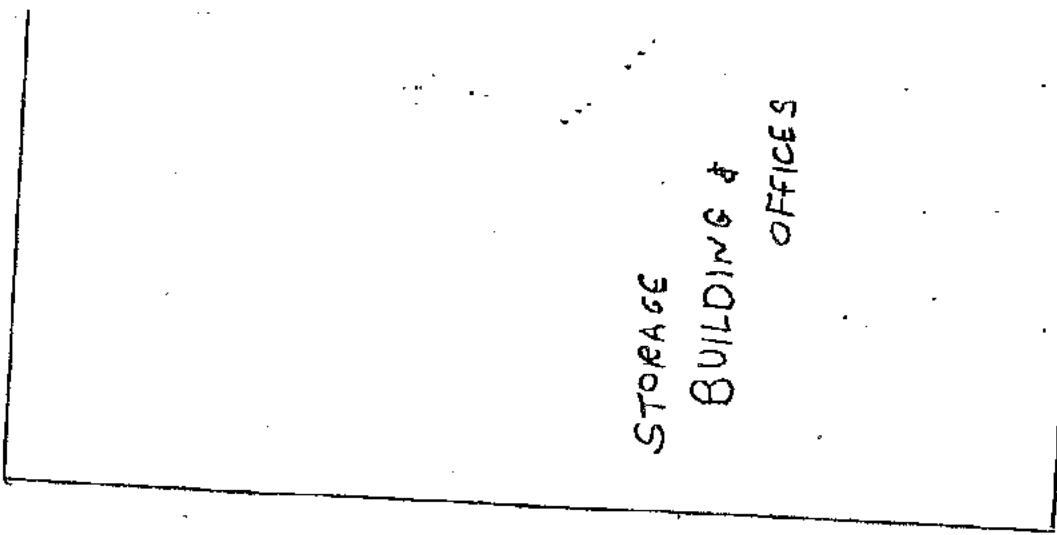
2-PUMPS

PUMP

PUMP

14-VERTS

0 0 FILLS



# Gaservice Maintenance Corporation

The Tank People

1616 Bronxdale Avenue, Bronx, N. Y. 10462  
(212) 792-4300

PETROLEUM STORAGE  
AND DISPENSING SYSTEMS

LICENSED ELECTRICAL  
CONTRACTORS

WELDN INSTALLATION

SERVICE STATION MAINTENANCE



### SEAL AFFIDAVIT

Certified Mail # P 373-035-980

Fire Dept. - City of New York  
Bureau of Fire Prevention  
250 Livingston St.  
Brooklyn, N.Y. 11201

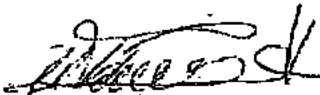
Re: Gerosa Inc.  
101 Lincoln Ave.  
Bronx, N.Y.

This is to certify that Gaservice Maintenance Corp., of 1616 Bronxdale Ave., Bronx, N.Y.

During the week of December 9, 1991, we permanently abandoned 12-550 gallon diesel and 2-550 gallon gasoline tanks, at the above-referenced location, with concrete slurry. The tanks had been properly purged of all product and de-fumed.

Four dispensers were removed and all product and electrical lines capped off and sealed below grade. The vents and fills were removed and sealed with concrete. All openings were sealed with concrete.

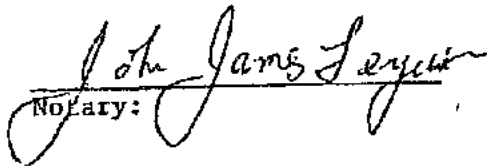
A soil boring analysis was performed, the results of which will be forwarded to the N.Y.S.D.E.C. and the owner.

  
\_\_\_\_\_  
WILLIAM H. GELLES, Jr.  
License # 210

NOTARY:  
State of New York  
County of the Bronx

Sworn to before me

This 24 of December 1991

  
Notary:

JOHN JAMES FERGUSON  
Notary Public, State of New York  
No. 48-73824  
Qualified in Westchester County  
Commission Expires JAN 30, 1992

# Gaservice Maintenance Corporation The Tank People

1616 Bronxdale Avenue, Bronx, N. Y. 10462  
(212) 792-4300

PETROLEUM STORAGE  
AND DISPENSING SYSTEMS

LICENSED ELECTRICAL  
CONTRACTORS

SIGN INSTALLATION

SERVICE STATION MAINTENANCE



### AFFIDAVIT

Fire Dept. City of New York  
Bureau of Fire Prevention  
250 Livingston St.  
Brooklyn, N.Y. 11201

Re: Gerosa Inc.  
101 Lincoln Ave.  
Bronx, N.Y. 10454

This is to certify that Gaservice Maintenance Corp., of 1616 Bronxdale Ave., Bronx, N.Y.

On March 18, 1992, we excavated and partially uncovered 1-1000 gallon motor oil and 1-1000 gallon waste oil tanks. The tanks were cut open and vacuum-cleaned, and all oil removed was legally disposed of. The tanks were then permanently abandoned by filling with a concrete slurry mix.

The tank fills, vents, and all openings were also sealed with concrete.

A soil sample was performed, and the results will be forwarded to the owner.

NOTARY:  
State of New York  
County of the Bronx

Sworn to before me

This 26 day of March 1992

John James Ferguson  
Notary:

Gaservice Maintenance Corp.

William H. Gelles, Jr.  
William H. Gelles, Jr.  
License #210

JOHN JAMES FERGUSON  
Notary Public, State of New York  
No. 46-73824  
Qualified in Westchester County  
Commission Expires JUNE 30, 1992

# Proposal

Page No.      of      Pages

**GASERVICE MAINTENANCE CORP.**  
 1616 Bronxdale Avenue  
 BRONX, NEW YORK 10462  
 (212) 792-4300

PROPOSAL SUBMITTED TO <b>Mr. Bob Gerosa / Gerosa Inc.</b>		PHONE	DATE <b>1/20/92</b>
STREET <b>101 Lincoln Ave.</b>		JOB NAME <b>Gerosa Inc.</b>	
CITY, STATE and ZIP CODE <b>Bronx, N.Y. 10454</b>		JOB LOCATION <b>101 Lincoln Ave.</b>	
ARCHITECT	DATE OF PLANS	<b>Bronx</b>	JOB PHONE

**We Propose** hereby to furnish material and labor — complete in accordance with specifications below, for the sum of:

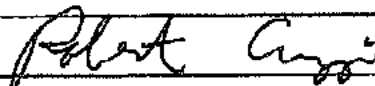
**Five Thousand dollars and .00 plus TAX** dollars (\$ **5000.00 + TAX** ).

Payment to be made as follows:

**50% Upon contract signing, 50% upon completion of work.**

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from specifications below involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature



Note: This proposal may be withdrawn by us if not accepted within **30** days.

We hereby submit specifications and estimates for:

Dear Bob Gerosa:

This proposal includes the following work which needs to be performed to properly and legally abandon the 550 gallon motor oil and 550 gallon waste oil tanks, located at your facility:

- 1- Saw cut and remove two patches of concrete over waste oil and motor oil tanks.
- 2- Cut open both tanks, clean out and dispose of all tank bottoms.
- 3- Properly abandon both tanks with concrete slurry as per N.Y.S.D.E.C. requirements
- 4- Backfill excavated areas and re-pave concrete.
- 5- Perform soil analysis (1-boring) of tank area.

If you have any questions, please let us know. We will contact you to schedule a date to proceed with the project.

Sincerely,

  
 Robert Cuzzi  
 Operations Manager

Note: Any underground utilities, including electric, water, and sewer lines, are excluded from this contract.

# Gaservice Maintenance Corporation

The Tank People

1616 Bronxdale Avenue, Bronx, N.Y. 10462  
(212) 792-4300

GEROSA  
101 LINCOLN AVENUE  
BRONX, N.Y. 10454  
MR. BOB GEROSA

DATE 3/23/92  
YOUR ORDER NO. 3. GEROSA  
OUR INVOICE NO. MM1033 01750

GEROSA INC.  
101 LINCOLN AVENUE  
BRONX, N.Y.

### TAXABLE INVOICE

3/18/92

THE FOLLOWING WORK WAS PERFORMED TO PROPERLY & LEGALLY  
ABANDON 1-1,000 GALLON MOTOR OIL AND 1-1,000 GALLON  
WASTE OIL TANKS :

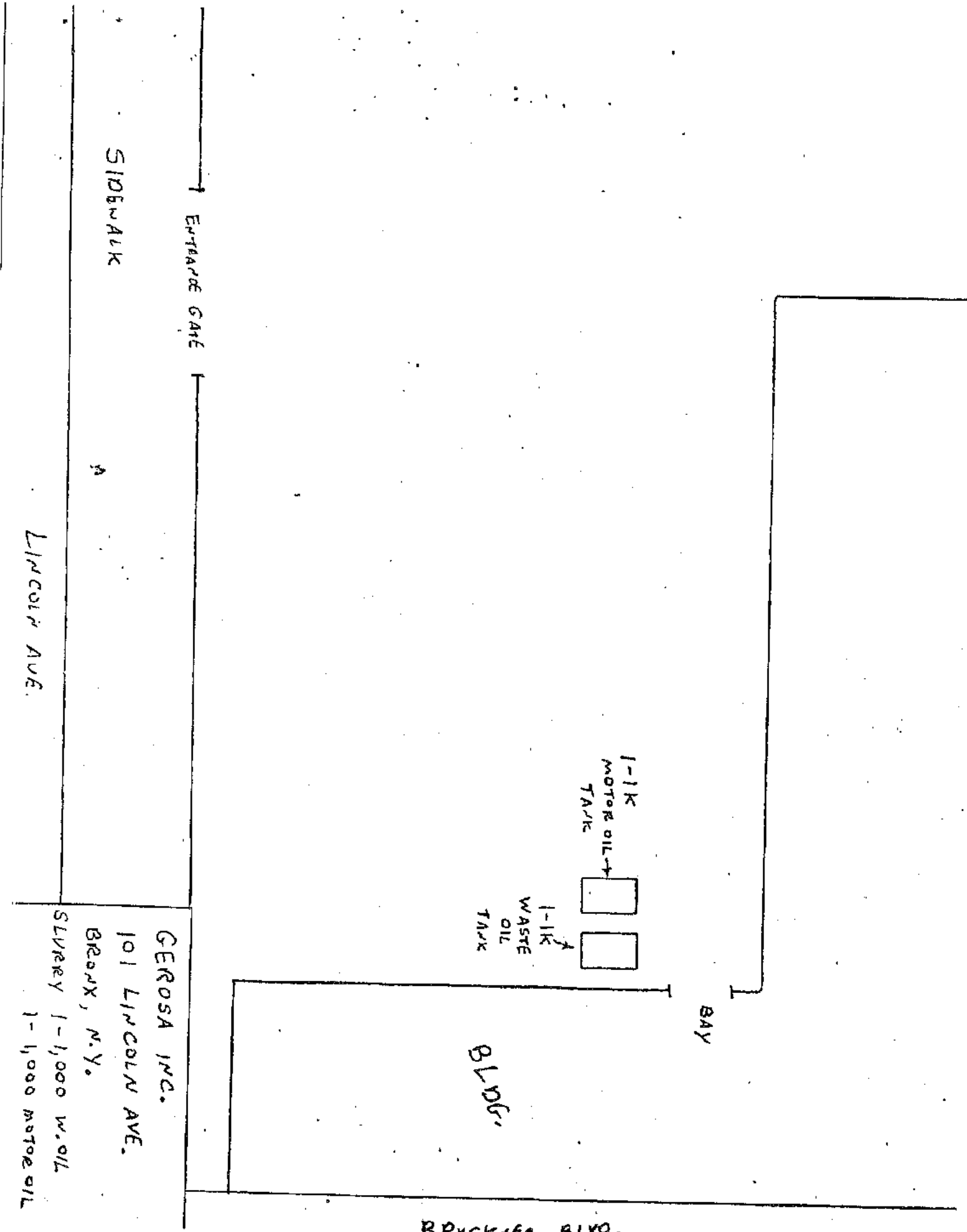
- EXCAVATED AND UNCOVERED 1-PATCH OVER EACH TANK
- CUT OPEN BOTH TANKS, HIRED VACUUM TRUCK TO CLEAN OUT BOTH
- PERMANENTLY ABANDONED BOTH TANKS WITH A CONCRETE SLURRY, AS PER N.Y.S. D.E.C. REQUIREMENTS
- BACKFILLED AND RE-PAVED EXCAVATED AREAS
- PERFORMED ONE SOIL ANALYSIS OF TANK AREA (RESULTS TO BE FURNISHED TO OWNER)

AGREED CONTRACT PRICE	5,000.00
EXTRA CONCRETE CHARGE DUE TO 2-TANKS BEING 1,000 GALLON EACH VERSUS 550 GALLONS. 5 YARDS @ \$ 80/YARD	400.00

VOUCHER No.	43064
ACCT. No.	4669
DATE PAID	3/26/92
CHECK No.	25156
AMT.	5845.50

INVOICE SUBTOTAL	5,400.00
8.25 % TAX	445.50
<b>INVOICE TOTAL</b>	<b>5,845.50</b>





SIDEWALK

ENTRANCE GATE

LINCOLN AVE.

1-1K  
MOTOR OIL  
TANK

1-1K  
WASTE  
OIL  
TANK

BAY

BLVD.

RUCKER BLVD.

GEROSA INC.  
101 LINCOLN AVE.  
BRONX, N.Y.

SLURRY 1-1,000 W.OIL  
1-1,000 MOTOR OIL

## **APPENDIX D**

### **Environmental Data Resources Inc. <sup>TM</sup> Report**

**101 Lincoln Avenue**

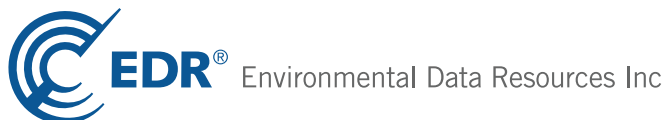
101 Lincoln Avenue

Bronx, NY 10454

Inquiry Number: 3910510.2s

April 14, 2014

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

#### Disclaimer - Copyright and Trademark Notice

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

101 LINCOLN AVENUE  
BRONX, NY 10454

#### COORDINATES

Latitude (North): 40.8076000 - 40° 48' 27.36"  
Longitude (West): 73.9308000 - 73° 55' 50.88"  
Universal Transverse Mercator: Zone 18  
UTM X (Meters): 590185.5  
UTM Y (Meters): 4517737.5  
Elevation: 5 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 40073-G8 CENTRAL PARK, NY NJ  
Most Recent Revision: 1995

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2010, 2011  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
FELIX INDUSTRIES 101 LINCOLN AVE BRONX, NY	RCRA NonGen / NLR FINDS	NY0001415264
VERIZON NEW YORK INC. (NY90513) 101 LINCOLN AVENUE BRONX, NY 10454	NY UST	N/A
SPILL NUMBER 0304688 101 LINCOLN AVE BRONX, NY	NY Spills Spill Number/Closed Date: 0304688 / 8/4/2003	N/A
LOT 1,TAXBLOCK 2316 101 LINCOLN AVENUE BRONX, NY 10454	NY E DESIGNATION	N/A

## EXECUTIVE SUMMARY

GEROSA, INC 101 LINCOLN AV BX, NY 10454	NY HIST UST	N/A
VERIZON NEW YORK INC. (NY90513) 101 LINCOLN AVENUE BRONX, NY 10454	NY AST	N/A
CON EDISON F/O 101 LINCOLN AVE BRONX, NY 10454	NY MANIFEST	N/A

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
FEDERAL FACILITY..... Federal Facility Site Information listing

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List

## EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls  
LUCIS..... Land Use Control Information System

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State and tribal leaking storage tank lists***

NY HIST LTANKS..... Listing of Leaking Storage Tanks  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

NY TANKS..... Storage Tank Facility Listing  
NY CBS UST..... Chemical Bulk Storage Database  
NY MOSF UST..... Major Oil Storage Facilities Database  
NY CBS AST..... Chemical Bulk Storage Database  
NY MOSF AST..... Major Oil Storage Facilities Database  
NY CBS..... Chemical Bulk Storage Site Listing  
NY MOSF..... Major Oil Storage Facility Site Listing  
INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### ***State and tribal institutional control / engineering control registries***

NY RES DECL..... Restrictive Declarations Listing

### ***State and tribal voluntary cleanup sites***

NY VCP..... Voluntary Cleanup Agreements  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

NY ERP..... Environmental Restoration Program Listing

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
NY SWTIRE..... Registered Waste Tire Storage & Facility List  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

### ***Local Lists of Hazardous waste / Contaminated Sites***

US CDL..... Clandestine Drug Labs  
NY DEL SHWS..... Delisted Registry Sites

## EXECUTIVE SUMMARY

US HIST CDL..... National Clandestine Laboratory Register

### **Local Land Records**

LIENS 2..... CERCLA Lien Information  
NY LIENS..... Spill Liens Information

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
NY Hist Spills..... SPILLS Database  
NY SPILLS 80..... SPILLS 80 data from FirstSearch

### **Other Ascertainable Records**

DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
US MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
RAATS..... RCRA Administrative Action Tracking System  
RMP..... Risk Management Plans  
NY HSWDS..... Hazardous Substance Waste Disposal Site Inventory  
NY UIC..... Underground Injection Control Wells  
NY DRYCLEANERS..... Registered Drycleaners  
NY SPDES..... State Pollutant Discharge Elimination System  
NY AIRS..... Air Emissions Data  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
NY COAL ASH..... Coal Ash Disposal Site Listing  
LEAD SMELTERS..... Lead Smelter Sites  
2020 COR ACTION..... 2020 Corrective Action Program List  
EPA WATCH LIST..... EPA WATCH LIST  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
US FIN ASSUR..... Financial Assurance Information  
PRP..... Potentially Responsible Parties

### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### **Exclusive Recovered Govt. Archives**

NY RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List



# EXECUTIVE SUMMARY

NY RGA LF..... Recovered Government Archive Solid Waste Facilities List

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal RCRA generators list***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/11/2014 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>NYCDOT - WILLIS AVENUE BRIDGE</i></b>	<b><i>2602 2ND AVE</i></b>	<b><i>SSW 1/8 - 1/4 (0.175 mi.)</i></b>	<b><i>P113</i></b>	<b><i>207</i></b>
CON EDISON - GAS MAIN EXCAVATI	EAST 132ND ST. & PARK A	WNW 1/8 - 1/4 (0.247 mi.)	AC176	400

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/11/2014 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PROSTRIP WOOD FINISHERS INC	2417 THIRD AVE	N 0 - 1/8 (0.041 mi.)	D40	89
BRUCKNER VENTURES LLC	20 BRUCKNER BLVD	E 0 - 1/8 (0.047 mi.)	C46	101
UNITED PARCEL SERVICE INC	247 E 136TH ST	NNE 1/8 - 1/4 (0.159 mi.)	K101	189
<b><i>NEW YORK AUTO MALL SITE</i></b>	<b><i>2485-2495 2ND AVE - EAS</i></b>	<b><i>SW 1/8 - 1/4 (0.211 mi.)</i></b>	<b><i>R133</i></b>	<b><i>255</i></b>

## EXECUTIVE SUMMARY

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/11/2014 has revealed that there are 15 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON MANHOLE: 17444	E 134TH ST & LINCOLN AV	ENE 0 - 1/8 (0.057 mi.)	C53	111
CON EDISON MANHOLE: 17445	E 134TH ST & LINCOLN AV	ENE 0 - 1/8 (0.057 mi.)	C54	112
CON EDISON MANHOLE: 23955	E 132ND ST & ALEXANDER	SE 1/8 - 1/4 (0.129 mi.)	M85	153
CON EDISON	E 134TH ST & ALEXANDER	E 1/8 - 1/4 (0.142 mi.)	L91	167
CON EDISON MANHOLE: 6224	E 135TH ST & RIDER AVE	N 1/8 - 1/4 (0.150 mi.)	N96	179
CON EDISON MANHOLE: 39273	E 131ST & LEXINGTON AVE	W 1/8 - 1/4 (0.162 mi.)	O102	191
CON EDISON	E 128TH ST & 2ND AVE	SSW 1/8 - 1/4 (0.175 mi.)	P111	199
CON EDISON	E 130TH ST & LEXINGTON	W 1/8 - 1/4 (0.182 mi.)	O116	229
CON EDISON	E 128TH ST & 3RD AVE	SW 1/8 - 1/4 (0.205 mi.)	R129	243
CON EDISON	LEXINGTON AVE & W 129TH	W 1/8 - 1/4 (0.213 mi.)	T142	332
<b>MTA NYCT - 2ND AVE SUBWAY 128T</b>	<b>2485 2ND AVE</b>	<b>SSW 1/8 - 1/4 (0.214 mi.)</b>	<b>U144</b>	<b>334</b>
CON EDISON	E 127ST & 2ND AVE	SSW 1/8 - 1/4 (0.215 mi.)	U149	342
CON EDISON MANHOLE: 14513	E 137TH ST & RIDER AVE	NNE 1/8 - 1/4 (0.231 mi.)	Z161	370
CON EDISON MANHOLE: 31104	E 135 ST & PARK AVE	N 1/8 - 1/4 (0.246 mi.)	W168	393
CON EDISON MANHOLE: 20703	EXTERIOR ST & E 135TH S	NNW 1/8 - 1/4 (0.248 mi.)	AD180	406

### **State- and tribal - equivalent CERCLIS**

NY SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the NY SHWS list, as provided by EDR, and dated 02/17/2014 has revealed that there are 4 NY SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VISTA 1	2401 THIRD AVENUE	N 0 - 1/8 (0.017 mi.)	D28	64
RIDER AVENUE GAS STATION	250 EAST 138TH STREET	NNE 1/4 - 1/2 (0.276 mi.)	AF197	458
2568 PARK	2568 PARK AVENUE	NNE 1/4 - 1/2 (0.357 mi.)	209	500
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>2350 FIFTH AVENUE CORP</b>	<b>2350 5TH AVE</b>	<b>NNW 1/2 - 1 (0.634 mi.)</b>	<b>236</b>	<b>584</b>
Class Code: Significant threat to the public health or environment - action required.				

## EXECUTIVE SUMMARY

NY VAPOR REOPENED: "Vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which releases vapors into the pore spaces in the soil. Improvements in analytical techniques and knowledge gained from site investigations in New York and other states has led to an increased awareness of soil vapor as a medium of concern and of the potential for exposures from the soil vapor intrusion pathway. Based on this additional information, New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

A review of the NY VAPOR REOPENED list, as provided by EDR, and dated 02/17/2014 has revealed that there is 1 NY VAPOR REOPENED site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>2350 FIFTH AVENUE CORP</b>	<b>2350 5TH AVE</b>	<b>NNW 1/2 - 1 (0.634 mi.)</b>	<b>236</b>	<b>584</b>

### **State and tribal landfill and/or solid waste disposal site lists**

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 12/12/2013 has revealed that there are 4 NY SWF/LF sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WMNY LLC HARLEM RIVER YARD</b>	<b>98 LINCOLN AVENUE</b>	<b>E 0 - 1/8 (0.007 mi.)</b>	<b>B20</b>	<b>48</b>
PETRO RECYCLING LLC (290EAST 1	290 EAST 132 STREET	SE 0 - 1/8 (0.070 mi.)	G65	125
YOUNG CONTRACTING CORP.	2501 THIRD AVENUE	NE 1/8 - 1/4 (0.185 mi.)	Q119	233
<b>CON ED - EXTERIOR ST STORAGE Y</b>	<b>281 EXTERIOR ST</b>	<b>N 1/4 - 1/2 (0.472 mi.)</b>	<b>228</b>	<b>567</b>

### **State and tribal leaking storage tank lists**

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 02/17/2014 has revealed that there are 48 NY LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AMES MEDICAL EQUIPMENT Spill Number/Closed Date: 0108613 / 12/4/2001	2417 3RD AV	N 0 - 1/8 (0.041 mi.)	D38	84
<b>SPILL NUMBER 0108616</b> Spill Number/Closed Date: 0108616 / 3/29/2004	<b>225 EAST 134TH ST</b>	<b>N 0 - 1/8 (0.070 mi.)</b>	<b>E63</b>	<b>120</b>
OTERO, 128TH & 2ND Spill Number/Closed Date: 8600789 / 5/1/1986	2ND AVE / 128TH ST	SSW 1/8 - 1/4 (0.180 mi.)	P115	228
<b>MANHATTAN EAST 10 DOS -DDC</b> Spill Number/Closed Date: 9709777 / Not Reported Spill Number/Closed Date: 0106036 / 9/23/2003	<b>110 EAST 131ST STREET</b>	<b>WNW 1/8 - 1/4 (0.213 mi.)</b>	<b>S140</b>	<b>315</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SPILL NUMBER 9808791 Spill Number/Closed Date: 9808791 / 10/15/1998	75 CANAL ST	N 1/8 - 1/4 (0.216 mi.)	W152	345
<b>MITCHELL HOUSES -NYCHA</b> Spill Number/Closed Date: 9802631 / 6/1/1998	<b>205-207 ALEXANDER AVE</b>	<b>ENE 1/8 - 1/4 (0.234 mi.)</b>	<b>AA164</b>	<b>378</b>
126TH BUS DEPOT Spill Number/Closed Date: 9903002 / 12/27/2000	246 SECOND AVENUE	S 1/8 - 1/4 (0.247 mi.)	X170	395
EXXONMOBIL Spill Number/Closed Date: 9103104 / 8/2/1993 Spill Number/Closed Date: 8909669 / Not Reported	71 MAJOR DEEGAN NORTH	NNW 1/4 - 1/2 (0.252 mi.)	AD186	419
<b>DEPOT 126TH ST</b> Spill Number/Closed Date: 9709477 / 4/12/2004	<b>2460 2ND AVE</b>	<b>SSW 1/4 - 1/2 (0.262 mi.)</b>	<b>U190</b>	<b>436</b>
<b>126TH ST DEPOT -NYCT</b> Spill Number/Closed Date: 9912782 / 5/4/2004 Spill Number/Closed Date: 9007322 / 6/30/2005	<b>2460 SECOND AVENUE</b>	<b>SSW 1/4 - 1/2 (0.262 mi.)</b>	<b>U191</b>	<b>439</b>
138TH ST / RIDER AVE / Spill Number/Closed Date: 8607426 / 3/7/1987	138TH ST / RIDER AVE	NNE 1/4 - 1/2 (0.263 mi.)	Z192	443
BUSINESS Spill Number/Closed Date: 0511553 / 3/6/2006	91 BRUCKNER BLVD	ESE 1/4 - 1/2 (0.267 mi.)	AE193	445
CLOSED-LACKOF RECENT INFO Spill Number/Closed Date: 8705434 / 3/4/2003	230 ALEXANDER AVE.	ENE 1/4 - 1/2 (0.268 mi.)	AA194	446
<b>ROBINSON HOUSES - JACKIE ROBIN</b> Spill Number/Closed Date: 9315465 / 2/27/2004 Spill Number/Closed Date: 9808458 / 3/29/1999 Spill Number/Closed Date: 9812531 / 5/20/1999	<b>110 EAST 129TH STREET</b>	<b>W 1/4 - 1/2 (0.274 mi.)</b>	<b>AG196</b>	<b>449</b>
<b>242 EAST 138TH STREET, INC.</b> Spill Number/Closed Date: 9101289 / 2/2/2007	<b>242 EAST 138TH STREET</b>	<b>NNE 1/4 - 1/2 (0.282 mi.)</b>	<b>AF198</b>	<b>459</b>
SPILL NUMBER 0403909 Spill Number/Closed Date: 0403909 / 9/27/2004	1908-1914 PARK AVE	W 1/4 - 1/2 (0.283 mi.)	AG199	464
FIEDLER COMPANY INC. Spill Number/Closed Date: 1008706 / Not Reported	91 BRUCHNER BLVD	ESE 1/4 - 1/2 (0.299 mi.)	AE201	466
<b>3 BROTHERS CLEANERS</b> Spill Number/Closed Date: 9605052 / 6/15/2004	<b>347 E 138TH ST</b>	<b>ENE 1/4 - 1/2 (0.306 mi.)</b>	<b>AH202</b>	<b>467</b>
P & R FIXTURES CORP Spill Number/Closed Date: 9914720 / 1/23/2004	271 E 139TH ST	NE 1/4 - 1/2 (0.315 mi.)	203	479
<b>HOUSING - THE COMMUNITY PRESER</b> Spill Number/Closed Date: 0200169 / 7/16/2003	<b>262 ALEXANDER AVENUE</b>	<b>ENE 1/4 - 1/2 (0.317 mi.)</b>	<b>AH204</b>	<b>480</b>
AMOCO Spill Number/Closed Date: 8809618 / 3/25/2004	255 EAST 125TH STREET	SSW 1/4 - 1/2 (0.326 mi.)	205	488
SPILL NUMBER 0209093 Spill Number/Closed Date: 0209093 / 12/4/2002	60 E 130TH ST	WNW 1/4 - 1/2 (0.333 mi.)	AI206	489
<b>PRIVATE RESIDENCE</b> Spill Number/Closed Date: 0209020 / 9/22/2005	<b>60 EAST 130TH ST</b>	<b>WNW 1/4 - 1/2 (0.333 mi.)</b>	<b>AI207</b>	<b>491</b>
<b>LINCOLN HOUSES -NYCHA</b> Spill Number/Closed Date: 9004249 / 10/26/2005 Spill Number/Closed Date: 9315464 / 10/26/2005	<b>2130 MADISON AVE</b>	<b>NW 1/4 - 1/2 (0.353 mi.)</b>	<b>AJ208</b>	<b>494</b>
LINCOLN Spill Number/Closed Date: 9104756 / 8/2/1991	2142 MADISON AVENUE	NW 1/4 - 1/2 (0.360 mi.)	AJ210	501

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MITCHELL</b> Spill Number/Closed Date: 9005760 / Not Reported Spill Number/Closed Date: 9513596 / 3/13/1996	<b>416 EAST 137TH STREET</b>	<b>E 1/4 - 1/2 (0.361 mi.)</b>	<b>211</b>	<b>502</b>
GRAND CONCOUR/CARROLL PL. Spill Number/Closed Date: 9208519 / 3/20/2003	118 GRAND CONCOURSE	N 1/4 - 1/2 (0.368 mi.)	212	506
<b>GASETERIA</b> Spill Number/Closed Date: 0207682 / 8/6/2013	<b>115 EAST 138TH STREET</b>	<b>N 1/4 - 1/2 (0.376 mi.)</b>	<b>213</b>	<b>507</b>
78-80 E 127TH ST/NYCHPD Spill Number/Closed Date: 9106395 / 9/13/1991	78-80 E 127TH ST	W 1/4 - 1/2 (0.385 mi.)	214	511
THE EAST DRIVE H.D.F.C. Spill Number/Closed Date: 9802381 / 11/26/2004	205 EAST 124TH STREET	SW 1/4 - 1/2 (0.396 mi.)	AK215	512
<b>WAGNER HOUSES</b> Spill Number/Closed Date: 9003394 / 1/26/2006	<b>2360 FIRST AVENUE</b>	<b>S 1/4 - 1/2 (0.397 mi.)</b>	<b>216</b>	<b>513</b>
ENGINE CO. 35/LADD. CO. 14 FDN Spill Number/Closed Date: 9801567 / 5/9/2005	2232 3RD AVENUE	SW 1/4 - 1/2 (0.398 mi.)	AK217	523
1824 PARK AVE/SUNOCO Spill Number/Closed Date: 9108459 / 10/13/2006	1824 PARK AVE	WSW 1/4 - 1/2 (0.415 mi.)	218	525
230 EAST 123RD ST/MANH Spill Number/Closed Date: 8905085 / 11/15/1994	230 EAST 123RD STREET	SSW 1/4 - 1/2 (0.426 mi.)	219	527
RESIDENCE Spill Number/Closed Date: 0412055 / 7/18/2005	4 E. 132ND ST.	WNW 1/4 - 1/2 (0.435 mi.)	AL220	528
<b>SHELL OIL-ALBAMA AUTO CTR</b> Spill Number/Closed Date: 9801880 / 2/25/2003 Spill Number/Closed Date: 0007588 / 10/25/2004 Spill Number/Closed Date: 9413289 / 2/25/2003	<b>114 BRUCKNER BLVD</b>	<b>ESE 1/4 - 1/2 (0.436 mi.)</b>	<b>221</b>	<b>529</b>
NYC TRANSIT AUTH Spill Number/Closed Date: 0203324 / 3/31/2004	132E & W 132ND ST	WNW 1/4 - 1/2 (0.440 mi.)	AL222	542
STORE FRONT Spill Number/Closed Date: 0508613 / 8/3/2006	124 EAST 124TH ST.	WSW 1/4 - 1/2 (0.450 mi.)	AM224	544
UNKNOWN Spill Number/Closed Date: 1006590 / Not Reported	308 WILLIS AVE	ENE 1/4 - 1/2 (0.459 mi.)	225	546
<b>TAINO TOWER DRY CLEANERS</b> Spill Number/Closed Date: 0000963 / Not Reported Spill Number/Closed Date: 0000962 / 11/17/2003 Spill Number/Closed Date: 0514031 / 12/19/2006	<b>2253 3RD AVE</b>	<b>SW 1/4 - 1/2 (0.466 mi.)</b>	<b>226</b>	<b>547</b>
100 E. 124TH ST Spill Number/Closed Date: 9514542 / 1/28/1997	100 E. 124TH ST	WSW 1/4 - 1/2 (0.472 mi.)	AM227	566
RIVERTON APARTMENTS Spill Number/Closed Date: 0313699 / 6/19/2006	2225-2237 5TH AVE	NW 1/4 - 1/2 (0.477 mi.)	AN229	572
<b>HIPPODROME SVCS</b> Spill Number/Closed Date: 9312938 / 2/2/1994	<b>310 WALTON AVE</b>	<b>N 1/4 - 1/2 (0.477 mi.)</b>	<b>230</b>	<b>573</b>
RESIDENCE Spill Number/Closed Date: 0000067 / 3/17/2008	212 EAST 122ND STREET	SW 1/4 - 1/2 (0.477 mi.)	231	575
<b>SPILL NUMBER 0209164</b> Spill Number/Closed Date: 0209164 / 12/6/2002	<b>25 W 132ND ST</b>	<b>WNW 1/4 - 1/2 (0.488 mi.)</b>	<b>AO232</b>	<b>576</b>
<b>SIDE WALK OUTSIDE</b> Spill Number/Closed Date: 0406637 / 9/21/2004	<b>25 WEST 132ND ST.</b>	<b>WNW 1/4 - 1/2 (0.488 mi.)</b>	<b>AO233</b>	<b>578</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
2021 LEXINGTON AVENUE Spill Number/Closed Date: 9410094 / 12/30/2003	2021 LEXINGTON AVENUE	SW 1/4 - 1/2 (0.488 mi.)	234	582
10 W 135TH ST Spill Number/Closed Date: 8801143 / 2/27/1989	10 W 135TH ST	NW 1/4 - 1/2 (0.489 mi.)	AN235	583

### **State and tribal registered storage tank lists**

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, and dated 12/30/2013 has revealed that there are 9 NY UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KELLEY FURNITURE WAREHOUSE <b>BP SS# 17882</b>	20 BRUCKNER BLVD. <b>2477 THIRD AVENUE</b>	E 0 - 1/8 (0.047 mi.) <b>NNE 1/8 - 1/4 (0.141 mi.)</b>	C45 <b>K90</b>	99 <b>159</b>
247 EAST 136TH ST CORP. <b>FORMER OLD CERTIFIED CONCRETE</b>	247 EAST 136TH STREET <b>EAST 127TH ST AND 2ND A</b>	NNE 1/8 - 1/4 (0.159 mi.) <b>SSW 1/8 - 1/4 (0.210 mi.)</b>	K100 <b>P132</b>	185 <b>246</b>
POTAMKIN NEW YORK LP	2495 2ND AVE	SW 1/8 - 1/4 (0.211 mi.)	R134	285
DSNY M DISTRICT 10 GARAGE	110 EAST 131ST STREET	WNW 1/8 - 1/4 (0.212 mi.)	S137	301
75 CSW REALTY LLC	75 CANAL STREET WEST	N 1/8 - 1/4 (0.218 mi.)	W154	346
CHAD SPRINGFIELD CORP	2525 THIRD AVE.	NE 1/8 - 1/4 (0.221 mi.)	Y158	356
MITCHELL HOUSES	205 ALEXANDER AVENUE	ENE 1/8 - 1/4 (0.234 mi.)	AA163	373

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, and dated 12/30/2013 has revealed that there are 17 NY AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USA WASTE SERVICES OF NYC, INC	98 LINCOLN AVENUE	E 0 - 1/8 (0.007 mi.)	B19	43
112 LINCOLN AVE.	112 LINCOLN AVENUE	ENE 0 - 1/8 (0.021 mi.)	C30	70
<b>MADHATTER REALTY CORP.</b>	<b>2417 THIRD AVENUE</b>	<b>N 0 - 1/8 (0.041 mi.)</b>	<b>D39</b>	<b>86</b>
<b>225 EAST 134TH STREET</b>	<b>225 EAST 134TH STREET</b>	<b>N 0 - 1/8 (0.070 mi.)</b>	<b>E64</b>	<b>122</b>
26 BRUCKNER BLVD	26 BRUCKNER BOULEVARD	ESE 0 - 1/8 (0.073 mi.)	F67	129
<b>MILL WIPING RAGS CORPORATION</b>	<b>40 BRUCKNER BLVD</b>	<b>ESE 1/8 - 1/4 (0.143 mi.)</b>	<b>L93</b>	<b>173</b>
333 ALEXANDER AVE	333 ALEXANDER AVE	E 1/8 - 1/4 (0.148 mi.)	L94	177
UNITED PARCEL SERVICE	247 EAST 136TH STREET	NNE 1/8 - 1/4 (0.157 mi.)	K99	182
KIEWIT CONSTRUCTORS INC/WEEKS	2600 SECOND AVENUE	SSW 1/8 - 1/4 (0.175 mi.)	P112	200
<b>2170 LEXINGTON AVENUE</b>	<b>2170 LEXINGTON AVENUE</b>	<b>W 1/8 - 1/4 (0.182 mi.)</b>	<b>O117</b>	<b>230</b>
<b>FORMER OLD CERTIFIED CONCRETE</b>	<b>EAST 127TH ST AND 2ND A</b>	<b>SSW 1/8 - 1/4 (0.210 mi.)</b>	<b>P132</b>	<b>246</b>
POTAMKIN NEW YORK LP	2495 2ND AVE	SW 1/8 - 1/4 (0.211 mi.)	R135	294
DSNY M DISTRICT 10 GARAGE	110 EAST 131ST STREET	WNW 1/8 - 1/4 (0.212 mi.)	S136	298
CITYWIDE CAR REPAIR INC.	250 EAST 137TH STREET	NNE 1/8 - 1/4 (0.214 mi.)	Q147	338
75 CSW REALTY LLC	75 CANAL STREET WEST	N 1/8 - 1/4 (0.218 mi.)	W155	349
<b>BUILDING</b>	<b>123 EAST 130TH ST</b>	<b>W 1/8 - 1/4 (0.241 mi.)</b>	<b>S167</b>	<b>389</b>
<b>UNITED PARCEL SERVICE</b>	<b>180 CANAL PLACE</b>	<b>N 1/8 - 1/4 (0.250 mi.)</b>	<b>W184</b>	<b>410</b>

## EXECUTIVE SUMMARY

### ***State and tribal institutional control / engineering control registries***

NY ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the NY ENG CONTROLS list, as provided by EDR, and dated 02/17/2014 has revealed that there is 1 NY ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BORINQUEN COURT	271 - 285 E. 138TH ST	NE 1/4 - 1/2 (0.262 mi.)	Y188	433

Environmental Remediation sites that have institutional controls in place.

A review of the NY INST CONTROL list, as provided by EDR, and dated 02/17/2014 has revealed that there is 1 NY INST CONTROL site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BORINQUEN COURT	271 - 285 E. 138TH ST	NE 1/4 - 1/2 (0.262 mi.)	Y187	423

### ***State and tribal Brownfields sites***

NY BROWNFIELDS: Brownfields Site List

A review of the NY BROWNFIELDS list, as provided by EDR, and dated 02/17/2014 has revealed that there are 3 NY BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
2477 THIRD AVENUE PROPERTY	2477 THIRD AVENUE	NNE 1/8 - 1/4 (0.141 mi.)	K89	157
BORINQUEN COURT	271 - 285 E. 138TH ST	NE 1/4 - 1/2 (0.262 mi.)	Y189	435
FORMER G & C SERVICES	255 EAST 138TH STREET	NNE 1/4 - 1/2 (0.274 mi.)	AF195	447

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the NY SWRCY list, as provided by EDR, and dated 12/12/2013 has revealed that there are 3 NY SWRCY sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NYCDOS EAST HARLEM MRF	EAST 127TH AND 2ND AVEN	SSW 1/8 - 1/4 (0.215 mi.)	U150	343
IESI NY CORP - CANAL PLACE REC	246 - 266 CANAL PLACE	NNE 1/4 - 1/2 (0.289 mi.)	200	465
ECOLOGY RECYCLING PLANT	321 CANAL PLACE	NNE 1/4 - 1/2 (0.449 mi.)	223	543

## EXECUTIVE SUMMARY

### **Local Lists of Registered Storage Tanks**

NY HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 NY HIST UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>UNITED PARCEL SERVICE</b>	<b>180 CANAL PLACE</b>	<b>N 1/8 - 1/4 (0.250 mi.)</b>	<b>W184</b>	<b>410</b>

### **Records of Emergency Release Reports**

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 02/17/2014 has revealed that there are 33 NY Spills sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BRONX GRIT CHAMBER Spill Number/Closed Date: 8909440 / 12/29/1989	BRUDENER BLVD	0 - 1/8 (0.000 mi.)	A8	29
222181; E. 132 ST Spill Number/Closed Date: 1009184 / 6/30/2010	E. 132 ST	0 - 1/8 (0.000 mi.)	A9	30
222162; E 132 ST Spill Number/Closed Date: 1009179 / 6/30/2010	E 132 ST	0 - 1/8 (0.000 mi.)	A10	32
221514; E 132 ST Spill Number/Closed Date: 1009100 / 5/21/2010	E 132 ST	0 - 1/8 (0.000 mi.)	A11	33
ONE QUART OIL IN MANHOLE # 209 Spill Number/Closed Date: 0607952 / 12/21/2006	EAST 132 & LINCOLN AVEN	SE 0 - 1/8 (0.005 mi.)	B14	36
<b>CONSOLIDATED EDISON</b> Spill Number/Closed Date: 9901434 / 4/2/2002 Spill Number/Closed Date: 0607951 / 12/21/2006	<b>132ND &amp; LINCOLN AVE</b>	<b>SE 0 - 1/8 (0.005 mi.)</b>	<b>B15</b>	<b>37</b>
ONE PINT OIL IN MANHOLE 31223 Spill Number/Closed Date: 0701493 / 5/23/2007	LINCOLN AVENUE & EAST 1	SE 0 - 1/8 (0.005 mi.)	B16	40
POLE 18025 Spill Number/Closed Date: 1210172 / Not Reported	EAST 132ND STREET & LIN	SE 0 - 1/8 (0.005 mi.)	B17	41
<b>WMNY LLC HARLEM RIVER YARD</b> Spill Number/Closed Date: 0004999 / 2/13/2003 Spill Number/Closed Date: 0005007 / 2/13/2003 Spill Number/Closed Date: 0412457 / 3/29/2005 Spill Number/Closed Date: 0307269 / 10/10/2003 Spill Number/Closed Date: 0611553 / 1/19/2007	<b>98 LINCOLN AVENUE</b>	<b>E 0 - 1/8 (0.007 mi.)</b>	<b>B20</b>	<b>48</b>
4 GALLON LEAK FROM MACHINE Spill Number/Closed Date: 0606203 / 12/21/2006	BRUCKNER BLVD & LINCOLN	E 0 - 1/8 (0.007 mi.)	B21	55
MANHOLE TM 692 Spill Number/Closed Date: 0102330 / 8/27/2001	LINCOLN AVE/BRUCKNER BL	E 0 - 1/8 (0.007 mi.)	B22	56



## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
E.SIDE BRUCKNER BLVD Spill Number/Closed Date: 0400305 / 7/16/2004	60FT. S. LINCOLN AVE.	E 0 - 1/8 (0.008 mi.)	B24	57
MANHOLE 16164 Spill Number/Closed Date: 0909563 / 1/14/2010	2423 3RD AVE	N 0 - 1/8 (0.045 mi.)	D43	94
<b>NEWMARK KIGHT FRANK</b> Spill Number/Closed Date: 0610344 / 7/10/2008	<b>20 BRUCKNER BLVD</b>	<b>E 0 - 1/8 (0.047 mi.)</b>	<b>C44</b>	<b>95</b>
MANHOLE 17444 Spill Number/Closed Date: 0405598 / 12/29/2004	EAST 134 ST AND LINCOLN	ENE 0 - 1/8 (0.055 mi.)	C48	103
TRANSFORMER MANHOLE #729 Spill Number/Closed Date: 9906498 / 12/7/1999	EAST 134TH ST/LINCOLN A	ENE 0 - 1/8 (0.055 mi.)	C50	106
MANHOLE Spill Number/Closed Date: 9802488 / 6/22/1998	134TH ST / LINCOLN AVE	ENE 0 - 1/8 (0.055 mi.)	C51	108
MANHOLE # 17444 Spill Number/Closed Date: 0404510 / 10/7/2004	LINCLON AVE&134TH SR	ENE 0 - 1/8 (0.058 mi.)	C55	113
213672; THIRD AVE & E134 ST Spill Number/Closed Date: 0814471 / 9/23/2008	THIRD AVE & E134 ST	NNE 0 - 1/8 (0.061 mi.)	E56	114
209594; N/S EAST 134 STREETT Spill Number/Closed Date: 0890348 / 2/12/2008	N/S EAST 134 STREETT	NNE 0 - 1/8 (0.061 mi.)	E57	115
<b>SPILL NUMBER 0108616</b> Spill Number/Closed Date: 9901930 / 4/3/2002	<b>225 EAST 134TH ST</b>	<b>N 0 - 1/8 (0.070 mi.)</b>	<b>E63</b>	<b>120</b>
<b>225 EAST 134TH STREET</b> Spill Number/Closed Date: 1211842 / 3/27/2013	<b>225 EAST 134TH STREET</b>	<b>N 0 - 1/8 (0.070 mi.)</b>	<b>E64</b>	<b>122</b>
MANHOLE 6128 Spill Number/Closed Date: 9905698 / 2/22/2002	294 E 134 ST	E 0 - 1/8 (0.089 mi.)	H70	136
MANHOLE 6129 Spill Number/Closed Date: 9902347 / 5/18/2000	300 EAST 134TH ST	E 0 - 1/8 (0.100 mi.)	H72	138
MANHOLE 6129 Spill Number/Closed Date: 9902438 / 5/18/2000	300 E 134TH ST	E 0 - 1/8 (0.100 mi.)	H73	139
MH 21502 IS TIDAL. HAS HALF PI Spill Number/Closed Date: 0801577 / 8/5/2008	327 EAST 132 STREET	ESE 0 - 1/8 (0.108 mi.)	G75	141
217562; E 135 ST AND THIRD AVE Spill Number/Closed Date: 0914314 / 10/25/2009	E 135 ST AND THIRD AVE	NNE 0 - 1/8 (0.115 mi.)	K80	147
HELLGATE NORTH SUBSTATION Spill Number/Closed Date: 0210318 / 3/2/2007	310 E. 134TH ST	E 0 - 1/8 (0.119 mi.)	H81	148
VAULT 600 Spill Number/Closed Date: 9901879 / 5/19/1999	137TH ST ALEXANDER AV	E 0 - 1/8 (0.120 mi.)	L82	149
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNDER THE 3RD AVE Spill Number/Closed Date: 0304415 / 7/28/2003	BRIDGE ON BRONX SIDE	W 0 - 1/8 (0.034 mi.)	33	78
GAYLORD WHITE HOUSES -NYCHA Spill Number/Closed Date: 9601210 / 3/8/2006	2029 SECOND AVENUE	SSW 0 - 1/8 (0.106 mi.)	74	140
3RD AVE BRIDGE Spill Number/Closed Date: 0501296 / 2/23/2006	EAST 127TH STREET/HARLE	WSW 0 - 1/8 (0.112 mi.)	J78	144
SPILL NUMBER 0110814 Spill Number/Closed Date: 0110814 / 2/14/2002	3RD AVE BRIDGE	WSW 0 - 1/8 (0.112 mi.)	J79	146

## EXECUTIVE SUMMARY

NY SPILLS 90: Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

A review of the NY SPILLS 90 list, as provided by EDR, and dated 12/14/2012 has revealed that there is 1 NY SPILLS 90 site within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
225 EAST 134TH STREET	225 EAST 134TH STREET	N 0 - 1/8 (0.070 mi.)	E62	119

### **Other Ascertainable Records**

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/11/2014 has revealed that there are 30 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CON EDISON MANHOLE 20965</b>	<b>LINCOLN AVE &amp; E 132 ST</b>	<b>SE 0 - 1/8 (0.005 mi.)</b>	<b>B12</b>	<b>34</b>
CON EDISON MANHOLE 20964	LINCOLN AVE & E 132 ST	SE 0 - 1/8 (0.005 mi.)	B13	35
WASTE MANAGEMENT OF NEW YORK L	98 LINCOLN AVE	E 0 - 1/8 (0.007 mi.)	B18	42
<b>CON EDISON MANHOLE 23764</b>	<b>E 133RD ST &amp; 3RD AVE</b>	<b>E 0 - 1/8 (0.010 mi.)</b>	<b>C26</b>	<b>62</b>
CON EDISON MANHOLE 31931	LINCOLN AVE & BRUCKNER	E 0 - 1/8 (0.010 mi.)	B27	63
CON EDISON MANHOLE 3422	BRUCKNER BLVD 24 FEET E	E 0 - 1/8 (0.062 mi.)	F58	116
CON EDISON	E 134TH ST & 3RD AVE	NNE 0 - 1/8 (0.063 mi.)	E59	117
<b>MH6129</b>	<b>OPPOSITE 294 E 134TH ST</b>	<b>E 0 - 1/8 (0.089 mi.)</b>	<b>H69</b>	<b>134</b>
CON EDISON MANHOLE 17450	LINCOLN AVE & E 135TH	NE 0 - 1/8 (0.110 mi.)	I76	142
CON EDISON MANHOLE 15914	3RD AVE & E 135TH ST	NNE 1/8 - 1/4 (0.127 mi.)	I83	150
CON EDISON MANHOLE 506	ALEXANDER AVE & BRUCKNEESE	1/8 - 1/4 (0.131 mi.)	L87	154
<b>MICHAEL ANGELO CO</b>	<b>171 LINCOLN AVE</b>	<b>NE 1/8 - 1/4 (0.136 mi.)</b>	<b>I88</b>	<b>155</b>
CON EDISON TRANSFORMER VAULT 7	E 136TH ST & 3RD AVE	NNE 1/8 - 1/4 (0.156 mi.)	K98	181
CON EDISON SERVICE BOX 55142	E 128TH ST & 2ND AVE NE	SSW 1/8 - 1/4 (0.170 mi.)	P105	194
CON EDISON SERVICE BOX: 21084	232 E 128TH ST	SSW 1/8 - 1/4 (0.172 mi.)	P108	197
CON EDISON SERVICE BOX: 21082	214 E 128TH ST	SW 1/8 - 1/4 (0.191 mi.)	R120	234
CON EDISON SERVICE BOX: 21081	206 E 128TH ST	SW 1/8 - 1/4 (0.199 mi.)	R124	238
CON EDISON SERVICE BOX: 21080	202 E 128TH ST	SW 1/8 - 1/4 (0.204 mi.)	R126	240
CON EDISON SERVICE BOX: 21085	E 128 ST & 3RD AVE	SW 1/8 - 1/4 (0.205 mi.)	R128	242
CON EDISON SERVICE BOX: 21083	E 128TH ST & 3RD AVE	SW 1/8 - 1/4 (0.205 mi.)	R130	244
NYC DEPT OF SANITATION	M-10 110 E 131ST ST	WNW 1/8 - 1/4 (0.213 mi.)	S139	314
CON EDISON SERVICE BOX: 39265	E 129TH ST & LEXINGTON	W 1/8 - 1/4 (0.213 mi.)	T141	331
<b>GLENTIES LEASING CO</b>	<b>75 CANAL ST W</b>	<b>N 1/8 - 1/4 (0.218 mi.)</b>	<b>W156</b>	<b>353</b>
<b>ORENSE S/S INC-13315</b>	<b>2527 3RD AVE</b>	<b>NE 1/8 - 1/4 (0.221 mi.)</b>	<b>Y160</b>	<b>367</b>
CON EDISON SERVICE BOX: 61992	642 W 56TH & 12TH AVE	N 1/8 - 1/4 (0.246 mi.)	W169	394
CON EDISON	E 132ND ST & PARK AVE	WNW 1/8 - 1/4 (0.247 mi.)	AC171	396
CON EDISON MANHOLE 58948	W 132ND ST & PARK AVE	WNW 1/8 - 1/4 (0.247 mi.)	AC173	398
CON EDISON SERVICE BOX 58948	E 132ND ST & PARK AVE S	WNW 1/8 - 1/4 (0.247 mi.)	AC175	399
<b>NYSDOT CONTRACT D500792</b>	<b>EXTERIOR ST &amp; 135TH ST</b>	<b>NNW 1/8 - 1/4 (0.248 mi.)</b>	<b>AD179</b>	<b>404</b>
U S A PORTABLE SERVICE	180 CANAL ST W	N 1/8 - 1/4 (0.250 mi.)	W185	417

## EXECUTIVE SUMMARY

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 12/31/2013 has revealed that there are 39 NY MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CON EDISON MANHOLE 20965</b>	<b>LINCOLN AVE &amp; E 132 ST</b>	<b>SE 0 - 1/8 (0.005 mi.)</b>	<b>B12</b>	<b>34</b>
<b>CONSOLIDATED EDISON</b>	<b>132ND &amp; LINCOLN AVE</b>	<b>SE 0 - 1/8 (0.005 mi.)</b>	<b>B15</b>	<b>37</b>
CON EDISON - MH 23964	BRUCKNER BLVD AND LINCO	E 0 - 1/8 (0.007 mi.)	B23	57
<b>CON EDISON MANHOLE 23764</b>	<b>E 133RD ST &amp; 3RD AVE</b>	<b>E 0 - 1/8 (0.010 mi.)</b>	<b>C26</b>	<b>62</b>
PROSTRIP WOOD FINISHERS INC	2417 3RD AVE - ROOM 807	N 0 - 1/8 (0.041 mi.)	D37	83
<b>NEWMARK KIGHT FRANK</b>	<b>20 BRUCKNER BLVD</b>	<b>E 0 - 1/8 (0.047 mi.)</b>	<b>C44</b>	<b>95</b>
CON EDISON	E 134 & LINCOLN AVE	ENE 0 - 1/8 (0.055 mi.)	C49	105
CON EDISON	E 134 & LINCOLN AVE	ENE 0 - 1/8 (0.055 mi.)	C52	109
CONSOLIDATED EDISON	EAST 134TH ST & BRUCKNE	NNE 0 - 1/8 (0.063 mi.)	E60	118
BETTER GRO	29-31 BRUCKNER BLVD	ESE 0 - 1/8 (0.081 mi.)	F68	131
<b>MH6129</b>	<b>OPPOSITE 294 E 134TH ST</b>	<b>E 0 - 1/8 (0.089 mi.)</b>	<b>H69</b>	<b>134</b>
CON EDISON	LINCOLN AVE & E 135 ST	NE 0 - 1/8 (0.110 mi.)	I77	143
CON EDISON	E 132ND ST & ALEXANDER	SE 1/8 - 1/4 (0.129 mi.)	M84	151
CONSOLIDATED EDISON	BRUCKNER & ALEXANDER	ESE 1/8 - 1/4 (0.130 mi.)	L86	154
<b>MICHAEL ANGELO CO</b>	<b>171 LINCOLN AVE</b>	<b>NE 1/8 - 1/4 (0.136 mi.)</b>	<b>I88</b>	<b>155</b>
CONSOLIDATED EDISON	ALEXANDER AVE & E 134TH	E 1/8 - 1/4 (0.142 mi.)	L92	168
CON EDISON	E 135 ST AND RIDER AVE	NNE 1/8 - 1/4 (0.150 mi.)	N95	179
CON EDISON	E 135TH ST & RIDER AVE	N 1/8 - 1/4 (0.150 mi.)	N97	180
CONSOLIDATED EDISON	238 E 128TH ST	SSW 1/8 - 1/4 (0.168 mi.)	P104	192
CON EDISON	232 E 128 ST	SSW 1/8 - 1/4 (0.172 mi.)	P107	196
NEW YORK CITY DEPT OF TRANSPOR	2602 SECOND AVENUE	SSW 1/8 - 1/4 (0.175 mi.)	P114	215
CON EDISON	214 E 128 ST	SW 1/8 - 1/4 (0.191 mi.)	R121	234
CON EDISON	206 E 128 ST	SW 1/8 - 1/4 (0.199 mi.)	R125	238
CON EDISON	202 E 128 ST	SW 1/8 - 1/4 (0.204 mi.)	R127	241
<b>NEW YORK AUTO MALL SITE</b>	<b>2485-2495 2ND AVE - EAS</b>	<b>SW 1/8 - 1/4 (0.211 mi.)</b>	<b>R133</b>	<b>255</b>
CONED	129 E 22 ST AND LEXINGT	W 1/8 - 1/4 (0.213 mi.)	T138	312
<b>MTA NYCT - 2ND AVE SUBWAY 128T</b>	<b>2485 2ND AVE</b>	<b>SSW 1/8 - 1/4 (0.214 mi.)</b>	<b>U144</b>	<b>334</b>
CON EDISON	FO 168 E 128 ST	WSW 1/8 - 1/4 (0.214 mi.)	V148	341
CON EDISON	E 127TH ST & 2ND AVE	SSW 1/8 - 1/4 (0.215 mi.)	U151	344
CON EDISON	OPP 350 E 127 ST	S 1/8 - 1/4 (0.220 mi.)	X157	354
CON EDISON	E 137TH ST & RIDER AVE	NNE 1/8 - 1/4 (0.231 mi.)	Z162	371
CONSOLIDATED EDIOSN	230 E 127TH ST	SW 1/8 - 1/4 (0.240 mi.)	AB165	385
CONED	OPP 2355 3RD AVE	SW 1/8 - 1/4 (0.241 mi.)	V166	387
CONSOLIDATED EDISON	132ND ST & PARK AVE	WNW 1/8 - 1/4 (0.247 mi.)	AC172	397
CONSOLIDATED EDISON - MH 58948	PARK AVE & EAST 132ND S	WNW 1/8 - 1/4 (0.247 mi.)	AC174	398
CON EDISON	E 135TH ST & EXTERIOR S	NNW 1/8 - 1/4 (0.248 mi.)	AD178	402
<b>NYSDOT CONTRACT D500792</b>	<b>EXTERIOR ST &amp; 135TH ST</b>	<b>NNW 1/8 - 1/4 (0.248 mi.)</b>	<b>AD179</b>	<b>404</b>
CON EDISON	FO 210 E 127 ST	SW 1/8 - 1/4 (0.249 mi.)	AB181	407
CONSOLIDATED EDISON	42 EXTERIOR ST	NNW 1/8 - 1/4 (0.250 mi.)	AD183	409

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2013 has revealed that there is 1 NJ MANIFEST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NEW YORK AUTO MALL SITE</b>	<b>2485-2495 2ND AVE - EAS</b>	<b>SW 1/8 - 1/4 (0.211 mi.)</b>	<b>R133</b>	<b>255</b>

## EXECUTIVE SUMMARY

NY E DESIGNATION: Lots designation with an "E" on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the NY E DESIGNATION list, as provided by EDR, and dated 12/10/2013 has revealed that there are 7 NY E DESIGNATION sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOT 180,TAXBLOCK 2260	180 EAST 132 STREET	SE 0 - 1/8 (0.008 mi.)	B25	59
LOT 2,TAXBLOCK 2319	2401 3 AVENUE	N 0 - 1/8 (0.017 mi.)	D29	65
LOT 1,TAXBLOCK 2308	14 BRUCKNER BOULEVARD	E 0 - 1/8 (0.030 mi.)	C31	72
LOT 109,TAXBLOCK 2319	2413 3 AVENUE	N 0 - 1/8 (0.033 mi.)	D32	75
LOT 5,TAXBLOCK 2308	18 BRUCKNER BOULEVARD	E 0 - 1/8 (0.035 mi.)	C35	79
LOT 100,TAXBLOCK 2319	2417 3 AVENUE	N 0 - 1/8 (0.041 mi.)	D41	90
LOT 98,TAXBLOCK 2319	220 EAST 134 STREET	N 0 - 1/8 (0.070 mi.)	E66	126

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON - EAST 115TH ST. WO	EAST 114TH - EAST 116TH	S 1/2 - 1 (0.855 mi.)	237	602

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 20 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	2416 3RD AVE	NNE 0 - 1/8 (0.035 mi.)	D34	79
Not reported	131 LINCOLN AVE	ENE 0 - 1/8 (0.039 mi.)	C36	83
Not reported	133 LINCOLN AVE	ENE 0 - 1/8 (0.044 mi.)	C42	94
Not reported	258 E 134TH ST	NE 0 - 1/8 (0.055 mi.)	C47	103

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	225 E 134TH ST	N 0 - 1/8 (0.070 mi.)	E61	119
Not reported	2454 3RD AVE	NNE 0 - 1/8 (0.094 mi.)	E71	137
Not reported	2491 3RD AVE	NE 1/8 - 1/4 (0.170 mi.)	Q106	195
Not reported	2493 3RD AVE	NE 1/8 - 1/4 (0.173 mi.)	Q109	198
Not reported	244 E 128TH ST	SSW 1/8 - 1/4 (0.175 mi.)	P110	199
Not reported	222 E 128TH ST	SW 1/8 - 1/4 (0.183 mi.)	P118	233
Not reported	50 BRUCKNER BLVD	ESE 1/8 - 1/4 (0.192 mi.)	122	236
Not reported	2507 3RD AVE	NE 1/8 - 1/4 (0.195 mi.)	Q123	237
Not reported	2515 3RD AVE	NE 1/8 - 1/4 (0.207 mi.)	Q131	245
Not reported	252 E 137TH ST	NNE 1/8 - 1/4 (0.213 mi.)	Q143	333
Not reported	2485 2ND AVE	SSW 1/8 - 1/4 (0.214 mi.)	U145	336
Not reported	250 E 137TH ST	NNE 1/8 - 1/4 (0.214 mi.)	Q146	337
Not reported	370 E 134TH ST	E 1/8 - 1/4 (0.217 mi.)	153	346
Not reported	2525 3RD AVE	NE 1/8 - 1/4 (0.221 mi.)	Y159	367
Not reported	212 E 127TH ST	SW 1/8 - 1/4 (0.248 mi.)	AB177	402
Not reported	208 E 127TH ST	SW 1/8 - 1/4 (0.250 mi.)	AB182	408

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there is 1 EDR US Hist Cleaners site within approximately 0.25 miles of the target property.

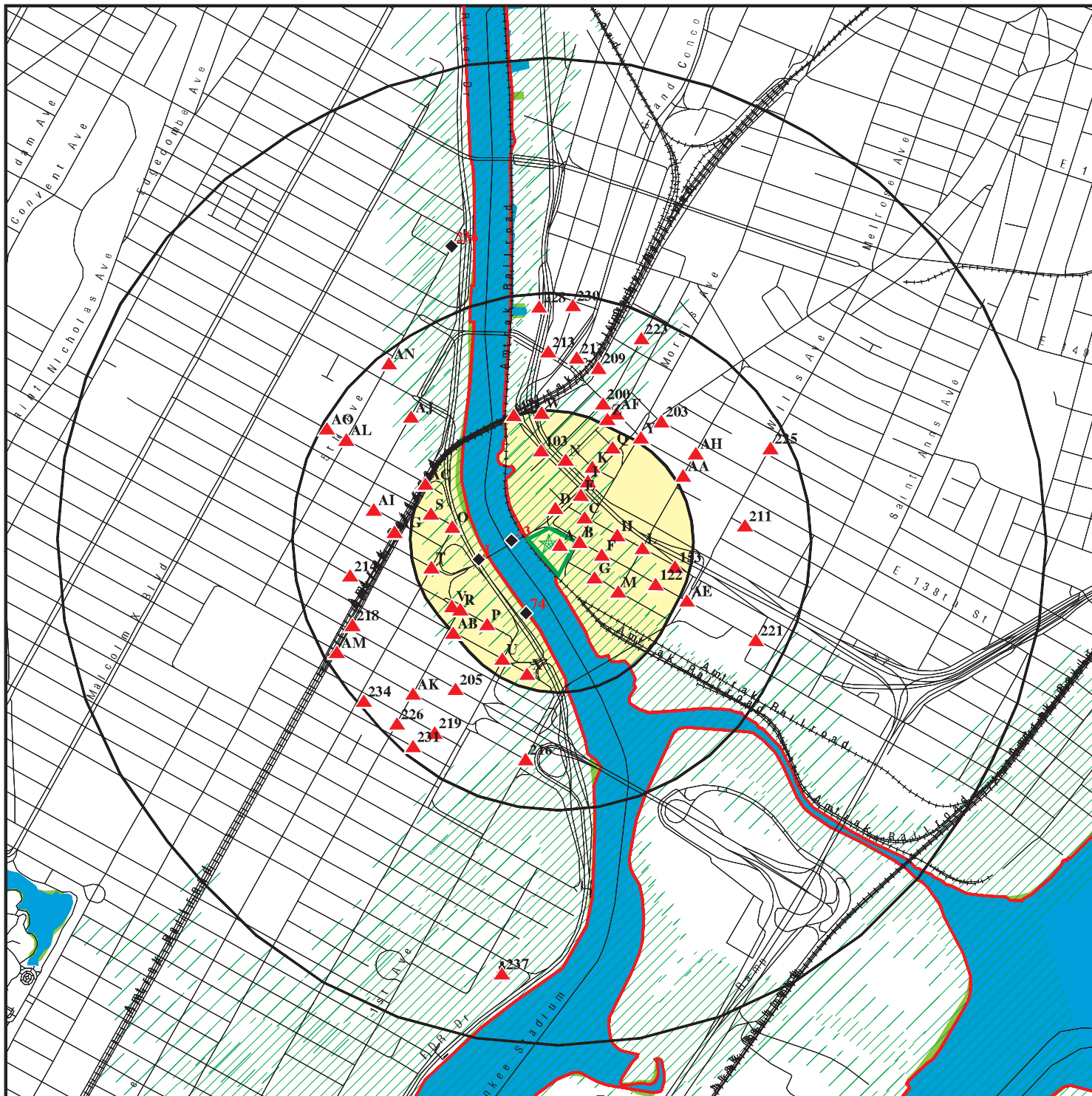
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	188 E 135TH ST	N 1/8 - 1/4 (0.166 mi.)	103	192

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
SHELL OIL-ANGAMA AUTO CTR INC	RCRA NonGen / NLR, FINDS, NY MANIFEST, US AIRS
NYCDOT - 132ND STREET GRIT CHAMBER	RCRA NonGen / NLR, NY MANIFEST
CONSOLIDATED EDISON	NY MANIFEST
NYSDOT BIN 1066220	FINDS, NY MANIFEST
AVENUE V PUMP STATION	RCRA NonGen / NLR, NY MANIFEST
NYCDOT BRIDGE BIN 2246670	RCRA NonGen / NLR, NY MANIFEST
PARK AVENUE VIADUCT 98TH - 138TH S	RCRA NonGen / NLR, NY MANIFEST
NYCDOT - BIN 2233050 HARLEM RIVER	RCRA-SQG, NY MANIFEST
HUDSON RIVER PARK TRUST	RCRA NonGen / NLR, NY MANIFEST
NYCDOT - MADISON AVENUE BRIDGE #22	RCRA-SQG, NJ MANIFEST, NY MANIFEST
NYSDOT BIN 1077030	RCRA-LQG
NYSDOT BIN 222933B	RCRA-LQG
NYSDOT BIN 222933A	RCRA-LQG
NYSDOT BIN 2229339	RCRA-LQG
CON EDISON TRANSFORMER MANHOLE 440	RCRA NonGen / NLR
DRUM RUN	NY Spills
QUEENS BOUND AT THE TOLL PLAZA AT	NY Spills
TRAFFIC ACCIDENT	NY Spills
MILE MARKER IS POSSIBLY 2.6 THE CA	NY Spills
IFO TASK FORCE	NY Spills

# OVERVIEW MAP - 3910510.2s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

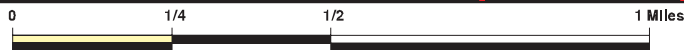
Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands



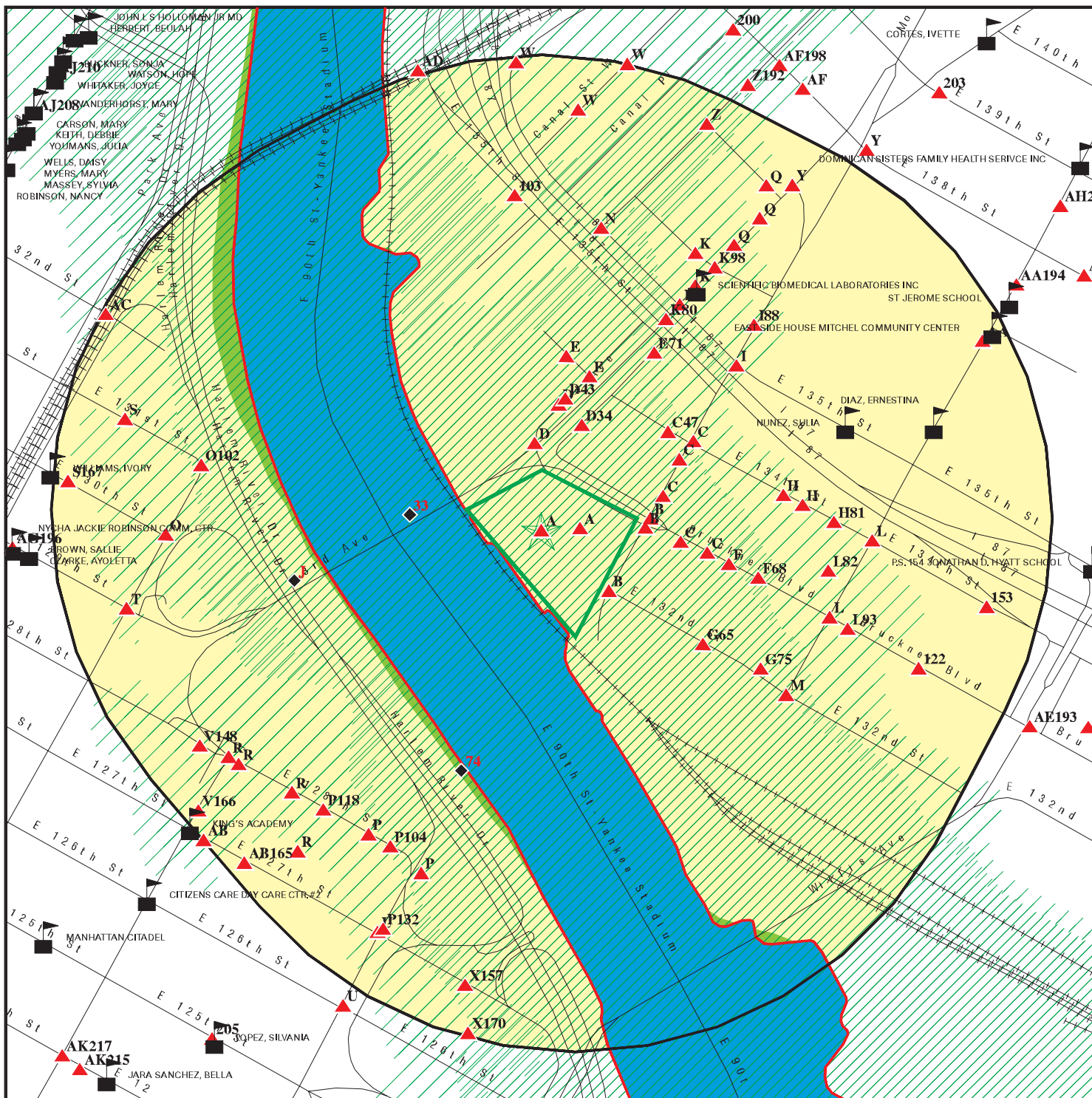
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 101 Lincoln Avenue  
 ADDRESS: 101 Lincoln Avenue  
 Bronx NY 10454  
 LAT/LONG: 40.8076 / 73.9308

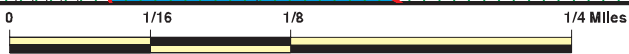
CLIENT: Langan Environmental Services  
 CONTACT: David Granucci  
 INQUIRY #: 3910510.2s  
 DATE: April 14, 2014 6:13 pm



# DETAIL MAP - 3910510.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 101 Lincoln Avenue ADDRESS: 101 Lincoln Avenue Bronx NY 10454 LAT/LONG: 40.8076 / 73.9308	CLIENT: Langan Environmental Services CONTACT: David Granucci INQUIRY #: 3910510.2s DATE: April 14, 2014 6:21 pm
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	2	NR	NR	NR	2
RCRA-SQG	0.250		2	2	NR	NR	NR	4
RCRA-CESQG	0.250		2	13	NR	NR	NR	15
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
NY SHWS	1.000		1	0	2	1	NR	4
NY VAPOR REOPENED	1.000		0	0	0	1	NR	1
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
NY SWF/LF	0.500		2	1	1	NR	NR	4
<b><i>State and tribal leaking storage tank lists</i></b>								
NY LTANKS	0.500		2	5	41	NR	NR	48
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>State and tribal registered storage tank lists</b>								
NY TANKS	0.250		0	0	NR	NR	NR	0
NY UST	0.250	1	1	8	NR	NR	NR	10
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY AST	0.250	1	5	12	NR	NR	NR	18
NY CBS AST	0.250		0	0	NR	NR	NR	0
NY MOSF AST	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	0	NR	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
NY ENG CONTROLS	0.500		0	0	1	NR	NR	1
NY INST CONTROL	0.500		0	0	1	NR	NR	1
NY RES DECL	0.125		0	NR	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
NY VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
NY ERP	0.500		0	0	0	NR	NR	0
NY BROWNFIELDS	0.500		0	1	2	NR	NR	3
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
NY SWRCY	0.500		0	1	2	NR	NR	3
INDIAN ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
NY HIST UST	0.250	1	0	1	NR	NR	NR	2
NY HIST AST	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
NY LIENS	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125	1	33	NR	NR	NR	NR	34
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		1	NR	NR	NR	NR	1
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250	1	9	21	NR	NR	NR	31
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY UIC	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250	1	12	27	NR	NR	NR	40
NJ MANIFEST	0.250		0	1	NR	NR	NR	1
NY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY SPDES	TP		NR	NR	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY E DESIGNATION	0.125	1	7	NR	NR	NR	NR	8
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	1	NR	1
EDR US Hist Auto Stat	0.250		6	14	NR	NR	NR	20
EDR US Hist Cleaners	0.250		0	1	NR	NR	NR	1

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

NY RGA HWS	TP		NR	NR	NR	NR	NR	0
NY RGA LF	TP		NR	NR	NR	NR	NR	0

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A1  
Target  
Property

**FELIX INDUSTRIES**  
**101 LINCOLN AVE**  
**BRONX, NY**

**RCRA NonGen / NLR** **1001171009**  
**FINDS** **NY0001415264**

**Site 1 of 11 in cluster A**

**Actual:**  
**5 ft.**

**RCRA NonGen / NLR:**

Date form received by agency: 01/01/2007  
Facility name: FELIX INDUSTRIES  
Facility address: 101 LINCOLN AVE  
BRONX, NY 10454  
EPA ID: NY0001415264  
Mailing address: LINCOLN AVE  
BRONX, NY 10454  
Contact: Not reported  
Contact address: LINCOLN AVE  
BRONX, NY 10454  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: GEROSA INC  
Owner/operator address: 101 LINCOLN AVE  
BRONX, NY 10454  
Owner/operator country: US  
Owner/operator telephone: (718) 585-1800  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: GEROSA INC  
Owner/operator address: 101 LINCOLN AVE  
BRONX, NY 10454  
Owner/operator country: US  
Owner/operator telephone: (718) 585-1800  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FELIX INDUSTRIES (Continued)**

**1001171009**

Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
 Facility name: FELIX INDUSTRIES  
 Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
 Facility name: FELIX INDUSTRIES  
 Classification: Not a generator, verified

Date form received by agency: 03/25/1998  
 Facility name: FELIX INDUSTRIES  
 Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110009462893

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**A2  
 Target  
 Property**

**VERIZON NEW YORK INC. (NY90513)  
 101 LINCOLN AVENUE  
 BRONX, NY 10454**

**NY UST U004198777  
 N/A**

**Site 2 of 11 in cluster A**

**Actual:  
 5 ft.**

UST:  
 Id/Status: 2-350559 / Unregulated  
 Program Type: PBS  
 Region: STATE  
 DEC Region: 2  
 Expiration Date: N/A  
 UTM X: 590249.80157999997  
 UTM Y: 4517864.7055200003  
 Site Type: Utility (Other than Municipal)

Tank Info:

Tank Number: 01D  
 Tank ID: 33889  
 Tank Status: Closed - In Place  
 Material Name: Closed - In Place  
 Capacity Gallons: 550  
 Install Date: 03/01/1968  
 Date Tank Closed: 12/01/1991  
 Registered: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VERIZON NEW YORK INC. (NY90513) (Continued)**

**U004198777**

Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 01G  
Tank ID: 33901  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 02D  
Tank ID: 33890  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 02G  
Tank ID: 33902  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VERIZON NEW YORK INC. (NY90513) (Continued)**

**U004198777**

Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 03D  
Tank ID: 33891  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 04D  
Tank ID: 33892  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 05D  
Tank ID: 33893  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VERIZON NEW YORK INC. (NY90513) (Continued)

U004198777

Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 06D  
Tank ID: 33894  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 07D  
Tank ID: 33895  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 08D  
Tank ID: 33896  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VERIZON NEW YORK INC. (NY90513) (Continued)**

**U004198777**

Tank Number: 09D  
Tank ID: 33897  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 10D  
Tank ID: 33898  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 11D  
Tank ID: 33899  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Tank Number: 12D  
Tank ID: 33900  
Tank Status: Closed - In Place

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VERIZON NEW YORK INC. (NY90513) (Continued)**

**U004198777**

Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 03/01/1968  
Date Tank Closed: 12/01/1991  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

**A3  
Target  
Property**

**SPILL NUMBER 0304688  
101 LINCOLN AVE  
BRONX, NY**

**NY Spills S106016745  
N/A**

**Site 3 of 11 in cluster A**

**Actual:  
5 ft.**

**SPILLS:**  
Facility ID: 0304688  
Facility Type: ER  
DER Facility ID: 150042  
Site ID: 178694  
DEC Region: 2  
Spill Date: 8/3/2003  
Spill Number/Closed Date: 0304688 / 8/4/2003  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.  
**SWIS:**  
Investigator: JXZHAO  
Referred To: Not reported  
Reported to Dept: 8/3/2003  
CID: 418  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Citizen  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 8/3/2003  
Spill Record Last Update: 8/4/2003  
Spiller Name: Not reported  
Spiller Company: UNKNOWN  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: THOMAS LANTZ  
Contact Phone: (914) 235-2010  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ZHAO"8/3/2003 at 20:20PM - Zhao spoke with Thomas Lantz and encourage him to call city DEP and Sanitation Dept and also check with 311 number. Referred to DEP at 20:48PM. No spill response

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SPILL NUMBER 0304688 (Continued)**

**S106016745**

Remarks: required.  
 caller states that there is a puddle that smells like raw sewage in the street across from 101 lincoln ave along the harlem river just short of the railroad tracks.

Material:  
 Site ID: 178694  
 Operable Unit ID: 871489  
 Operable Unit: 01  
 Material ID: 505545  
 Material Code: 0063A  
 Material Name: UNKNOWN HAZARDOUS MATERIAL  
 Case No.: Not reported  
 Material FA: Hazardous Material  
 Quantity: 0  
 Units: Gallons  
 Recovered: No  
 Resource Affected: Not reported  
 Oxygenate: False

Tank Test:

**A4  
 Target  
 Property**

**LOT 1,TAXBLOCK 2316  
 101 LINCOLN AVENUE  
 BRONX, NY 10454**

**NY E DESIGNATION S108076743  
 N/A**

**Site 4 of 11 in cluster A**

**Actual:  
 5 ft.**

E DESIGNATION:  
 Tax Lot(s): 1  
 E-No: E-143  
 Effective Date: 3/9/2005  
 Satisfaction Date: Not reported  
 Ceqr Number: 05DCP005X  
 Ulurp Number: 050120 ZMX  
 Zoning Map No: 6a,6b  
 Description: Air Quality - HVAC fuel limited to natural gas  
 Borough Code: BX  
 Community District: 201  
 Census Tract: 81  
 Census Block: 9015  
 School District: 07  
 City Council District: 08  
 Fire Company: E060  
 Health Area: 23  
 Police Precinct: 040  
 Zone District 1: M1-3/R8  
 Zone District 2: Not reported  
 Commercial Overlay1: Not reported  
 Commercial Overlay2: Not reported  
 Special Purpose District1: MX-1  
 Special Purpose District2: Not reported  
 All Components1: M1-3/R8/MX-1  
 All Components2: Not reported  
 Split Boundary Indicator: N  
 Building Class: G1  
 Land Use Category: 10

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 1,TAXBLOCK 2316 (Continued)**

**S108076743**

Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: GEROSA INC  
Lot Area: 000133700  
Total Building Floor Area: 00000083064  
Commercial Floor Area: 00000083064  
Office Floor Area: 00000007000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000076064  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00002  
Number of Floors: 002.00  
Residential Units: 00000  
Non and Residential Units: 00002  
Lot Frontage: 0333.08  
Lot Depth: 0430.00  
Building Frontage: 0120.67  
Building Depth: 0346.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 1  
Basement Type Grade: 5  
Land Assessed Value: 00000397800  
Total Assessed Value: 00001335000  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1966  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.62  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023160001  
Condominium Number: 00000  
Census Tract 2: 0081  
X Coordinate: 1003410  
Y Coordinate: 0233415  
Zoning Map: 06A  
Sanborn Map: 209S004  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 1,TAXBLOCK 2316 (Continued)**

**S108076743**

Tax Lot(s): 1  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Underground Gasoline Storage Tanks\* Testing Protocol.  
Borough Code: BX  
Community District: 201  
Census Tract: 81  
Census Block: 9015  
School District: 07  
City Council District: 08  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: G1  
Land Use Category: 10  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: GEROSA INC  
Lot Area: 000133700  
Total Building Floor Area: 00000083064  
Commercial Floor Area: 00000083064  
Office Floor Area: 00000007000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000076064  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00002  
Number of Floors: 002.00  
Residential Units: 00000  
Non and Residential Units: 00002  
Lot Frontage: 0333.08  
Lot Depth: 0430.00  
Building Frontage: 0120.67  
Building Depth: 0346.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 1  
Basement Type Grade: 5  
Land Assessed Value: 00000397800  
Total Assessed Value: 00001335000  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 1,TAXBLOCK 2316 (Continued)**

**S108076743**

Year Built: 1966  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.62  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023160001  
Condominium Number: 00000  
Census Tract 2: 0081  
X Coordinate: 1003410  
Y Coordinate: 0233415  
Zoning Map: 06A  
Sanborn Map: 209S004  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1  
  
Tax Lot(s): 1  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 81  
Census Block: 9015  
School District: 07  
City Council District: 08  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: G1  
Land Use Category: 10  
Number of Easements: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 1,TAXBLOCK 2316 (Continued)**

**S108076743**

Owner, Type of Code: P  
Owner Name: GEROSA INC  
Lot Area: 000133700  
Total Building Floor Area: 00000083064  
Commercial Floor Area: 00000083064  
Office Floor Area: 00000007000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000076064  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00002  
Number of Floors: 002.00  
Residential Units: 00000  
Non and Residential Units: 00002  
Lot Frontage: 0333.08  
Lot Depth: 0430.00  
Building Frontage: 0120.67  
Building Depth: 0346.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 1  
Basement Type Grade: 5  
Land Assessed Value: 00000397800  
Total Assessed Value: 00001335000  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1966  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.62  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023160001  
Condominium Number: 00000  
Census Tract 2: 0081  
X Coordinate: 1003410  
Y Coordinate: 0233415  
Zoning Map: 06A  
Sanborn Map: 209S004  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A5  
Target  
Property

GEROSA, INC  
101 LINCOLN AV  
BX, NY 10454

NY HIST UST

U000409107  
N/A

Site 5 of 11 in cluster A

Actual:  
5 ft.

HIST UST:

PBS Number: 2-350559  
SPDES Number: Not reported  
Emergency Contact: JOHN LOCK  
Emergency Telephone: (201) 664-8998  
Operator: GEROSA, INC  
Operator Telephone: (212) 585-1800  
Owner Name: GEROSA, INC  
Owner Address: 101 LINCOLN AV  
Owner City,St,Zip: BX, NY 10454  
Owner Telephone: (212) 585-1800  
Owner Type: Not reported  
Owner Subtype: Not reported  
Mailing Name: GEROSA, INC  
Mailing Address: 101 LINCOLN AV  
Mailing Address 2: Not reported  
Mailing City,St,Zip: BX, NY 10454  
Mailing Contact: Not reported  
Mailing Telephone: (212) 585-1800  
Owner Mark: First Owner  
Facility Status: 2 - Unregulated by PBS (the total capacity is less than 1,101 gallons)  
and Subpart 360-14.  
Facility Addr2: 101 LINCOLN AV  
SWIS ID: 6001  
Old PBS Number: Not reported  
Facility Type: Not reported  
Inspected Date: Not reported  
Inspector: Not reported  
Inspection Result: Not reported  
Federal ID: Not reported  
Certification Flag: False  
Certification Date: 06/28/1988  
Expiration Date: 06/28/1993  
Renew Flag: False  
Renewal Date: Not reported  
Total Capacity: 0  
FAMT: True  
Facility Screen: Minor Data Missing  
Owner Screen: Minor Data Missing  
Tank Screen: 0  
Dead Letter: False  
CBS Number: Not reported  
Town or City: NEW YORK CITY  
County Code: 60  
Town or City: 01  
Region: 2  
  
Tank Id: 01D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEROSA, INC (Continued)**

**U000409107**

Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 01G  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: UNLEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 02D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEROSA, INC (Continued)**

**U000409107**

Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 02G  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: UNLEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 03D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEROSA, INC (Continued)**

**U000409107**

Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 04D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 05D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEROSA, INC (Continued)**

**U000409107**

Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 06D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 07D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEROSA, INC (Continued)**

**U000409107**

Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 08D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 09D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEROSA, INC (Continued)**

**U000409107**

Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 10D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 11D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEROSA, INC (Continued)**

**U000409107**

Lat/long: Not reported

Tank Id: 12D  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: 03/01/1968  
Capacity (gals): 550  
Product Stored: DIESEL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Submersible  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 12/01/1991  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

**A6  
Target  
Property**

**VERIZON NEW YORK INC. (NY90513)  
101 LINCOLN AVENUE  
BRONX, NY 10454**

**NY AST A100382330  
N/A**

**Site 6 of 11 in cluster A**

**Actual:  
5 ft.**

AST:  
Region: STATE  
DEC Region: 2  
Site Status: Unregulated  
Facility Id: 2-350559  
Program Type: PBS  
UTM X: 590249.80157999997  
UTM Y: 4517864.7055200003  
Expiration Date: N/A  
Site Type: Utility (Other than Municipal)

**Tank Info:**

Tank Number: 1  
Tank Id: 217540  
Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 04/15/2007  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VERIZON NEW YORK INC. (NY90513) (Continued)**

**A100382330**

Next Test Date: Not reported  
Date Tank Closed: 10/31/2007  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 04/20/2012  
Material Name: Not reported

**A7  
Target  
Property**

**CON EDISON  
F/O 101 LINCOLN AVE  
BRONX, NY 10454**

**NY MANIFEST S113495713  
N/A**

**Site 7 of 11 in cluster A**

**Actual:  
5 ft.**

NY MANIFEST:  
EPA ID: NYP004294294  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: TOM TEELING  
Mailing Address: 4 IRVING PLACE - 15TH FLOOR  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 18-Mar-2013 00:00:00  
Trans1 Recv Date: 18-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 21-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004294294  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1000  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 007656586JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495713**

Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 18-Mar-2013 00:00:00  
Trans1 Recv Date: 18-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 21-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004294294  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1000  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 007656586JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

**A8**

**BRONX GRIT CHAMBER  
BRUDENER BLVD  
NEW YORK CITY, NY**

**NY Spills S102145613  
N/A**

**< 1/8  
1 ft.**

**Site 8 of 11 in cluster A**

**Relative:  
Higher**

**SPILLS:**  
Facility ID: 8909440  
Facility Type: ER  
DER Facility ID: 106845  
Site ID: 123253  
DEC Region: 2  
Spill Date: 12/29/1989  
Spill Number/Closed Date: 8909440 / 12/29/1989  
Spill Cause: Equipment Failure  
Spill Class: Not reported  
SWIS: 0301

**Actual:  
6 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRONX GRIT CHAMBER (Continued)**

**S102145613**

Investigator: TOMASELLO  
Referred To: Not reported  
Reported to Dept: 12/29/1989  
CID: Not reported  
Water Affected: HARLEM & EAST RIVERS  
Spill Source: Commercial/Industrial  
Spill Notifier: Local Agency  
Cleanup Ceased: 12/29/1989  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1/24/1990  
Spill Record Last Update: 1/5/1998  
Spiller Name: Not reported  
Spiller Company: CON EDISON  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Not reported  
Remarks: CON EDISON POWER FAILURE CAUSED BY FIRE, REFER TO SPILL # 8909439,

Material:  
Site ID: 123253  
Operable Unit ID: 936612  
Operable Unit: 01  
Material ID: 442605  
Material Code: 0062A  
Material Name: RAW SEWAGE  
Case No.: Not reported  
Material FA: Other  
Quantity: -1  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**A9** 222181; E. 132 ST  
E. 132 ST  
< 1/8  
1 ft.

**NY Spills S110750612**  
**N/A**

**Site 9 of 11 in cluster A**

**Relative:** SPILLS:  
**Higher** Facility ID: 1009184  
Facility Type: ER  
**Actual:** DER Facility ID: 397560  
**6 ft.** Site ID: 442587  
DEC Region: 2  
Spill Date: 6/30/2010  
Spill Number/Closed Date: 1009184 / 6/30/2010  
Spill Cause: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**222181; E. 132 ST (Continued)**

**S110750612**

Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 0301

Investigator: DMPOKRZY

Referred To: Not reported

Reported to Dept: 6/30/2010

CID: Not reported

Water Affected: Not reported

Spill Source: Commercial/Industrial

Spill Notifier: Responsible Party

Cleanup Ceased: Not reported

Cleanup Meets Std: False

Last Inspection: Not reported

Recommended Penalty: False

UST Trust: False

Remediation Phase: 0

Date Entered In Computer: 11/24/2010

Spill Record Last Update: 11/24/2010

Spiller Name: ERT DESK

Spiller Company: CON EDISON

Spiller Address: 5030 BROADWAY

Spiller City,St,Zip: New York, NY

Spiller Company: 001

Contact Name: ERT DESK

Contact Phone: (212) 580-8383

DEC Memo: Not reported

Remarks: Street Address = E. 132 StSpill Volume = 1Unit of Measure = GallonsSubstance Name = Unknown OilCause Reason = UnknownStatus Reason = Agency Approval Not Required

Material:

Site ID: 442587

Operable Unit ID: 1193089

Operable Unit: 01

Material ID: 2188494

Material Code: 0066A

Material Name: UNKNOWN PETROLEUM

Case No.: Not reported

Material FA: Petroleum

Quantity: 1

Units: Gallons

Recovered: Not reported

Resource Affected: Not reported

Oxygenate: False

Tank Test:

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**A10**      **222162; E 132 ST**  
**E 132 ST**  
**< 1/8**      **BRONX, NY**  
**1 ft.**

**NY Spills**      **S110750608**  
**N/A**

**Site 10 of 11 in cluster A**

**Relative:**  
**Higher**

**Actual:**  
**6 ft.**

**SPILLS:**

Facility ID: 1009179  
Facility Type: ER  
DER Facility ID: 397537  
Site ID: 442563  
DEC Region: 2  
Spill Date: 6/29/2010  
Spill Number/Closed Date: 1009179 / 6/30/2010  
Spill Cause: Unknown  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

**SWIS:** 0301  
Investigator: DMPOKRZY  
Referred To: Not reported  
Reported to Dept: 6/30/2010  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 11/24/2010  
Spill Record Last Update: 11/24/2010  
Spiller Name: ERT DESK  
Spiller Company: CON EDISON  
Spiller Address: 5030 BROADWAY  
Spiller City,St,Zip: New York, NY  
Spiller Company: 001  
Contact Name: ERT DESK  
Contact Phone: (212) 580-8383  
DEC Memo: Not reported  
Remarks: Street Address = s/s E 132 st opp nnc Willow AveSpill Volume = 8Unit of Measure = Ounces (Fluid)Substance Name = Unknown OilCause Reason = UnknownStatus Reason = Agency Approval Not Required

**Material:**

Site ID: 442563  
Operable Unit ID: 1193065  
Operable Unit: 01  
Material ID: 2188493  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

222162; E 132 ST (Continued)

S110750608

Tank Test:

A11  
< 1/8  
1 ft.

221514; E 132 ST  
E 132 ST  
BRONX, NY

NY Spills S110750532  
N/A

Site 11 of 11 in cluster A

Relative:  
Higher

Actual:  
6 ft.

SPILLS:

Facility ID: 1009100  
Facility Type: ER  
DER Facility ID: 397537  
Site ID: 442562  
DEC Region: 2  
Spill Date: 5/18/2010  
Spill Number/Closed Date: 1009100 / 5/21/2010  
Spill Cause: Equipment Failure  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS:

Investigator: DMPOKRZY  
Referred To: Not reported  
Reported to Dept: 6/30/2010  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 11/24/2010  
Spill Record Last Update: 11/24/2010  
Spiller Name: ERT DESK  
Spiller Company: CON EDISON  
Spiller Address: 5030 BROADWAY  
Spiller City,St,Zip: New York, NY  
Spiller Company: 001  
Contact Name: ERT DESK  
Contact Phone: (212) 580-8383  
DEC Memo: Not reported  
Remarks: Street Address = n/s E 132 st 385' wwc Walnut Ave Spill Volume = 1 Unit of Measure = Gallons Substance Name = Hydraulic Fluid Cause Reason = Aged equipment Status Reason = Agency Approval Not Required

Material:

Site ID: 442562  
Operable Unit ID: 1193064  
Operable Unit: 01  
Material ID: 2188459  
Material Code: 0010  
Material Name: Hydraulic Oil  
Case No.: Not reported  
Material FA: Petroleum

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**221514; E 132 ST (Continued)**

**S110750532**

Quantity: 1  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**B12  
SE  
< 1/8  
0.005 mi.  
27 ft.**

**CON EDISON MANHOLE 20965  
LINCOLN AVE & E 132 ST  
BRONX, NY 10454**

**RCRA NonGen / NLR 1010327376  
NY MANIFEST NYP004146064**

**Site 1 of 15 in cluster B**

**Relative:  
Higher**

RCRA NonGen / NLR:  
Date form received by agency: 01/11/2007  
Facility name: CON EDISON MANHOLE 20965  
Facility address: LINCOLN AVE & E 132 ST  
BRONX, NY 10454

**Actual:  
9 ft.**

EPA ID: NYP004146064  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: MICHAEL D'AGOSTINO  
Contact address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact country: US  
Contact telephone: (212) 580-8383  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/10/2007  
Facility name: CON EDISON MANHOLE 20965  
Site name: CON EDISON  
Classification: Not a generator, verified

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE 20965 (Continued)**

**1010327376**

Date form received by agency: 01/09/2007  
Facility name: CON EDISON MANHOLE 20965  
Site name: CON EDISON  
Classification: Unverified

Violation Status: No violations found

NY MANIFEST:

EPA ID: NYP004146064  
Country: USA  
Mailing Name: CONSOLIDATED EDISON  
Mailing Contact: FRANKLYN MURRAY  
Mailing Address: 4 IRVING PL RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

NY MANIFEST:

No Manifest Records Available

**B13  
SE  
< 1/8  
0.005 mi.  
27 ft.**

**CON EDISON MANHOLE 20964  
LINCOLN AVE & E 132 ST  
BRONX, NY 10454**

**RCRA NonGen / NLR 1010327380  
NYP004146080**

**Site 2 of 15 in cluster B**

**Relative:  
Higher**

RCRA NonGen / NLR:

Date form received by agency: 01/11/2007  
Facility name: CON EDISON MANHOLE 20964  
Facility address: LINCOLN AVE & E 132 ST  
BRONX, NY 10454  
EPA ID: NYP004146080  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: MICHAEL D'AGOSTINO  
Contact address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact country: US  
Contact telephone: (212) 580-8383  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Actual:  
9 ft.**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE 20964 (Continued)**

**1010327380**

Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/10/2007  
Facility name: CON EDISON MANHOLE 20964  
Site name: CON EDISON  
Classification: Not a generator, verified

Date form received by agency: 01/09/2007  
Facility name: CON EDISON MANHOLE 20964  
Site name: CON EDISON  
Classification: Unverified

Violation Status: No violations found

**B14  
SE  
< 1/8  
0.005 mi.  
27 ft.**

**ONE QUART OIL IN MANHOLE # 20964  
EAST 132 & LINCOLN AVENUE  
BRONX, NY**

**NY Spills S108294939  
N/A**

**Site 3 of 15 in cluster B**

**Relative:  
Higher**

SPILLS:

Facility ID: 0607952  
Facility Type: ER  
DER Facility ID: 321543  
Site ID: 371800  
DEC Region: 2  
Spill Date: 10/10/2006  
Spill Number/Closed Date: 0607952 / 12/21/2006  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:  
9 ft.**

SWIS: 0301  
Investigator: GDBREEN  
Referred To: Not reported  
Reported to Dept: 10/12/2006  
CID: 444  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 10/12/2006  
Spill Record Last Update: 12/21/2006  
Spiller Name: ERTS  
Spiller Company: CON EDISON MH #20964  
Spiller Address: EAST 132ND/LINCOLN AVE  
Spiller City,St,Zip: BRONX, NY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ONE QUART OIL IN MANHOLE # 20964 (Continued)**

**S108294939**

Spiller Company: 001  
Contact Name: ERTS  
Contact Phone: (212) 580-8383  
DEC Memo: 12/21/06 - See e-docs for Con Ed report detailing cleanup and closure.202835. see eDocs. also see 0607951  
Remarks: 1 QUART ON 2000 GALLONS OF WATER: DUE TO NO ACCESS: CONED # 202835  
Material:  
Site ID: 371800  
Operable Unit ID: 1129553  
Operable Unit: 01  
Material ID: 2119222  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**B15  
SE  
< 1/8  
0.005 mi.  
27 ft.**

**CONSOLIDATED EDISON  
132ND & LINCOLN AVE  
BRONX, NY**

**NY MANIFEST  
NY Spills**

**S108294938  
N/A**

**Site 4 of 15 in cluster B**

**Relative:  
Higher**

NY MANIFEST:  
EPA ID: NYP004146080  
Country: USA  
Mailing Name: CONSOLIDATED EDISON  
Mailing Contact: FRANKLYN MURRAY  
Mailing Address: 4 IRVING PL RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

**Actual:  
9 ft.**

NY MANIFEST:

No Manifest Records Available

EPA ID: NYP004157962  
Country: USA  
Mailing Name: CONSOLIDATED EDISON  
Mailing Contact: FRANKLYN MURRAY  
Mailing Address: 4 IRVING PL RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S108294938**

Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

NY MANIFEST:  
No Manifest Records Available

**SPILLS:**

Facility ID: 9901434  
Facility Type: ER  
DER Facility ID: 243927  
Site ID: 301865  
DEC Region: 2  
Spill Date: 5/6/1999  
Spill Number/Closed Date: 9901434 / 4/2/2002  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: CAENGELH  
Referred To: Not reported  
Reported to Dept: 5/6/1999  
CID: 257  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Affected Persons  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/6/1999  
Spill Record Last Update: 4/2/2002  
Spiller Name: Not reported  
Spiller Company: UNKNOWN  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: STEVE ROMERO  
Contact Phone: (212) 580-6763  
DEC Memo:

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ENGELHARDT"DEC INSPECTOR NOTES5-21-99 E-Mailed ERTs for E2MIS report (sent option to deliver on 5-22)CON ED E2MIS NOTES 5-22-992 qts. of unknown oil and approx. 2000gals. of water found in MH17436. MH plate 5-a-3 does not show any sewer connection. Water and oil are both contained in the structure. A one qt. sample was taken and put in for a one day turn around.Lab Seq#99-04728 ; 0ppm, no Aroclor5-10-99Job completed and tag removed.  
Remarks: 2 QUARTS OIL ON 2000 GALS OF WATER - CLEANUP PENDING TEST RESULTSREF #124697

**Material:**

Site ID: 301865  
Operable Unit ID: 1080200  
Operable Unit: 01  
Material ID: 304981

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S108294938**

Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 0607951  
Facility Type: ER  
DER Facility ID: 321542  
Site ID: 371798  
DEC Region: 2  
Spill Date: 10/10/2006  
Spill Number/Closed Date: 0607951 / 12/21/2006  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: GDBREEN  
Referred To: Not reported  
Reported to Dept: 10/12/2006  
CID: 444  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 10/12/2006  
Spill Record Last Update: 12/21/2006  
Spiller Name: ERTS  
Spiller Company: CON EDISON MH #20965  
Spiller Address: 132ND STREET/LINCOLN AVE  
Spiller City,St,Zip: BRONX, NY  
Spiller Company: 001  
Contact Name: ERTS  
Contact Phone: (212) 580-8383  
DEC Memo: 12/21/06 - See e-docs for Con Ed report detailing cleanup and closure.202830. see eDocs. also see 0607952  
Remarks: ON 2000 GALLONS OF WATER : COMING OFF DUE TO NO ACCESS AT THIS TIME: CONED# 202830  
Material:  
Site ID: 371798  
Operable Unit ID: 1129551  
Operable Unit: 01  
Material ID: 2119221  
Material Code: 0066A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S108294938**

Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**B16**  
**SE**  
**< 1/8**  
**0.005 mi.**  
**27 ft.**

**ONE PINT OIL IN MANHOLE 31223**  
**LINCOLN AVENUE & EAST 132 STREET**  
**BRONX, NY**

**NY Spills S108636892**  
**N/A**

**Site 5 of 15 in cluster B**

**Relative:**  
**Higher**

**SPILLS:**

Facility ID: 0701493  
Facility Type: ER  
DER Facility ID: 330380  
Site ID: 380963  
DEC Region: 2  
Spill Date: 5/6/2007  
Spill Number/Closed Date: 0701493 / 5/23/2007  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**9 ft.**

**SWIS:**

Investigator: gdbreen  
Referred To: Not reported  
Reported to Dept: 5/6/2007  
CID: 78  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/7/2007  
Spill Record Last Update: 5/23/2007  
Spiller Name: Not reported  
Spiller Company: CON EDISON  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ -  
Spiller Company: 999  
Contact Name: ERTSDESK  
Contact Phone: (212) 580-8383  
DEC Memo: 05/23/07 - See e-docs for Con Ed report detailing cleanup and closure.205691. see eDocs

Remarks: possible 1 pt cable oil in the manhole runs along the bronx river nrc 834483 contacted 205691

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ONE PINT OIL IN MANHOLE 31223 (Continued)**

**S108636892**

Material:  
Site ID: 380963  
Operable Unit ID: 1138429  
Operable Unit: 01  
Material ID: 2128419  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**B17  
SE  
< 1/8  
0.005 mi.  
27 ft.**

**POLE 18025  
EAST 132ND STREET & LINCOLN AVE  
BRONX, NY**

**NY Spills S112230189  
N/A**

**Site 6 of 15 in cluster B**

**Relative:  
Higher**

SPILLS:  
Facility ID: 1210172  
Facility Type: ER  
DER Facility ID: 427485  
Site ID: 473247  
DEC Region: 2  
Spill Date: 11/12/2012  
Spill Number/Closed Date: 1210172 / Not Reported  
Spill Cause: Storm  
Spill Class: Not reported  
SWIS: 0301  
Investigator: Con Ed Unassigned  
Referred To: Not reported  
Reported to Dept: 11/12/2012  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 1  
Date Entered In Computer: 11/12/2012  
Spill Record Last Update: 5/15/2013  
Spiller Name: TOM ENRIGHT  
Spiller Company: CON ED  
Spiller Address: EAST 132 STREET & LINCOLN AVE  
Spiller City,St,Zip: BRONX, NY  
Spiller Company: 999  
Contact Name: TOM ENRIGHT  
Contact Phone: 2125) 806-763

**Actual:  
9 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POLE 18025 (Continued)**

**S112230189**

DEC Memo: Not reported  
Remarks: Slow leak continues.  
Material:  
Site ID: 473247  
Operable Unit ID: 1223096  
Operable Unit: 01  
Material ID: 2221849  
Material Code: 0541A  
Material Name: DIELECTRIC FLUID  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 2  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**B18**  
**East**  
**< 1/8**  
**0.007 mi.**  
**35 ft.**

**WASTE MANAGEMENT OF NEW YORK LLC**  
**98 LINCOLN AVE**  
**BRONX, NY 10454**  
**Site 7 of 15 in cluster B**

**RCRA NonGen / NLR** **1010325159**  
**NYN008015679**

**Relative:**  
**Higher**  
**Actual:**  
**9 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007  
Facility name: WASTE MANAGEMENT OF NEW YORK LLC  
Facility address: 98 LINCOLN AVE  
BRONX, NY 10454  
EPA ID: NYN008015679  
Mailing address: LINCOLN AVE  
BRONX, NY 10454  
Contact: JOE RANISLO  
Contact address: LINCOLN AVE  
BRONX, NY 10454  
Contact country: US  
Contact telephone: (718) 401-4126  
Contact email: Not reported  
EPA Region: 02  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:  
U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WASTE MANAGEMENT OF NEW YORK LLC (Continued)**

**1010325159**

User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 04/25/2006  
Facility name: WASTE MANAGEMENT OF NEW YORK LLC  
Classification: Not a generator, verified

Date form received by agency: 04/24/2006  
Facility name: WASTE MANAGEMENT OF NEW YORK LLC  
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 09/22/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 12/26/2003  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**B19**  
**East**  
**< 1/8**  
**0.007 mi.**  
**35 ft.**

**USA WASTE SERVICES OF NYC, INC.**  
**98 LINCOLN AVENUE**  
**BRONX, NY 10454**

**NY AST A100296515**  
**N/A**

**Site 8 of 15 in cluster B**

**Relative:**  
**Higher**

AST:  
Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-607746  
Program Type: PBS  
UTM X: 590353.97760999994  
UTM Y: 4518069.9100700002  
Expiration Date: 2017/05/03  
Site Type: Other

**Actual:**  
**9 ft.**

Affiliation Records:  
Site Id: 29598  
Affiliation Type: Facility Owner  
Company Name: WASTE MANAGEMENT OF NY, LLC  
Contact Type: ENVIRONMENTAL MANAGER  
Contact Name: JAY KAPLAN  
Address1: 123 VARICK AVENUE  
Address2: Not reported  
City: BROOKLYN  
State: NY  
Zip Code: 11237



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**USA WASTE SERVICES OF NYC, INC. (Continued)**

**A100296515**

Country Code: 001  
Phone: (718) 533-5310  
EMail: JKAPLAN2@WM.COM  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 6/21/2010

Site Id: 29598  
Affiliation Type: Mail Contact  
Company Name: WASTE MANAGEMENT OF NY, LLC  
Contact Type: ENVIRONMENTAL MANAGER  
Contact Name: JAY KAPLAN  
Address1: 123 VARICK AVENUE  
Address2: Not reported  
City: BROOKLYN  
State: NY  
Zip Code: 11237  
Country Code: 001  
Phone: (718) 533-5310  
EMail: JKAPLAN2@WM.COM  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 6/21/2010

Site Id: 29598  
Affiliation Type: On-Site Operator  
Company Name: USA WASTE SERVICES OF NYC, INC.  
Contact Type: Not reported  
Contact Name: JOE RANIOLO  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 401-4126  
EMail: Not reported  
Fax Number: Not reported  
Modified By: KXTANG  
Date Last Modified: 2/5/2007

Site Id: 29598  
Affiliation Type: Emergency Contact  
Company Name: WASTE MANAGEMENT OF NY, LLC  
Contact Type: Not reported  
Contact Name: JAY KAPLAN  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 533-5310  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/4/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

USA WASTE SERVICES OF NYC, INC. (Continued)

A100296515

Tank Info:

Tank Number: 001  
Tank Id: 63444  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
A00 - Tank Internal Protection - None  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
K01 - Spill Prevention - Catch Basin  
G01 - Tank Secondary Containment - Diking (Aboveground)  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
L00 - Piping Leak Detection - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/2001  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 04/13/2012  
Material Name: Waste Oil/Used Oil

Tank Number: 002  
Tank Id: 63445  
Material Code: 0013  
Common Name of Substance: Lube Oil

Equipment Records:

D00 - Pipe Type - No Piping  
B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
G01 - Tank Secondary Containment - Diking (Aboveground)  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
E01 - Piping Secondary Containment - Diking (Aboveground)  
H00 - Tank Leak Detection - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**USA WASTE SERVICES OF NYC, INC. (Continued)**

**A100296515**

Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/2001  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 04/13/2012  
Material Name: Lube Oil

Tank Number: 003  
Tank Id: 63446  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

I02 - Overfill - High Level Alarm  
B01 - Tank External Protection - Painted/Asphalt Coating  
H05 - Tank Leak Detection - In-Tank System (ATG)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
G01 - Tank Secondary Containment - Diking (Aboveground)  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None  
F01 - Pipe External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
I05 - Overfill - Vent Whistle

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1999  
Capacity Gallons: 180  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 04/13/2012  
Material Name: Diesel

Tank Number: 004  
Tank Id: 231440  
Material Code: 0010  
Common Name of Substance: Hydraulic Oil

Equipment Records:

D11 - Pipe Type - Flexible Piping

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

USA WASTE SERVICES OF NYC, INC. (Continued)

A100296515

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
G10 - Tank Secondary Containment - Impervious Underlayment  
J02 - Dispenser - Suction Dispenser  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/15/2004  
Capacity Gallons: 330  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 11/04/2009  
Material Name: Hydraulic Oil

Tank Number: 005  
Tank Id: 231441  
Material Code: 0010  
Common Name of Substance: Hydraulic Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
K01 - Spill Prevention - Catch Basin  
D11 - Pipe Type - Flexible Piping  
A00 - Tank Internal Protection - None  
G10 - Tank Secondary Containment - Impervious Underlayment  
J02 - Dispenser - Suction Dispenser  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/15/2004  
Capacity Gallons: 330  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: NRLOMBAR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**USA WASTE SERVICES OF NYC, INC. (Continued)**

**A100296515**

Last Modified: 11/04/2009  
Material Name: Hydraulic Oil

**B20**  
**East**  
**< 1/8**  
**0.007 mi.**  
**35 ft.**

**WMNY LLC HARLEM RIVER YARD**  
**98 LINCOLN AVENUE**  
**BRONX, NY 10454**

**NY SWF/LF**  
**NY Spills**  
**NY Financial Assurance**

**S104787673**  
**N/A**

**Site 9 of 15 in cluster B**

**Relative:**  
**Higher**

SWF/LF:

**Actual:**  
**9 ft.**

Flag: ACTIVE  
Region Code: 2  
Phone Number: 7184014126  
Owner Name: Waste Management of NY; LLC  
Owner Type: Private  
Owner Address: 123 Varick Ave  
Owner Addr2: Not reported  
Owner City,St,Zip: Brooklyn, NY 11237  
Owner Email: Not reported  
Owner Phone: 7185335310  
Contact Name: Jay Kaplan  
Contact Address: Not reported  
Contact Addr2: Not reported  
Contact City,St,Zip: Not reported  
Contact Email: jkaplan2@wm.com  
Contact Phone: 7185335310  
Activity Desc: Transfer station - permit  
Activity Number: [03T79]  
Active: Yes  
East Coordinate: 590307  
North Coordinate: 4517929  
Accuracy Code: Not reported  
Regulatory Status: None  
Waste Type: MSW (Residential/Institutional & Commercial);Construction & Demolition  
Debris  
Authorization #: 260070015900030  
Authorization Date: 07/30/2009  
Expiration Date: 07/30/2014

SPILLS:

Facility ID: 0004999  
Facility Type: ER  
DER Facility ID: 156468  
Site ID: 187277  
DEC Region: 2  
Spill Date: 7/26/2000  
Spill Number/Closed Date: 0004999 / 2/13/2003  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: MXTIPPLE  
Referred To: Not reported  
Reported to Dept: 7/26/2000  
CID: 365  
Water Affected: Not reported  
Spill Source: Commercial/Industrial

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WMNY LLC HARLEM RIVER YARD (Continued)**

**S104787673**

Spill Notifier: DEC  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 7/26/2000  
Spill Record Last Update: 2/13/2003  
Spiller Name: Not reported  
Spiller Company: WASTE MANAGEMENT FACILITY  
Spiller Address: 98 LINCOLN AV  
Spiller City,St,Zip: BRONX, ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was

Remarks:

"TIPPLE"07/26/2000 SITE VISIT AS PER INSTRUCTED BY MR. AUSTIN DEP REPRESENTATIVE ANDTWO ECO'S ON SCENE WITH FIVE REPRESENTATIVES FROM COLUMBIA UNIVERSITY. COLUMBIA UNIVERSITY TAKING RESPONSIBILITY CALLED IN SAFETY CLEAN TO PROPERLY REMOVE AND DISPOSE OF CHEMICALS, ECO'S GAVE TICKETS, ECO'S TOOK SAMPLES, DEP TAKING SAMPLES TO THEIR OFFICE FOR A DEC AUTHORIZED LAB TO PICK THEM UP FOR TESTING.  
dep and sanitation dept are on scene handling the chemicals - the sodium chloride, soldium hydroxide, and sodium azide have not spills but there is a yellow liquid that is currently spilling but the label has worn off the container - the cause of spill is the waste maangement co p/u what was supposed to be garbage but then they noticed material spilling - they are assuming the yellow material is hazardous - nyc hazmat is also on scene - notification only

Material:

Site ID: 187277  
Operable Unit ID: 826044  
Operable Unit: 01  
Material ID: 549737  
Material Code: 0038E  
Material Name: WHITE CAUSTIC  
Case No.: 01310732  
Material FA: Hazardous Material  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 187277  
Operable Unit ID: 826044  
Operable Unit: 01  
Material ID: 549739  
Material Code: 0253A  
Material Name: SODIUM AZIDE (NA(N3))  
Case No.: 26628228  
Material FA: Hazardous Material  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WMNY LLC HARLEM RIVER YARD (Continued)**

**S104787673**

Site ID: 187277  
Operable Unit ID: 826044  
Operable Unit: 01  
Material ID: 549740  
Material Code: 1700A  
Material Name: SODIUM CHLORIDE  
Case No.: Not reported  
Material FA: Other  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 187277  
Operable Unit ID: 826044  
Operable Unit: 01  
Material ID: 549738  
Material Code: 0063A  
Material Name: UNKNOWN HAZARDOUS MATERIAL  
Case No.: Not reported  
Material FA: Hazardous Material  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 0005007  
Facility Type: ER  
DER Facility ID: 141269  
Site ID: 167679  
DEC Region: 2  
Spill Date: 7/26/2000  
Spill Number/Closed Date: 0005007 / 2/13/2003  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: MXTIPPLE  
Referred To: Not reported  
Reported to Dept: 7/26/2000  
CID: 252  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 7/26/2000  
Spill Record Last Update: 2/13/2003  
Spiller Name: KURT KLEIN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WMNY LLC HARLEM RIVER YARD (Continued)**

**S104787673**

Spiller Company: COLUMBIA UNIVERSITY  
Spiller Address: 630 W 168TH ST  
Spiller City,St,Zip: MANHATTAN, NY 10032-  
Spiller Company: 001  
Contact Name: ED MULLEN  
Contact Phone: (718) 401-4126  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
"TIPPLE" same as 0004999

Remarks: MATERIAL WAS DISPOSED OF IN DUMPSTER AT WASTE MANAGEMENT APPEARSTO BE  
ORANGE IN COLOR. APPROX 15 GALLONS - REQ CALL BACK FORCONTRACTOR ON  
SITE- 917-376-4478

Material:

Site ID: 167679  
Operable Unit ID: 826051  
Operable Unit: 01  
Material ID: 549747  
Material Code: 0063A  
Material Name: UNKNOWN HAZARDOUS MATERIAL  
Case No.: Not reported  
Material FA: Hazardous Material  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 167679  
Operable Unit ID: 826051  
Operable Unit: 01  
Material ID: 549748  
Material Code: 0064A  
Material Name: UNKNOWN MATERIAL  
Case No.: Not reported  
Material FA: Other  
Quantity: 15  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 0412457  
Facility Type: ER  
DER Facility ID: 141269  
Site ID: 337939  
DEC Region: 2  
Spill Date: 2/23/2005  
Spill Number/Closed Date: 0412457 / 3/29/2005  
Spill Cause: Equipment Failure  
Spill Class: Not reported  
SWIS: 0301  
Investigator: RWAUSTIN  
Referred To: Not reported  
Reported to Dept: 2/23/2005  
CID: 444



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WMNY LLC HARLEM RIVER YARD (Continued)**

**S104787673**

Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2/24/2005  
Spill Record Last Update: 3/29/2005  
Spiller Name: Not reported  
Spiller Company: NYC GARBAGE TRUCK  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: JIM VANWOERT  
Contact Phone: (718) 401-4126  
DEC Memo: 3/29/05 - Austin - Minor spill - closed - previously unassigned  
Remarks: IN PROCESS CLEANING UP: HOSE BROKE:

Material:

Site ID: 337939  
Operable Unit ID: 1099948  
Operable Unit: 01  
Material ID: 580223  
Material Code: 0010  
Material Name: Hydraulic Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 8  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 0307269  
Facility Type: ER  
DER Facility ID: 156468  
Site ID: 187278  
DEC Region: 2  
Spill Date: 10/9/2003  
Spill Number/Closed Date: 0307269 / 10/10/2003  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: JMKRIMGO  
Referred To: Not reported  
Reported to Dept: 10/10/2003  
CID: 390  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WMNY LLC HARLEM RIVER YARD (Continued)**

**S104787673**

Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 10/10/2003  
Spill Record Last Update: 10/10/2003  
Spiller Name: CALLER  
Spiller Company: NY POWER AUTHORITY  
Spiller Address: 31-03 20TH AV  
Spiller City,St,Zip: ASTORIA, NY 11105-  
Spiller Company: 001  
Contact Name: CALLER  
Contact Phone: Not reported  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "KRIMGOLD"

Remarks: failure of a 138kv feeder line pothead/bushing caused spill

Material:

Site ID: 187278  
Operable Unit ID: 876025  
Operable Unit: 01  
Material ID: 500821  
Material Code: 2630  
Material Name: Mineral Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 9  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 0611553  
Facility Type: ER  
DER Facility ID: 141269  
Site ID: 376204  
DEC Region: 2  
Spill Date: 1/17/2007  
Spill Number/Closed Date: 0611553 / 1/19/2007  
Spill Cause: Abandoned Drums  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: SMSANGES  
Referred To: Not reported  
Reported to Dept: 1/17/2007  
CID: 444  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WMNY LLC HARLEM RIVER YARD (Continued)**

**S104787673**

Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1/17/2007  
Spill Record Last Update: 1/19/2007  
Spiller Name: ANTHONY  
Spiller Company: HARLEM RIVER YARD VENTURE  
Spiller Address: 98 LINCOLN AVE  
Spiller City,St,Zip: BRONX, NY  
Spiller Company: 001  
Contact Name: ANTHONY  
Contact Phone: (718) 402-6925  
DEC Memo: contractor working for TriBoro Bridge & Tunnel Authority was painting a bridge and left a drum of diesel under the bridge leaking. Anthony at Harlem River Yard says that they have been called and say they will remove the drum and dig out the impacted soil. This work needs to be confirmed with a call to Anthony (718-402-6925) 1/19/2007 Sangesland confirmed drum was removed and impacted soil was removed and replaced with clean fill.  
Remarks: ST ANNE'S AND 132ND STREET IS ENTRANCE: NOT LEAKING:

Material:

Site ID: 376204  
Operable Unit ID: 1133805  
Operable Unit: 01  
Material ID: 2123627  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

[Click this hyperlink](#) while viewing on your computer to access additional NY\_SPILL: detail in the EDR Site Report.

NY Financial Assurance 1:

Owner Name: Waste Management of NY; LLC  
Region: 2  
Estimate Type: Closure  
Estimate Amount: \$975,000  
Estimate Date: 03/01/2001  
Mechanism: Surety bond - Performance  
Mechanism Amount: \$1,006,460  
Activity Number: 03T79  
Activity Description: Transfer station - permit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B21**  
**East**  
**< 1/8**  
**0.007 mi.**  
**37 ft.**

**4 GALLON LEAK FROM MACHINE**  
**BRUCKNER BLVD & LINCOLN AVENUE**  
**BRONX, NY**

**NY Spills** **S108130442**  
**N/A**

**Site 10 of 15 in cluster B**

**Relative:**  
**Higher**

**SPILLS:**

Facility ID: 0606203  
Facility Type: ER  
DER Facility ID: 319390  
Site ID: 369513  
DEC Region: 2  
Spill Date: 8/29/2006  
Spill Number/Closed Date: 0606203 / 12/21/2006  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

**Actual:**  
**9 ft.**

**SWIS:** 0301  
Investigator: GDBREEN  
Referred To: Not reported  
Reported to Dept: 8/29/2006  
CID: 77  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 8/30/2006  
Spill Record Last Update: 12/21/2006  
Spiller Name: Not reported  
Spiller Company: CON EDISON 151710  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: ERT DESK  
Contact Phone: (212) 580-8383  
DEC Memo: 12/21/06 - See e-docs for Con Ed report detailing cleanup and closure.202193. see eDocs  
**Remarks:** spill from boring machinery, under concrete. all-state has been contacted to perform clean-up. no to 5 questions. con ed ref# 202193

**Material:**

Site ID: 369513  
Operable Unit ID: 1127346  
Operable Unit: 01  
Material ID: 2116940  
Material Code: 0010  
Material Name: Hydraulic Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 4  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**4 GALLON LEAK FROM MACHINE (Continued)**

**S108130442**

Tank Test:

**B22  
East  
< 1/8  
0.007 mi.  
37 ft.**

**MANHOLE TM 692  
LINCOLN AVE/BRUCKNER BLVD  
BRONX, NY**

**NY Spills S105057752  
N/A**

**Site 11 of 15 in cluster B**

**Relative:  
Higher**

**SPILLS:**

**Actual:  
9 ft.**

Facility ID: 0102330  
Facility Type: ER  
DER Facility ID: 195236  
Site ID: 236983  
DEC Region: 2  
Spill Date: 6/1/2001  
Spill Number/Closed Date: 0102330 / 8/27/2001  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**SWIS:** 0301  
Investigator: KMFOLEY  
Referred To: Not reported  
Reported to Dept: 6/1/2001  
CID: 403  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Affected Persons  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 6/1/2001  
Spill Record Last Update: 8/28/2001  
Spiller Name: Not reported  
Spiller Company: UNKNOWN  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ -  
Spiller Company: 001  
Contact Name: BILL MURPHY  
Contact Phone: (212) 580-6763  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "FOLEY"

Remarks: NO FIRE, SMOKE OR PRIVATE PROPERTY INVOLVED. PCB SAMPLE TAKEN. CLEAN UP TO BEGIN IMMEDIATELY. CON ED #137433.

**Material:**

Site ID: 236983  
Operable Unit ID: 841102  
Operable Unit: 01  
Material ID: 560339  
Material Code: 0064A  
Material Name: UNKNOWN MATERIAL  
Case No.: Not reported  
Material FA: Other  
Quantity: 10

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE TM 692 (Continued)**

**S105057752**

Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**B23**  
**East**  
**< 1/8**  
**0.007 mi.**  
**37 ft.**

**CON EDISON - MH 23964**  
**BRUCKNER BLVD AND LINCOLN AVE**  
**BRONX, NY 10454**  
**Site 12 of 15 in cluster B**

**NY MANIFEST** **S109064704**  
**N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYP004119392  
Country: USA  
Mailing Name: CON EDISON - MH 23964  
Mailing Contact: Not reported  
Mailing Address: Not reported  
Mailing Address 2: Not reported  
Mailing City: Not reported  
Mailing State: Not reported  
Mailing Zip: Not reported  
Mailing Zip4: Not reported  
Mailing Country: Not reported  
Mailing Phone: Not reported

**Actual:**  
**9 ft.**

NY MANIFEST:  
No Manifest Records Available

**B24**  
**East**  
**< 1/8**  
**0.008 mi.**  
**43 ft.**

**E.SIDE BRUCKNER BLVD**  
**60FT. S. LINCOLN AVE.**  
**BRONX, NY**  
**Site 13 of 15 in cluster B**

**NY Spills** **S106384743**  
**N/A**

**Relative:**  
**Higher**

SPILLS:  
Facility ID: 0400305  
Facility Type: ER  
DER Facility ID: 89689  
Site ID: 101194  
DEC Region: 2  
Spill Date: 4/9/2004  
Spill Number/Closed Date: 0400305 / 7/16/2004  
Spill Cause: Human Error  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: JHOCONNE  
Referred To: Not reported  
Reported to Dept: 4/9/2004  
CID: 406  
Water Affected: Not reported  
Spill Source: Unknown

**Actual:**  
**8 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E.SIDE BRUCKNER BLVD (Continued)**

**S106384743**

Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 4/9/2004  
Spill Record Last Update: 7/16/2004  
Spiller Name: ERT DESK  
Spiller Company: CON EDISON  
Spiller Address: 4 IRVING PLACE  
Spiller City,St,Zip: MANHATTAN, NY 10001  
Spiller Company: 001  
Contact Name: ERT DESK  
Contact Phone: (212) 580-8383  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "O'CONNELL"e2mis no. 152860:~ 4 ounces of cable oil on a cement duct bank from an unidentified feeder cable damaged by a contractor. The feeder is pending identification and there is a broken sewer that released raw sewage into the manhole. The area is barricaded and an environmental tag # 34620 has been installed at the location.Cleanup pending further investigation.Emergency Supervisor Tony Tortora (39689) tested dead and cut out damaged piece of 3c800 PILC cable that was leaking. All dead feeder cable ends have been shorted and sealed. The affected area of cement duct was cleaned with simple green degreaser.Environmental tag # 34620 has been removed from the trench. 50-499 PCB check list completed by A. Tortora. Clean up is complete.

Remarks: 4 Oz. of material were spilled at open excavation site. Contractor damaged one of coned cables. Spilled onto a concrete area/ duck bank. Clean up is pending due de-energizing the feeder.

Material:  
Site ID: 101194  
Operable Unit ID: 884658  
Operable Unit: 01  
Material ID: 552345  
Material Code: 0541A  
Material Name: DIELECTRIC FLUID  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B25**  
**SE**  
**< 1/8**  
**0.008 mi.**  
**44 ft.**

**LOT 180,TAXBLOCK 2260**  
**180 EAST 132 STREET**  
**BRONX, NY 10454**

**NY E DESIGNATION**

**S108076762**  
**N/A**

**Site 14 of 15 in cluster B**

**Relative:**  
**Higher**

**E DESIGNATION:**

**Actual:**  
**9 ft.**

Tax Lot(s): 180  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Underground Gasoline Storage Tanks\* Testing Protocol.  
Borough Code: BX  
Community District: 201  
Census Tract: 17  
Census Block: Not reported  
School District: 07  
City Council District: 08  
Fire Company: L029  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M3-1  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: Not reported  
Special Purpose District2: Not reported  
All Components1: M3-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F9  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: 82 WILLIS, LLC  
Lot Area: 000029530  
Total Building Floor Area: 00000027000  
Commercial Floor Area: 00000027000  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000027000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 003.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0369.42  
Lot Depth: 0072.58  
Building Frontage: 0300.58  
Building Depth: 0030.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 6



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 180,TAXBLOCK 2260 (Continued)**

**S108076762**

Basement Type Grade: 5  
Land Assessed Value: 00000058050  
Total Assessed Value: 00000128250  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1888  
Year Built Code: Not reported  
Year Altered1: 1905  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.91  
Maximum Allowable Far: 02.00  
Borough Code: 2  
Borough Tax Block And Lot: 2022600180  
Condominium Number: 00000  
Census Tract 2: 0017  
X Coordinate: Not reported  
Y Coordinate: Not reported  
Zoning Map: Not reported  
Sanborn Map: 209S016  
Tax Map: 20901  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1  
  
Tax Lot(s): 180  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 17  
Census Block: Not reported  
School District: 07  
City Council District: 08  
Fire Company: L029  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M3-1  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: Not reported  
Special Purpose District2: Not reported  
All Components1: M3-1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 180,TAXBLOCK 2260 (Continued)**

**S108076762**

All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F9  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: 82 WILLIS, LLC  
Lot Area: 000029530  
Total Building Floor Area: 00000027000  
Commercial Floor Area: 00000027000  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000027000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 003.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0369.42  
Lot Depth: 0072.58  
Building Frontage: 0300.58  
Building Depth: 0030.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 6  
Basement Type Grade: 5  
Land Assessed Value: 00000058050  
Total Assessed Value: 00000128250  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1888  
Year Built Code: Not reported  
Year Altered1: 1905  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.91  
Maximum Allowable Far: 02.00  
Borough Code: 2  
Borough Tax Block And Lot: 2022600180  
Condominium Number: 00000  
Census Tract 2: 0017  
X Coordinate: Not reported  
Y Coordinate: Not reported  
Zoning Map: Not reported  
Sanborn Map: 209S016  
Tax Map: 20901  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 180,TAXBLOCK 2260 (Continued)**

**S108076762**

Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

**C26  
East  
< 1/8  
0.010 mi.  
52 ft.**

**CON EDISON MANHOLE 23764  
E 133RD ST & 3RD AVE  
BRONX, NY 10453**

**RCRA NonGen / NLR 1010326748  
NY MANIFEST NYP004142857**

**Site 1 of 18 in cluster C**

**Relative:  
Higher**

RCRA NonGen / NLR:

Date form received by agency: 11/17/2006  
Facility name: CON EDISON MANHOLE 23764  
Facility address: E 133RD ST & 3RD AVE  
BRONX, NY 10453

**Actual:  
8 ft.**

EPA ID: NYP004142857  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: ANDREW FIORE  
Contact address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003

Contact country: US  
Contact telephone: (212) 580-8383  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 11/16/2006  
Facility name: CON EDISON MANHOLE 23764  
Site name: CON EDISON  
Classification: Not a generator, verified

Date form received by agency: 11/15/2006  
Facility name: CON EDISON MANHOLE 23764  
Site name: CON EDISON  
Classification: Unverified

Violation Status: No violations found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE 23764 (Continued)**

**1010326748**

NY MANIFEST:

EPA ID: NYP004142857  
Country: USA  
Mailing Name: CONSOLIDATED EDISON  
Mailing Contact: FRANKLIN MURRAY  
Mailing Address: 4 IRVING PLACE RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

Document ID: NYE1300041  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 06/13/2006  
Trans1 Recv Date: 06/13/2006  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/14/2006  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004142857  
Trans1 EPA ID: 69526JR  
Trans2 EPA ID: Not reported  
TSD ID: NYD077444263  
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES  
Quantity: 00054  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 01.00  
Year: 2006

**B27**  
**East**  
**< 1/8**  
**0.010 mi.**  
**53 ft.**

**CON EDISON MANHOLE 31931**  
**LINCOLN AVE & BRUCKNER BLVD**  
**BRONX, NY 10453**

**RCRA NonGen / NLR 1014926575**  
**NYP004243507**

**Site 15 of 15 in cluster B**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

Date form received by agency: 11/21/2011  
Facility name: CON EDISON MANHOLE 31931  
Facility address: LINCOLN AVE & BRUCKNER BLVD  
BRONX, NY 10453  
EPA ID: NYP004243507  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: DENNIS ROHRER  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (914) 925-6219

**Actual:**  
**8 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE 31931 (Continued)**

**1014926575**

Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 10/22/2011  
Facility name: CON EDISON MANHOLE 31931  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

D28  
North  
< 1/8  
0.017 mi.  
90 ft.

VISTA 1  
2401 THIRD AVENUE  
BRONX, NY 10451

NY SHWS S113916759  
N/A

Site 1 of 10 in cluster D

Relative:  
Higher

SHWS:

Program: HW  
Site Code: 437428  
Classification: N  
Region: 2  
Acres: 1.538  
HW Code: 203052  
Record Add: 07/14/2010  
Record Upd: 04/16/2013  
Updated By: RJCOZZY

Site Description: Part of Port Morris Zone 1 BOA.DEC #BOA00032DOS #10BOA002Site  
Investigation could not be funded under BOA since property owner  
would not allow access. No environmental data available for this site.

Not reported  
Env Problem: Not reported  
Health Problem: Not reported  
Dump: Not reported  
Structure: Not reported  
Lagoon: Not reported  
Landfill: Not reported  
Pond: Not reported  
Disp Start: Not reported  
Disp Term: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**VISTA 1 (Continued)**

**S113916759**

Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	Applicant/Requestor
Sub Type:	C04
Owner Name:	Lourdes Zapata
Owner Company:	South Bronx Overall Economic Development Corporation (SoBRO)
Owner Address:	555 Bergen Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 14055
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	C04
Owner Name:	Lourdes Zapata
Owner Company:	South Bronx Overall Economic Development Corporation (SoBRO)
Owner Address:	555 Bergen Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 14055
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

**D29**  
**North**  
**< 1/8**  
**0.017 mi.**  
**90 ft.**

**LOT 2,TAXBLOCK 2319**  
**2401 3 AVENUE**  
**BRONX, NY 10451**  
**Site 2 of 10 in cluster D**

**NY E DESIGNATION**    **S108076766**  
**N/A**

**Relative:**  
**Higher**

<b>E DESIGNATION:</b>	
Tax Lot(s):	2
E-No:	E-143
Effective Date:	3/9/2005
Satisfaction Date:	Not reported
Ceqr Number:	05DCP005X
Ulurp Number:	050120 ZMX
Zoning Map No:	6a,6b
Description:	Air Quality - HVAC fuel limited to natural gas
Borough Code:	BX
Community District:	201
Census Tract:	53.01
Census Block:	9037
School District:	07
City Council District:	17
Fire Company:	E060
Health Area:	23
Police Precinct:	040
Zone District 1:	M1-3/R8
Zone District 2:	Not reported

**Actual:**  
**9 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 2,TAXBLOCK 2319 (Continued)**

**S108076766**

Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: G9  
Land Use Category: 07  
Number of Easements: 0  
Owner, Type of Code: Not reported  
Owner Name: 2401 3RD AVENUE, LLC  
Lot Area: 000067000  
Total Building Floor Area: 00000019450  
Commercial Floor Area: 00000019450  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000019450  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 001.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0159.46  
Lot Depth: 0395.00  
Building Frontage: 0140.00  
Building Depth: 0100.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 3  
Basement Type Grade: 5  
Land Assessed Value: 00000152550  
Total Assessed Value: 00000297450  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1931  
Year Built Code: E  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.29  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190002  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003080  
Y Coordinate: 0233903  
Zoning Map: 06A  
Sanborn Map: 29S 001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 2,TAXBLOCK 2319 (Continued)**

**S108076766**

Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

Tax Lot(s): 2  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Underground Gasoline Storage Tanks\* Testing Protocol.  
Borough Code: BX  
Community District: 201  
Census Tract: 53.01  
Census Block: 9037  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: G9  
Land Use Category: 07  
Number of Easements: 0  
Owner, Type of Code: Not reported  
Owner Name: 2401 3RD AVENUE, LLC  
Lot Area: 000067000  
Total Building Floor Area: 00000019450  
Commercial Floor Area: 00000019450  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000019450  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 001.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0159.46  
Lot Depth: 0395.00  
Building Frontage: 0140.00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 2,TAXBLOCK 2319 (Continued)**

**S108076766**

Building Depth: 0100.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 3  
Basement Type Grade: 5  
Land Assessed Value: 00000152550  
Total Assessed Value: 00000297450  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1931  
Year Built Code: E  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.29  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190002  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003080  
Y Coordinate: 0233903  
Zoning Map: 06A  
Sanborn Map: 29S 001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1  
  
Tax Lot(s): 2  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 53.01  
Census Block: 9037  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 2,TAXBLOCK 2319 (Continued)**

**S108076766**

Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: G9  
Land Use Category: 07  
Number of Easements: 0  
Owner, Type of Code: Not reported  
Owner Name: 2401 3RD AVENUE, LLC  
Lot Area: 000067000  
Total Building Floor Area: 00000019450  
Commercial Floor Area: 00000019450  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000019450  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 001.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0159.46  
Lot Depth: 0395.00  
Building Frontage: 0140.00  
Building Depth: 0100.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 3  
Basement Type Grade: 5  
Land Assessed Value: 00000152550  
Total Assessed Value: 00000297450  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1931  
Year Built Code: E  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0000.29  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190002  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003080  
Y Coordinate: 0233903  
Zoning Map: 06A  
Sanborn Map: 29S 001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 2, TAXBLOCK 2319 (Continued)**

**S108076766**

Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

**C30**  
**ENE**  
**< 1/8**  
**0.021 mi.**  
**110 ft.**

**112 LINCOLN AVE.**  
**112 LINCOLN AVENUE**  
**BRONX, NY 10454**  
**Site 2 of 18 in cluster C**

**NY AST** **A100291298**  
**N/A**

**Relative:**  
**Higher**

AST:  
Region: STATE  
DEC Region: 2  
Site Status: Unregulated  
Facility Id: 2-608924  
Program Type: PBS  
UTM X: 590379.48566000001  
UTM Y: 4518115.63116000003  
Expiration Date: N/A  
Site Type: Other

**Actual:**  
**8 ft.**

Affiliation Records:  
Site Id: 30772  
Affiliation Type: Facility Owner  
Company Name: CARNEGIE MGMT. INC.  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 545 BROADWAY  
Address2: Not reported  
City: BROOKLYN  
State: NY  
Zip Code: 11206  
Country Code: 001  
Phone: (718) 486-9700 102  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 10/14/2010

Site Id: 30772  
Affiliation Type: Mail Contact  
Company Name: CARNEGIE MANAGEMENT  
Contact Type: Not reported  
Contact Name: CHARLES SCHWARTZ  
Address1: 545 BROADWAY  
Address2: 4TH FLOOR  
City: BROOKLYN  
State: NY  
Zip Code: 11206  
Country Code: 001  
Phone: (718) 486-9700  
EMail: CHARLES@QUALITYLOFTS.COM  
Fax Number: Not reported  
Modified By: NRLOMBAR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**112 LINCOLN AVE. (Continued)**

**A100291298**

Date Last Modified: 10/14/2010  
  
Site Id: 30772  
Affiliation Type: On-Site Operator  
Company Name: 112 LINCOLN AVE.  
Contact Type: Not reported  
Contact Name: CARNEGIE MGMT INC  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 486-9700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 30772  
Affiliation Type: Emergency Contact  
Company Name: CARNEGIE MGMT. INC.  
Contact Type: Not reported  
Contact Name: ISAAC JACOBS  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 486-9700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

**Tank Info:**

Tank Number: 001  
Tank Id: 65973  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

**Equipment Records:**

B00 - Tank External Protection - None  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
C01 - Pipe Location - Aboveground  
H00 - Tank Leak Detection - None  
I00 - Overfill - None  
1  
Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**112 LINCOLN AVE. (Continued)**

**A100291298**

Pipe Model: Not reported  
Install Date: Not reported  
Capacity Gallons: 5000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 02/12/2008  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 10/14/2010  
Material Name: #2 Fuel Oil (On-Site Consumption)

**C31  
East  
< 1/8  
0.030 mi.  
157 ft.**

**LOT 1,TAXBLOCK 2308  
14 BRUCKNER BOULEVARD  
BRONX, NY 10454**

**NY E DESIGNATION**

**S108076742  
N/A**

**Site 3 of 18 in cluster C**

**Relative:  
Higher**

**E DESIGNATION:**

**Actual:  
9 ft.**

Tax Lot(s): 1  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Underground Gasoline Storage Tanks\* Testing Protocol.  
Borough Code: BX  
Community District: 201  
Census Tract: 17  
Census Block: 3007  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-5/R8A  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-5/R8A/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F9  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: 14 BRUCKNER LLC  
Lot Area: 000020000  
Total Building Floor Area: 00000060000  
Commercial Floor Area: 00000060000  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000060000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 1,TAXBLOCK 2308 (Continued)**

**S108076742**

Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 003.00  
Residential Units: 00000  
Non and Residential Units: 00003  
Lot Frontage: 0100.00  
Lot Depth: 0200.00  
Building Frontage: 0100.00  
Building Depth: 0200.00  
Proximity Code: 0  
Irregular Lot Code: N  
Lot Type: 3  
Basement Type Grade: 5  
Land Assessed Value: 00000062100  
Total Assessed Value: 00000311400  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1920  
Year Built Code: E  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0003.00  
Maximum Allowable Far: 06.02  
Borough Code: 2  
Borough Tax Block And Lot: 2023080001  
Condominium Number: 00000  
Census Tract 2: 0017  
X Coordinate: 1003764  
Y Coordinate: 0233366  
Zoning Map: 06A  
Sanborn Map: 209S009  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1  
  
Tax Lot(s): 1  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 17

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 1, TAXBLOCK 2308 (Continued)**

**S108076742**

Census Block: 3007  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-5/R8A  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-5/R8A/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F9  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: 14 BRUCKNER LLC  
Lot Area: 000020000  
Total Building Floor Area: 00000060000  
Commercial Floor Area: 00000060000  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000060000  
Other Floor Area: 00000000000  
Floor Area, Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 003.00  
Residential Units: 00000  
Non and Residential Units: 00003  
Lot Frontage: 0100.00  
Lot Depth: 0200.00  
Building Frontage: 0100.00  
Building Depth: 0200.00  
Proximity Code: 0  
Irregular Lot Code: N  
Lot Type: 3  
Basement Type Grade: 5  
Land Assessed Value: 00000062100  
Total Assessed Value: 00000311400  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1920  
Year Built Code: E  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0003.00  
Maximum Allowable Far: 06.02  
Borough Code: 2  
Borough Tax Block And Lot: 2023080001  
Condominium Number: 00000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 1, TAXBLOCK 2308 (Continued)**

**S108076742**

Census Tract 2: 0017  
X Coordinate: 1003764  
Y Coordinate: 0233366  
Zoning Map: 06A  
Sanborn Map: 209S009  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

**D32**  
**North**  
**< 1/8**  
**0.033 mi.**  
**175 ft.**

**LOT 109, TAXBLOCK 2319**  
**2413 3 AVENUE**  
**BRONX, NY 10451**  
**Site 3 of 10 in cluster D**

**NY E DESIGNATION** **S108076748**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**9 ft.**

**E DESIGNATION:**  
Tax Lot(s): 109  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Underground Gasoline Storage Tanks\* Testing Protocol.  
Borough Code: BX  
Community District: 201  
Census Tract: 53.01  
Census Block: 9037  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F9  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: GLS REAL ESTATE CO.,  
Lot Area: 000028850  
Total Building Floor Area: 00000039426  
Commercial Floor Area: 00000039426



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 109,TAXBLOCK 2319 (Continued)**

**S108076748**

Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000039426  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00002  
Number of Floors: 005.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0055.17  
Lot Depth: 0196.33  
Building Frontage: 0080.00  
Building Depth: 0088.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 5  
Basement Type Grade: 5  
Land Assessed Value: 00000090450  
Total Assessed Value: 00000210600  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1931  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0001.37  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190109  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003227  
Y Coordinate: 0233948  
Zoning Map: 06A  
Sanborn Map: 209S001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1  
  
Tax Lot(s): 109  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 109,TAXBLOCK 2319 (Continued)**

**S108076748**

Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 53.01  
Census Block: 9037  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F9  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: GLS REAL ESTATE CO.,  
Lot Area: 000028850  
Total Building Floor Area: 00000039426  
Commercial Floor Area: 00000039426  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000039426  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00002  
Number of Floors: 005.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0055.17  
Lot Depth: 0196.33  
Building Frontage: 0080.00  
Building Depth: 0088.00  
Proximity Code: 0  
Irregular Lot Code: Y  
Lot Type: 5  
Basement Type Grade: 5  
Land Assessed Value: 00000090450  
Total Assessed Value: 00000210600  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1931  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 109,TAXBLOCK 2319 (Continued)**

**S108076748**

Built Floor Area Ratio-Far: 0001.37  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190109  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003227  
Y Coordinate: 0233948  
Zoning Map: 06A  
Sanborn Map: 209S001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

**33**  
**West**  
**< 1/8**  
**0.034 mi.**  
**181 ft.**

**UNDER THE 3RD AVE**  
**BRIDGE ON BRONX SIDE**  
**BRONX, NY**

**NY Spills S106016522**  
**N/A**

**Relative:**  
**Lower**

**SPILLS:**

**Actual:**  
**0 ft.**

Facility ID: 0304415  
Facility Type: ER  
DER Facility ID: 192659  
Site ID: 233826  
DEC Region: 2  
Spill Date: 7/26/2003  
Spill Number/Closed Date: 0304415 / 7/28/2003  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.  
  
SWIS: 0301  
Investigator: CESAWYER  
Referred To: Not reported  
Reported to Dept: 7/27/2003  
CID: 405  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 7/27/2003  
Spill Record Last Update: 7/28/2003  
Spiller Name: Not reported  
Spiller Company: DEP  
Spiller Address: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNDER THE 3RD AVE (Continued)**

**S106016522**

Spiller City,St,Zip: ZZ -  
Spiller Company: 001  
Contact Name: BALU CHANDIRAMANI  
Contact Phone: (212) 788-1830  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SAWYER"forward to DEC Water  
Remarks: caller states that a potential spill from a sewage plant under the bridge on the bronx side - dep is in charge of the investigation and it is dep responsibility

Material:

Site ID: 233826  
Operable Unit ID: 872680  
Operable Unit: 01  
Material ID: 568503  
Material Code: 0062A  
Material Name: RAW SEWAGE  
Case No.: Not reported  
Material FA: Other  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**D34**  
**NNE**  
**< 1/8**  
**0.035 mi.**  
**185 ft.**

**2416 3RD AVE**  
**BRONX, NY 10454**  
**Site 4 of 10 in cluster D**

**EDR US Hist Auto Stat** **S1015356062**  
**N/A**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

Name: GEORGES AUTO REPR  
Year: 2011

**Actual:**  
**9 ft.**

Address: 2416 3RD AVE

Name: GEORGES AUTO REPR  
Year: 2012  
Address: 2416 3RD AVE

**C35**  
**East**  
**< 1/8**  
**0.035 mi.**  
**186 ft.**

**LOT 5,TAXBLOCK 2308**  
**18 BRUCKNER BOULEVARD**  
**BRONX, NY 10454**  
**Site 4 of 18 in cluster C**

**NY E DESIGNATION** **S108076784**  
**N/A**

**Relative:**  
**Higher**

E DESIGNATION:

Tax Lot(s): 5  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX

**Actual:**  
**9 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 5, TAXBLOCK 2308 (Continued)**

**S108076784**

Zoning Map No: 6a,6b  
Description: Underground Gasoline Storage Tanks\* Testing Protocol.  
Borough Code: BX  
Community District: 201  
Census Tract: 17  
Census Block: 3007  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-5/R8A  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-5/R8A/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: E1  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: BRUCKNER ASSOCIATES, I  
Lot Area: 000050000  
Total Building Floor Area: 00000181500  
Commercial Floor Area: 00000181500  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000181500  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area, Total Bld Source Code7  
Number of Buildings: 00004  
Number of Floors: 004.00  
Residential Units: 00000  
Non and Residential Units: 00003  
Lot Frontage: 0250.00  
Lot Depth: 0200.00  
Building Frontage: 0170.00  
Building Depth: 0140.00  
Proximity Code: 0  
Irregular Lot Code: N  
Lot Type: 5  
Basement Type Grade: 5  
Land Assessed Value: 00000175050  
Total Assessed Value: 00001530000  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1931  
Year Built Code: E  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 5, TAXBLOCK 2308 (Continued)**

**S108076784**

Built Floor Area Ratio-Far: 0003.63  
Maximum Allowable Far: 06.02  
Borough Code: 2  
Borough Tax Block And Lot: 2023080005  
Condominium Number: 00000  
Census Tract 2: 0017  
X Coordinate: 1003929  
Y Coordinate: 0233312  
Zoning Map: 06A  
Sanborn Map: 209S009  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

Tax Lot(s): 5  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 17  
Census Block: 3007  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-5/R8A  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-5/R8A/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: E1  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: P  
Owner Name: BRUCKNER ASSOCIATES, I  
Lot Area: 000050000  
Total Building Floor Area: 00000181500  
Commercial Floor Area: 00000181500  
Office Floor Area: 00000000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 5, TAXBLOCK 2308 (Continued)**

**S108076784**

Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000181500  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area, Total Bld Source Code7  
Number of Buildings: 00004  
Number of Floors: 004.00  
Residential Units: 00000  
Non and Residential Units: 00003  
Lot Frontage: 0250.00  
Lot Depth: 0200.00  
Building Frontage: 0170.00  
Building Depth: 0140.00  
Proximity Code: 0  
Irregular Lot Code: N  
Lot Type: 5  
Basement Type Grade: 5  
Land Assessed Value: 00000175050  
Total Assessed Value: 00001530000  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1931  
Year Built Code: E  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0003.63  
Maximum Allowable Far: 06.02  
Borough Code: 2  
Borough Tax Block And Lot: 2023080005  
Condominium Number: 00000  
Census Tract 2: 0017  
X Coordinate: 1003929  
Y Coordinate: 0233312  
Zoning Map: 06A  
Sanborn Map: 209S009  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**C36**  
**ENE**  
**< 1/8**  
**0.039 mi.**  
**206 ft.**

**131 LINCOLN AVE**  
**BRONX, NY 10454**

**EDR US Hist Auto Stat 1015204383**  
**N/A**

**Site 5 of 18 in cluster C**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

**Actual:**  
**8 ft.**

- Name: J & SANTANA AUTO REPAIR
- Year: 1999
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR
- Year: 2000
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR
- Year: 2001
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR
- Year: 2002
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR
- Year: 2003
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR INC
- Year: 2005
- Address: 131 LINCOLN AVE
  
- Name: J & R SANTANA AUTO REPAIR
- Year: 2009
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR
- Year: 2010
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR
- Year: 2011
- Address: 131 LINCOLN AVE
  
- Name: J & SANTANA AUTO REPAIR
- Year: 2012
- Address: 131 LINCOLN AVE

**D37**  
**North**  
**< 1/8**  
**0.041 mi.**  
**216 ft.**

**PROSTRIP WOOD FINISHERS INC**  
**2417 3RD AVE - ROOM 807**  
**BRONX, NY 10451**

**NY MANIFEST S110611265**  
**N/A**

**Site 5 of 10 in cluster D**

**Relative:**  
**Higher**

NY MANIFEST:

**Actual:**  
**9 ft.**

- EPA ID: NYR000177337
- Country: USA
- Mailing Name: PROSTRIP WOOD FINISHERS INC
- Mailing Contact: A STOVER
- Mailing Address: 2417 3rd AVE - ROOM 807
- Mailing Address 2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROSTRIP WOOD FINISHERS INC (Continued)**

**S110611265**

Mailing City: BRONX  
Mailing State: NY  
Mailing Zip: 10451  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-234-2089

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD080631369  
Trans2 State ID: Not reported  
Generator Ship Date: 2010-09-03  
Trans1 Recv Date: 2010-09-03  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2010-09-07  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000177337  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD980536593  
Waste Code: Not reported  
Quantity: 3200.0  
Units: P - Pounds  
Number of Containers: 8.0  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2010  
Manifest Tracking Num: 000400657VES  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

**D38**  
**North**  
**< 1/8**  
**0.041 mi.**  
**216 ft.**

**AMES MEDICAL EQUIPMENT**  
**2417 3RD AV**  
**BRONX, NY**  
**Site 6 of 10 in cluster D**

**NY LTANKS** **S105230455**  
**N/A**

**Relative:**  
**Higher**

LTANKS:  
Site ID: 109231  
Spill Number/Closed Date: 0108613 / 12/4/2001  
Spill Date: 11/27/2001  
Spill Cause: Tank Overfill  
Spill Source: Tank Truck  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported

**Actual:**  
**9 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMES MEDICAL EQUIPMENT (Continued)**

**S105230455**

Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: JBVOUGHT  
Referred To: Not reported  
Reported to Dept: 11/27/2001  
CID: 390  
Water Affected: Not reported  
Spill Notifier: Citizen  
Last Inspection: 12/3/2001  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 11/27/2001  
Spill Record Last Update: 12/4/2001  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: UNK  
Spiller City,St,Zip: UNK, ZZ  
Spiller County: 001  
Spiller Contact: CARLOS PADILLA  
Spiller Phone: (718) 993-4400  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 95938  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was

Remarks: "VOUGHT"ED. ROSSAN: VISITED SITE ON 12/03/2001. I OBSERVED SPILL  
CLEANED UP. SPEEDY DRY TRACE STILL ON SIDE WALK AND ROAD.N.B. SPILL  
LOCATION IS AT: 225 E 134 STREET BRONX NY  
caller repoorts the company that fills the tank ACROSS the st has  
spileid oil - they are sweeping it down the st and poss into sewers

Material:  
Site ID: 109231  
Operable Unit ID: 846018  
Operable Unit: 01  
Material ID: 529852  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**D39**      **MADHATTER REALTY CORP.**  
**North**    **2417 THIRD AVENUE**  
**< 1/8**     **NEW YORK, NY 10451**  
**0.041 mi.**  
**216 ft.**    **Site 7 of 10 in cluster D**

**NY AST**    **U003392532**  
**NY HIST AST**    **N/A**

**Relative:**  
**Higher**

AST:

Region: STATE  
 DEC Region: 2  
 Site Status: Active  
 Facility Id: 2-199745  
 Program Type: PBS  
 UTM X: 590141.75295999995  
 UTM Y: 4518011.6765299998  
 Expiration Date: 2017/10/23  
 Site Type: Manufacturing (Other than Chemical)/Processing

**Actual:**  
**9 ft.**

Affiliation Records:

Site Id: 6694  
 Affiliation Type: Facility Owner  
 Company Name: MADHATTER REALTY CORP.  
 Contact Type: PRESIDENT  
 Contact Name: HUGO B. IM  
 Address1: 2417 THIRD AVE.  
 Address2: Not reported  
 City: BRONX  
 State: NY  
 Zip Code: 10451  
 Country Code: 001  
 Phone: (718) 665-2787  
 EMail: Not reported  
 Fax Number: Not reported  
 Modified By: KAKYER  
 Date Last Modified: 12/13/2012

Site Id: 6694  
 Affiliation Type: Mail Contact  
 Company Name: MADHATTER REALTY CORP.  
 Contact Type: Not reported  
 Contact Name: HUGO  
 Address1: 2417 THIRD AVE.  
 Address2: Not reported  
 City: BRONX  
 State: NY  
 Zip Code: 10451  
 Country Code: 001  
 Phone: (718) 665-2787  
 EMail: IMSOMI@GMAIL.COM  
 Fax Number: Not reported  
 Modified By: KAKYER  
 Date Last Modified: 12/13/2012

Site Id: 6694  
 Affiliation Type: On-Site Operator  
 Company Name: MADHATTER REALTY CORP.  
 Contact Type: Not reported  
 Contact Name: HUGO  
 Address1: Not reported  
 Address2: Not reported  
 City: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADHATTER REALTY CORP. (Continued)**

**U003392532**

State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 665-2787  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 6694  
Affiliation Type: Emergency Contact  
Company Name: MADHATTER REALTY CORP.  
Contact Type: Not reported  
Contact Name: HUGO  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (417) 270-1131  
EMail: Not reported  
Fax Number: Not reported  
Modified By: dxliving  
Date Last Modified: 12/31/2007

Tank Info:

Tank Number: 001  
Tank Id: 24804  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
C01 - Pipe Location - Aboveground  
H00 - Tank Leak Detection - None  
E01 - Piping Secondary Containment - Diking (Aboveground)  
G03 - Tank Secondary Containment - Vault (w/o access)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
K00 - Spill Prevention - None

Tank Location: 3  
Tank Type: Steel Tank in Concrete  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1965  
Capacity Gallons: 10000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADHATTER REALTY CORP. (Continued)**

**U003392532**

Register: True  
Modified By: KAKYER  
Last Modified: 12/13/2012  
Material Name: #2 Fuel Oil (On-Site Consumption)

**HIST AST:**

PBS Number: 2-199745  
SWIS Code: 6001  
Operator: HUGO  
Facility Phone: (718) 665-2787  
Facility Addr2: 2417 3RD AVENUE  
Facility Type: MANUFACTURING  
Emergency: HUGO  
Emergency Tel: (718) 665-2787  
Old PBSNO: Not reported  
Date Inspected: Not reported  
Inspector: Not reported  
Result of Inspection: Not reported  
Owner Name: MADHATTER REALTY CORP.  
Owner Address: 2417 THIRD AVE.  
Owner City,St,Zip: BRONX, NY 10451  
Federal ID: Not reported  
Owner Tel: (718) 665-2787  
Owner Type: Corporate/Commercial  
Owner Subtype: Not reported  
Mailing Contact: HUGO  
Mailing Name: MADHATTER REALTY CORP.  
Mailing Address: 2417 THIRD AVE.  
Mailing Address 2: Not reported  
Mailing City,St,Zip: BRONX, NY 10451  
Mailing Telephone: (718) 665-2787  
Owner Mark: First Owner  
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.  
  
Certification Flag: False  
Certification Date: 09/25/1997  
Expiration: 10/23/2002  
Renew Flag: False  
Renew Date: Not reported  
Total Capacity: 10000  
FAMT: True  
Facility Screen: No Missing Data  
Owner Screen: No Missing Data  
Tank Screen: Minor Data Missing  
Dead Letter: False  
CBS Number: Not reported  
Town or City: NEW YORK CITY  
County Code: 60  
Town or City Code: 01  
Region: 2  
  
Tank ID: 001  
Tank Location: ABOVEGROUND  
Tank Status: In Service  
Install Date: Not reported  
Capacity (Gal): 10000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADHATTER REALTY CORP. (Continued)**

**U003392532**

Product Stored: NOS 1,2, OR 4 FUEL OIL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Tank Containment: Vault (w/access)  
Leak Detection: 0  
Overfill Protection: 4  
Dispenser Method: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: Not reported  
Test Method: Not reported  
Deleted: False  
Updated: False  
SPDES Number: Not reported  
Lat/Long: Not reported

**D40**  
**North**  
**< 1/8**  
**0.041 mi.**  
**216 ft.**

**PROSTRIP WOOD FINISHERS INC**  
**2417 THIRD AVE**  
**BRONX, NY 10451**  
**Site 8 of 10 in cluster D**

**RCRA-SQG 1014399644**  
**NYR000177337**

**Relative:**  
**Higher**

RCRA-SQG:

**Actual:**  
**9 ft.**

Date form received by agency: 08/04/2010  
Facility name: PROSTRIP WOOD FINISHERS INC  
Facility address: 2417 THIRD AVE  
BRONX, NY 10451  
EPA ID: NYR000177337  
Mailing address: THIRD AVE  
BRONX, NY 10451  
Contact: ALAN STOVER  
Contact address: THIRD AVE #807  
BRONX, NY 10451  
Contact country: US  
Contact telephone: (718) 585-9623  
Contact email: AMSTOVER@PROSTRIPWOODFINISHERS.COM  
EPA Region: 02  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: ALAN STOVER  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROSTRIP WOOD FINISHERS INC (Continued)**

**1014399644**

Owner/Operator Type: Operator  
Owner/Op start date: 06/01/2009  
Owner/Op end date: Not reported  
  
Owner/operator name: MADHATTER REALTY INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/01/1990  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Hazardous Waste Summary:

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

D41  
North  
< 1/8  
0.041 mi.  
216 ft.

**LOT 100,TAXBLOCK 2319  
2417 3 AVENUE  
BRONX, NY 10451  
Site 9 of 10 in cluster D**

**NY E DESIGNATION S108076746  
N/A**

Relative:  
Higher

E DESIGNATION:  
Tax Lot(s): 100  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX

Actual:  
9 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 100,TAXBLOCK 2319 (Continued)**

**S108076746**

Zoning Map No: 6a,6b  
Description: Underground Gasoline Storage Tanks\* Testing Protocol.  
Borough Code: BX  
Community District: 201  
Census Tract: 53.01  
Census Block: 9037  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F1  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: Not reported  
Owner Name: MADHATTERS REALTY INC  
Lot Area: 000019888  
Total Building Floor Area: 00000154380  
Commercial Floor Area: 00000154380  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000154380  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 008.00  
Residential Units: 00000  
Non and Residential Units: 00008  
Lot Frontage: 0226.92  
Lot Depth: 0088.00  
Building Frontage: 0220.00  
Building Depth: 0088.00  
Proximity Code: 0  
Irregular Lot Code: N  
Lot Type: 3  
Basement Type Grade: 5  
Land Assessed Value: 00000063450  
Total Assessed Value: 00001017000  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1928  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 100,TAXBLOCK 2319 (Continued)**

**S108076746**

Built Floor Area Ratio-Far: 0007.76  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190100  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003404  
Y Coordinate: 0233980  
Zoning Map: 06A  
Sanborn Map: 209S001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1  
  
Tax Lot(s): 100  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 53.01  
Census Block: 9037  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1  
All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F1  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: Not reported  
Owner Name: MADHATTERS REALTY INC  
Lot Area: 000019888  
Total Building Floor Area: 00000154380  
Commercial Floor Area: 00000154380  
Office Floor Area: 00000000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 100,TAXBLOCK 2319 (Continued)**

**S108076746**

Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000154380  
Factory Floor Area: 00000000000  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 008.00  
Residential Units: 00000  
Non and Residential Units: 00008  
Lot Frontage: 0226.92  
Lot Depth: 0088.00  
Building Frontage: 0220.00  
Building Depth: 0088.00  
Proximity Code: 0  
Irregular Lot Code: N  
Lot Type: 3  
Basement Type Grade: 5  
Land Assessed Value: 00000063450  
Total Assessed Value: 00001017000  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1928  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0007.76  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190100  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003404  
Y Coordinate: 0233980  
Zoning Map: 06A  
Sanborn Map: 209S001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C42  
ENE  
< 1/8  
0.044 mi.  
232 ft.

133 LINCOLN AVE  
BRONX, NY 10454

Site 6 of 18 in cluster C

EDR US Hist Auto Stat 1015208874  
N/A

Relative:  
Higher  
Actual:  
8 ft.

EDR Historical Auto Stations:  
Name: NEW SUPERIOR CAR SERVICE  
Year: 2011  
Address: 133 LINCOLN AVE

D43  
North  
< 1/8  
0.045 mi.  
239 ft.

MANHOLE 16164  
2423 3RD AVE  
BRONX, NY

Site 10 of 10 in cluster D

NY Spills S110138457  
N/A

Relative:  
Higher  
Actual:  
9 ft.

SPILLS:  
Facility ID: 0909563  
Facility Type: ER  
DER Facility ID: 371227  
Site ID: 422281  
DEC Region: 2  
Spill Date: 11/28/2009  
Spill Number/Closed Date: 0909563 / 1/14/2010  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.  
  
SWIS:  
Investigator: RWAUSTIN  
Referred To: Not reported  
Reported to Dept: 11/28/2009  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 11/28/2009  
Spill Record Last Update: 1/14/2010  
Spiller Name: ERT  
Spiller Company: UNKNOWN  
Spiller Address: 2423 3RD AVE  
Spiller City,St,Zip: BRONX, NY  
Spiller Company: 999  
Contact Name: ERT  
Contact Phone: (212) 580-8383  
DEC Memo: 1/14/10 - Austin - Oil analysis indicated that it was a lube oil - Spill contained and cleaned up by Con Ed - see eDocs files for further info - spill closed - end  
  
Remarks: Spill contained to the manhole. Clean up is pending.  
  
Material:  
Site ID: 422281  
Operable Unit ID: 1178124  
Operable Unit: 01

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE 16164 (Continued)**

**S110138457**

Material ID: 2171178  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 20  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**C44**  
**East**  
**< 1/8**  
**0.047 mi.**  
**249 ft.**

**NEWMARK KIGHT FRANK**  
**20 BRUCKNER BLVD**  
**BRONX, NY 10454**  
**Site 7 of 18 in cluster C**

**NY MANIFEST S108296712**  
**NY Spills N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYR000163857  
Country: USA  
Mailing Name: NEWMARK KIGHT FRANK  
Mailing Contact: BRUCKNER VENTURES LLC  
Mailing Address: 520 EIGHT AVE  
Mailing Address 2: Not reported  
Mailing City: MANHATTAN  
Mailing State: NY  
Mailing Zip: 10018  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 516-816-4766

**Actual:**  
**10 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: CTD021816889  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-04-01  
Trans1 Recv Date: 2009-04-01  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-04-14  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000163857  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD080469935  
Waste Code: Not reported  
Quantity: 330.0  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 6.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEWMARK KIGHT FRANK (Continued)**

**S108296712**

Manifest Tracking Num: 000144685UIS  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H050

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: CTD021816889  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-04-01  
Trans1 Recv Date: 2009-04-01  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-04-14  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000163857  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NYD080469935  
Waste Code: Not reported  
Quantity: 330.0  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 6.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 000144685UIS  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H050

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: CTD021816889  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-04-01  
Trans1 Recv Date: 2009-04-01  
Trans2 Recv Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEWMARK KIGHT FRANK (Continued)**

**S108296712**

TSD Site Recv Date: 2009-04-14  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000163857  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD080469935  
Waste Code: Not reported  
Quantity: 330.0  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 6.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 000144685UIS  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H050

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: CTD021816889  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-04-01  
Trans1 Recv Date: 2009-04-01  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-04-14  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000163857  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD080469935  
Waste Code: Not reported  
Quantity: 330.0  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 6.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 000144685UIS  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEWMARK KIGHT FRANK (Continued)**

**S108296712**

Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H050

**SPILLS:**

Facility ID: 0610344  
Facility Type: ER  
DER Facility ID: 324414  
Site ID: 374755  
DEC Region: 2  
Spill Date: 12/8/2006  
Spill Number/Closed Date: 0610344 / 7/10/2008  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: SFRAHMAN  
Referred To: Not reported  
Reported to Dept: 12/12/2006  
CID: 444  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 12/12/2006  
Spill Record Last Update: 7/10/2008  
Spiller Name: MARTY KROLL  
Spiller Company: FURNITURE WAREHOUSE  
Spiller Address: 20 BRUCKNER BLVD  
Spiller City,St,Zip: BRONX, NY  
Spiller Company: 001  
Contact Name: MARTY KROLL  
Contact Phone: (631) 232-2600

DEC Memo: Roux Associates called saying they are working this project.They seem to know what to do, so no CSL was sent.12/14/06 Rahman- William Holubowich is the contact person with Roux Assoc.They are currently preparing the Phase II report, will send to DEC along with Phase I shortly.01/18/07 Rahman-Phase II report by Roux Associates referenced the presence of a gasoline tank and pump back in 1950's.Currently, there are no active USTs present at the site.Roux Associate collected six soil samples and three ground water samples from the site.Soil and ground water samples from the loading dock area, where the potential gasoline UST was reportedly located,indicated the presence of VOCs associated with gasoline.GW sample one contained Ethylbenzene 23 ug/l, Xylenes 120ug/l, Benzene 4 ug/l.Soil samples SB-2 and SB-3 contained Xylenes @8300 ug/l and 46,000 ug/l rspectively.As per the report, there is no off site migration of the contaminants.Contamination is localized in loading dock area.Roux Associate recommended installation of three groundwater monitoring

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NEWMARK KIGHT FRANK (Continued)**

**S108296712**

wells and quarterly groundwater sampling and reporting for one year to evaluate groundwater quality. If a reduction in VOC is not identified, alternative approach will be evaluated to treat groundwater. 07/10/08 Final closure report from Roux Associates. Roux Associate injected ORC to enhance the biodegradation of the VOCs in the vicinity of GW-1, as per the previous RAP. The ORC slurry was injected via 12 temporary injections points. The lab result shows that in situ remediation has significantly reduced the concentrations of BTEX by an average of 92%. The final concentration of VOCs are: Benzene 0.69 ug/l, Toluene 34 ug/l, Ethylbenzene 220 ug/l, Xylenes 1,800 ug/l. Roux opinioned that ground water at that site does not pose any threat to public health or environment. Spill can be closed. (sr)

Remarks: FOUND CONTAMINATED SOIL WHILE TESTING:

Material:

Site ID: 374755  
 Operable Unit ID: 1132418  
 Operable Unit: 01  
 Material ID: 2122193  
 Material Code: 0009  
 Material Name: Gasoline  
 Case No.: Not reported  
 Material FA: Petroleum  
 Quantity: Not reported  
 Units: Gallons  
 Recovered: No  
 Resource Affected: Not reported  
 Oxygenate: False

Tank Test:

**C45**  
**East**  
**< 1/8**  
**0.047 mi.**  
**249 ft.**

**KELLEY FURNITURE WAREHOUSE**  
**20 BRUCKNER BLVD.**  
**BRONX, NY 10454**  
**Site 8 of 18 in cluster C**

**NY UST U004067761**  
**N/A**

**Relative:**  
**Higher**

UST:  
 Id/Status: 2-610419 / Unregulated  
 Program Type: PBS  
 Region: STATE  
 DEC Region: 2  
 Expiration Date: N/A  
 UTM X: 590357.43018000002  
 UTM Y: 4517918.54958000003  
 Site Type: Other

**Actual:**  
**10 ft.**

Affiliation Records:  
 Site Id: 374492  
 Affiliation Type: Mail Contact  
 Company Name: 20 BRUCKNER LLC  
 Contact Type: Not reported  
 Contact Name: 20 BRUCKNER LLC  
 Address1: 905 NORTH KINGS HIGHWAY  
 Address2: Not reported  
 City: CHERRY HILL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KELLEY FURNITURE WAREHOUSE (Continued)**

**U004067761**

State: NJ  
Zip Code: 08034  
Country Code: 001  
Phone: (212) 667-6620  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 1/8/2007

Site Id: 374492  
Affiliation Type: On-Site Operator  
Company Name: KELLEY FURNITURE WAREHOUSE  
Contact Type: Not reported  
Contact Name: BRIAN R. STEINWURTZEL  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 609-8040  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 1/8/2007

Site Id: 374492  
Affiliation Type: Emergency Contact  
Company Name: BRUCKNER VENTURES, LLC (BRUCKNER ASSOC., LLC)  
Contact Type: Not reported  
Contact Name: BRIAN R. STEINWURTZEL  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (212) 609-8040  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 1/8/2007

Site Id: 374492  
Affiliation Type: Facility Owner  
Company Name: BRUCKNER VENTURES, LLC (BRUCKNER ASSOC., LLC)  
Contact Type: 20 BRUCKNER LLC  
Contact Name: MARK P. MACY  
Address1: 905 NORTH KINGS HIGHWAY  
Address2: Not reported  
City: CHERRY HILL  
State: NJ  
Zip Code: 08034  
Country Code: 001  
Phone: (856) 667-6620  
EMail: Not reported  
Fax Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KELLEY FURNITURE WAREHOUSE (Continued)**

**U004067761**

Modified By: DXLIVING  
Date Last Modified: 1/8/2007

Tank Info:

Tank Number: 01  
Tank ID: 214823  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 5000  
Install Date: Not reported  
Date Tank Closed: 11/08/2006  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: DXLIVING  
Last Modified: 01/09/2007

Equipment Records:

B00 - Tank External Protection - None  
K00 - Spill Prevention - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
L00 - Piping Leak Detection - None  
C02 - Pipe Location - Underground/On-ground  
I00 - Overfill - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
F00 - Pipe External Protection - None  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None

C46  
East  
< 1/8  
0.047 mi.  
249 ft.

**BRUCKNER VENTURES LLC**  
**20 BRUCKNER BLVD**  
**BRONX, NY 10454**  
**Site 9 of 18 in cluster C**

**RCRA-SQG 1012186524**  
**NYR000163857**

**Relative:**  
**Higher**

RCRA-SQG:

Date form received by agency: 03/26/2009  
Facility name: BRUCKNER VENTURES LLC  
Facility address: 20 BRUCKNER BLVD  
BRONX, NY 10454  
EPA ID: NYR000163857  
Mailing address: 8TH AVE  
C/O NEWMARK KNIGHT FRANK  
NEW YORK, NY 10018  
Contact: BARBARA SIEGEL  
Contact address: 8TH AVE C/O NEWMARK KNIGHT FRANK  
NEW YORK, NY 10018  
Contact country: US

**Actual:**  
**10 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRUCKNER VENTURES LLC (Continued)**

**1012186524**

Contact telephone: (212) 609-7140  
Contact email: BSIEGEL@NEWYORKKF.COM  
EPA Region: 02  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: BRUCKNER VENTURES LLC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 12/21/1998  
Owner/Op end date: Not reported

Owner/operator name: BRUCKNER VENTURES LLC  
Owner/operator address: 8TH AVE C/O NEWMARK KNIGHT FRANK  
NEW YORK, NY 10018

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 12/21/1998  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRUCKNER VENTURES LLC (Continued)**

**1012186524**

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

**C47**  
**NE**  
**< 1/8**  
**0.055 mi.**  
**290 ft.**

**258 E 134TH ST**  
**BRONX, NY 10454**

**Site 10 of 18 in cluster C**

**EDR US Hist Auto Stat 1015369700**  
**N/A**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

Name: SY COMPLETE AUTO REPAIR CORP  
Year: 2010  
Address: 258 E 134TH ST

**Actual:**  
**8 ft.**

Name: SY COMPLETE AUTO REPAIR CORP  
Year: 2011  
Address: 258 E 134TH ST

Name: SY COMPLETE AUTO REPAIR CORP  
Year: 2012  
Address: 258 E 134TH ST

**C48**  
**ENE**  
**< 1/8**  
**0.055 mi.**  
**292 ft.**

**MANHOLE 17444**  
**EAST 134 ST AND LINCOLN**  
**BRONX, NY**

**Site 11 of 18 in cluster C**

**NY Spills S106698521**  
**N/A**

**Relative:**  
**Higher**

SPILLS:

Facility ID: 0405598  
Facility Type: ER  
DER Facility ID: 88648  
Site ID: 99790  
DEC Region: 2  
Spill Date: 8/22/2004  
Spill Number/Closed Date: 0405598 / 12/29/2004  
Spill Cause: Equipment Failure  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**8 ft.**

SWIS: 0301  
Investigator: SKARAKHA  
Referred To: Not reported  
Reported to Dept: 8/22/2004  
CID: 41  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 8/22/2004  
Spill Record Last Update: 12/29/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE 17444 (Continued)**

**S106698521**

Spiller Name: Not reported  
Spiller Company: CON ED  
Spiller Address: 4 IRVING PLACE  
Spiller City,St,Zip: NEW YORK, NY 10003  
Spiller Company: 001  
Contact Name: ERT DESK  
Contact Phone: (212) 580-8383  
DEC Memo: E2MIS NO 155001While working in MH 17444 Mongello discovered ~ 1 Ounce of cable oil on the floor of the manhole from a defective cable joint. This manhole was flushed earlier today. The crew installed Environmental Tag # 36147 at the manhole and took an oil sample.Lab Sequence Number: 04-06704-001 - TOTAL PCB 14 ppm06-September-2004 14:00 HrsUG Env Mech A Orlando Negron 18400 reports cleanup complete, structure was double washed and rinsed using 760 degreaser, CFS Tanker removed 500 gallons of nonhazardous oily water, Flush Truck removed 200 pounds of flush debris, environmental tag was removed, and source of oil, the d-fault has been removed by the underground.10-Oct-2004 21:00 hrsAs per Feeder Control reports, 2x01 the D-Fault (un-supported 3m Snaps) was cut out and replaced on 9/06/04 with 1c2/0 straight joint. On feeder 3M55, the DFault(defective 3c800 PILC joint) was cut out and replaced with 3w1w Raychem Stop joint on 9/06/04.  
Remarks: one ounce of cable oil spilled

Material:  
Site ID: 99790  
Operable Unit ID: 888344  
Operable Unit: 01  
Material ID: 486372  
Material Code: 0020B  
Material Name: CABLE OIL  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Not reported  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 99790  
Operable Unit ID: 888344  
Operable Unit: 01  
Material ID: 486373  
Material Code: 0020B  
Material Name: CABLE OIL  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C49  
ENE  
< 1/8  
0.055 mi.  
292 ft.

CON EDISON  
E 134 & LINCOLN AVE  
BRONX, NY  
Site 12 of 18 in cluster C

NY MANIFEST S112818112  
N/A

Relative:  
Higher

NY MANIFEST:  
EPA ID: NYP004281853  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: CON EDISON  
Mailing Address: 4 IRVING PL 15TH FL  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Actual:  
8 ft.

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 07-Jan-2013 00:00:00  
Trans1 Recv Date: 07-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 09-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004281853  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 900  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010408913JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON (Continued)**

**S112818112**

Trans1 State ID: NJ0000027193  
 Trans2 State ID: Not reported  
 Generator Ship Date: 07-Jan-2013 00:00:00  
 Trans1 Recv Date: 07-Jan-2013 00:00:00  
 Trans2 Recv Date: Not reported  
 TSD Site Recv Date: 09-Jan-2013 00:00:00  
 Part A Recv Date: Not reported  
 Part B Recv Date: Not reported  
 Generator EPA ID: NYP004281853  
 Trans1 EPA ID: Not reported  
 Trans2 EPA ID: Not reported  
 TSDF ID: NJD002200046  
 Waste Code: Not reported  
 Quantity: 900  
 Units: P - Pounds  
 Number of Containers: 1  
 Container Type: TT - Cargo tank, tank trucks  
 Handling Method: T Chemical, physical, or biological treatment.  
 Specific Gravity: 1  
 Year: 2013  
 Manifest Tracking Num: 010408913JJK  
 Import Ind: N  
 Export Ind: N  
 Discr Quantity Ind: N  
 Discr Type Ind: N  
 Discr Residue Ind: N  
 Discr Partial Reject Ind: N  
 Discr Full Reject Ind: N  
 Manifest Ref Num: Not reported  
 Alt Fac RCRA Id: Not reported  
 Alt Fac Sign Date: Not reported  
 Mgmt Method Type Code: H110

**C50**  
**ENE**  
 < 1/8  
 0.055 mi.  
 292 ft.

**TRANSFORMER MANHOLE #729**  
**EAST 134TH ST/LINCOLN AVE**  
**BRONX, NY**  
 Site 13 of 18 in cluster C

**NY Spills S104194555**  
**N/A**

**Relative:**  
**Higher**

**SPILLS:**

Facility ID: 9906498  
 Facility Type: ER  
 DER Facility ID: 95415  
 Site ID: 108594  
 DEC Region: 2  
 Spill Date: 8/31/1999  
 Spill Number/Closed Date: 9906498 / 12/7/1999  
 Spill Cause: Unknown  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 SWIS: 0301  
 Investigator: CAENGELH  
 Referred To: Not reported  
 Reported to Dept: 8/31/1999  
 CID: 252  
 Water Affected: Not reported  
 Spill Source: Commercial/Industrial  
 Spill Notifier: Other

**Actual:**  
**8 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TRANSFORMER MANHOLE #729 (Continued)**

**S104194555**

Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 8/31/1999  
Spill Record Last Update: 6/5/2000  
Spiller Name: UNKNOWN  
Spiller Company: UNKNOWN  
Spiller Address: UNKNOWN  
Spiller City,St,Zip: UNKNOWN, NY  
Spiller Company: 999  
Contact Name: JOE DEVOTI  
Contact Phone: (212) 580-6763  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ENGELHARDT"DEC Inspector notes:11/30/99: emailed ERT's for more info. Note: oily sludge to flush pit. Con ed e2mis notes: Upon removal of jumbo transformer, they found an oily sheen on solid debris under the transformer. Conduit Plate 5-2-B indicates a sewer connection. Previous lab results from drained transformer is 98ppm. There are no signs of the transformer leaking. Will take a sample from the debris an cleanup will commence pending results. Tanker truck will not suck up the oily debris. AROCLOR : 1260 <1.00ppm Completed clean up of TM 729. The tanker removed apprx 2 gals oil and 1400 gals water. PCB concentration was <1ppm. Cleanup method was flush TK and tanker. There was no sewer connections and no solid waste generated.  
Remarks: SHEEN ON SOLID SLUDGE AT BOTTOM OF MANHOLE. WILL CLEANUP AS 50 TO 499-CON ED #127525  
Material:  
Site ID: 108594  
Operable Unit ID: 1080942  
Operable Unit: 01  
Material ID: 299225  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:



MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**C51**  
**ENE**  
**< 1/8**  
**0.055 mi.**  
**292 ft.**

**MANHOLE**  
**134TH ST / LINCOLN AVE**  
**BRONX, NY**

**NY Spills**    **S103274727**  
**N/A**

**Site 14 of 18 in cluster C**

**Relative:**  
**Higher**

**SPILLS:**

Facility ID: 9802488  
Facility Type: ER  
DER Facility ID: 246083  
Site ID: 304652  
DEC Region: 2  
Spill Date: 5/8/1998  
Spill Number/Closed Date: 9802488 / 6/22/1998  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**8 ft.**

**SWIS:**

Investigator: CAENGELH  
Referred To: Not reported  
Reported to Dept: 5/27/1998  
CID: 370  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/27/1998  
Spill Record Last Update: 6/26/2000  
Spiller Name: Not reported  
Spiller Company: Not reported  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*Update\*\*\*, ZZ  
Spiller Company: 001  
Contact Name: ABOVE CALLER  
Contact Phone: Not reported  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ENGELHARDT"6/19/98 e-mail from ERT Lukshides responding to previous spill update inquiry:Any cleanup measures? Oil source identified? when the Astoria tanker went to the location to conduct the clean up, originally reported as 2 pints unknown oil on 200 gallons of water, they found that a nearby fire hydrant was running and water from the hydrant was pouring in one side of the vault and back out the other side and that there was no oil in the vault. The tank truck pumped some of the water, but no oil found. A follow up on the 29th May (2 days later) reported still no oil in the hole. No source identified for original oil, but lab sequence is <1 ppm pcb.  
**Remarks:** caller states that on may 8th there was a 2 pint spill of unknown oil inside manhole. cleanup crew onsite today found that a hydrant was being flushed and flushed water out of manhole

**Material:**

Site ID: 304652  
Operable Unit ID: 1060490  
Operable Unit: 01  
Material ID: 320816

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE (Continued)**

**S103274727**

Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**C52**  
**ENE**  
**< 1/8**  
**0.055 mi.**  
**292 ft.**

**CON EDISON**  
**E 134 & LINCOLN AVE**  
**BRONX, NY**  
**Site 15 of 18 in cluster C**

**NY MANIFEST** **S112818113**  
**N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYP004281861  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: CON EDISON  
Mailing Address: 4 IRVING PL 15TH FL  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

**Actual:**  
**8 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 07-Jan-2013 00:00:00  
Trans1 Recv Date: 07-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 09-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004281861  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1179  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010408914JJK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S112818113**

Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	07-Jan-2013 00:00:00
Trans1 Recv Date:	07-Jan-2013 00:00:00
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09-Jan-2013 00:00:00
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004281861
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSD ID:	NJD002200046
Waste Code:	Not reported
Quantity:	1179
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	010408914JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C53  
ENE  
< 1/8  
0.057 mi.  
302 ft.

CON EDISON MANHOLE: 17444  
E 134TH ST & LINCOLN AVE  
BRONX, NY 10451

RCRA-CESQG 1016149521  
NYP004281853

Site 16 of 18 in cluster C

Relative:  
Higher

RCRA-CESQG:

Date form received by agency: 01/07/2013

Facility name: CON EDISON MANHOLE: 17444

Facility address: E 134TH ST & LINCOLN AVE

BRONX, NY 10451

EPA ID: NYP004281853

Mailing address: IRVING PL, RM 828

NEW YORK, NY 10003

Contact: CHRISTOPHER BLAICH

Contact address: Not reported

Not reported

Contact country: Not reported

Contact telephone: (914) 925-6219

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C54**  
**ENE**  
**< 1/8**  
**0.057 mi.**  
**302 ft.**

**CON EDISON MANHOLE: 17445**  
**E 134TH ST & LINCOLN AVE**  
**BRONX, NY 10451**

**RCRA-CESQG** **1016149522**  
**NYP004281861**

**Site 17 of 18 in cluster C**

**Relative:**  
**Higher**

RCRA-CESQG:

Date form received by agency: 01/07/2013

Facility name: CON EDISON MANHOLE: 17445

Facility address: E 134TH ST & LINCOLN AVE

BRONX, NY 10451

EPA ID: NYP004281861

Mailing address: IRVING PL, RM 828

NEW YORK, NY 10003

Contact: CHRISTOPHER BLAICH

Contact address: Not reported

Not reported

Contact country: Not reported

Contact telephone: (914) 925-6219

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Used oil transporter: No

Violation Status: No violations found

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**C55**  
**ENE**  
**< 1/8**  
**0.058 mi.**  
**305 ft.**

**MANHOLE # 17444**  
**LINCLON AVE&134TH SR**  
**BRONX, NY**

**NY Spills S106697717**  
**N/A**

**Site 18 of 18 in cluster C**

**Relative:**  
**Higher**

**SPILLS:**

Facility ID: 0404510  
 Facility Type: ER  
 DER Facility ID: 124034  
 Site ID: 145565  
 DEC Region: 2  
 Spill Date: 7/27/2004  
 Spill Number/Closed Date: 0404510 / 10/7/2004  
 Spill Cause: Equipment Failure  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**8 ft.**

**SWIS:**

Investigator: JHOCONNE  
 Referred To: Not reported  
 Reported to Dept: 7/27/2004  
 CID: 444  
 Water Affected: Not reported  
 Spill Source: Institutional, Educational, Gov., Other  
 Spill Notifier: Responsible Party  
 Cleanup Ceased: Not reported  
 Cleanup Meets Std: False  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Trust: False  
 Remediation Phase: 0  
 Date Entered In Computer: 7/27/2004  
 Spill Record Last Update: 10/7/2004  
 Spiller Name: ERT DESK  
 Spiller Company: CONED  
 Spiller Address: Not reported  
 Spiller City,St,Zip: ZZ  
 Spiller Company: 001  
 Contact Name: ERT DESK  
 Contact Phone: (212) 580-8383  
 DEC Memo: e2mis no. 154542:Flush Mechanic Orlando Negron 18400, reports finding a leaking joint, a d-fault, where 10 ounces of dielectric fluid leaked and spilled in the manhole where it is contained. Cleanup pending deenergizing feeder in the vault. Lab Sequence Number: 04-05877-001: TOTAL PCB 11 ppm27-July-2004 22:40 hrs.Tanker removed 1000 gallons of liquid and there were no solids removed by the flush truck. The crew double washed and rinsed the manhole with 760 soap and water and the CFS tanker removed all liquids. There was no evidence of how the oil entered the manhole, the original joint that was suspected was not leaking and verified by the FOD. on site. The crew removed the Environmental tag # 30758. The underground are on location to repair all "D-Faults" in the manhole. CLEANUP COMPLETE.

**Remarks:**

FAULTY PIECE OF EQUIPMENT: LEAKING JOINT, DEFAULT IN THE HIOLE NO TO 5 QUESTIONS: CON ED # 154542

**Material:**

Site ID: 145565  
 Operable Unit ID: 887446  
 Operable Unit: 01  
 Material ID: 488501

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE # 17444 (Continued)**

**S106697717**

Material Code: 0541A  
Material Name: DIELECTRIC FLUID  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**E56**  
**NNE**  
**< 1/8**  
**0.061 mi.**  
**320 ft.**

**213672; THIRD AVE & E134 ST**  
**THIRD AVE & E134 ST**  
**NEW YORK, NY**  
**Site 1 of 10 in cluster E**

**NY Spills S110306578**  
**N/A**

**Relative:**  
**Higher**

**SPILLS:**

**Actual:**  
**10 ft.**

Facility ID: 0814471  
Facility Type: ER  
DER Facility ID: 386715  
Site ID: 432428  
DEC Region: 2  
Spill Date: 9/16/2008  
Spill Number/Closed Date: 0814471 / 9/23/2008  
Spill Cause: Unknown  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

**SWIS:** 0301  
Investigator: DMPOKRZY  
Referred To: Not reported  
Reported to Dept: 12/31/2008  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 4/16/2010  
Spill Record Last Update: 4/16/2010  
Spiller Name: ERT DESK  
Spiller Company: CON EDISON  
Spiller Address: 5030 BROADWAY  
Spiller City,St,Zip: New York, NY  
Spiller Company: 001  
Contact Name: ERT DESK  
Contact Phone: (212) 580-8383  
DEC Memo: Not reported  
Remarks: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**213672; THIRD AVE & E134 ST (Continued)**

**S110306578**

Material:

Site ID: 432428  
Operable Unit ID: 1183489  
Operable Unit: 01  
Material ID: 2177677  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**E57**  
**NNE**  
**< 1/8**  
**0.061 mi.**  
**320 ft.**

**209594; N/S EAST 134 STREETT**  
**N/S EAST 134 STREETT**  
**BRONX, NY**

**NY Spills S109208182**  
**N/A**

**Site 2 of 10 in cluster E**

**Relative:**  
**Higher**

SPILLS:

Facility ID: 0890348  
Facility Type: ER  
DER Facility ID: 348761  
Site ID: 399436  
DEC Region: 2  
Spill Date: 1/23/2008  
Spill Number/Closed Date: 0890348 / 2/12/2008  
Spill Cause: Unknown  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**10 ft.**

SWIS: 0301  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 4/11/2008  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 6/12/2008  
Spill Record Last Update: 6/12/2008  
Spiller Name: ERT DESK  
Spiller Company: CON EDISON  
Spiller Address: 5030 BROADWAY  
Spiller City,St,Zip: New York, NY  
Spiller Company: 001



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**209594; N/S EAST 134 STREETT (Continued)**

**S109208182**

Contact Name: ERT DESK  
Contact Phone: (212) 580-8383  
DEC Memo: Not reported  
Remarks: MH-6183 - 1 gallon of unknown oil in dirt on the concrete floor of the structure  
Closed: Agency Approval Not Required

Material:  
Site ID: 399436  
Operable Unit ID: 1156302  
Operable Unit: 01  
Material ID: 2147181  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**F58  
East  
< 1/8  
0.062 mi.  
326 ft.**

**CON EDISON MANHOLE 3422  
BRUCKNER BLVD 24 FEET E E COR  
BRONX, NY 10454**

**RCRA NonGen / NLR 1014919437  
NYP004236032**

**Site 1 of 3 in cluster F**

**Relative:  
Higher**

RCRA NonGen / NLR:

**Actual:  
11 ft.**

Date form received by agency: 06/23/2011  
Facility name: CON EDISON MANHOLE 3422  
Facility address: BRUCKNER BLVD 24 FEET E E COR  
STRATFORD AVE N SIDE  
BRONX, NY 10454  
EPA ID: NYP004236032  
Mailing address: IRVING PLAZA RM 828  
NEW YORK, NY 10003  
Contact: DENNIS ROHRER  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (914) 925-6219  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE 3422 (Continued)**

1014919437

Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 05/24/2011  
Facility name: CON EDISON MANHOLE 3422  
Classification: Conditionally Exempt Small Quantity Generator  
  
Violation Status: No violations found

E59  
NNE  
< 1/8  
0.063 mi.  
334 ft.

**CON EDISON  
E 134TH ST & 3RD AVE  
BRONX, NY 10451  
Site 3 of 10 in cluster E**

RCRA NonGen / NLR 1014398639  
NYP004209951

Relative:  
Higher

RCRA NonGen / NLR:

Date form received by agency: 06/28/2010  
Facility name: CON EDISON  
Facility address: E 134TH ST & 3RD AVE  
BRONX, NY 10451  
EPA ID: NYP004209951  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: ANTHONY BUDA  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (917) 440-1809  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:  
10 ft.

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

E60  
NNE  
< 1/8  
0.063 mi.  
334 ft.

CONSOLIDATED EDISON  
EAST 134TH ST & BRUCKNER BLVD  
BRONX, NY 10451

NY MANIFEST S110823905  
N/A

Site 4 of 10 in cluster E

Relative:  
Higher

NY MANIFEST:

EPA ID: NYP004228736  
Country: USA  
Mailing Name: CONSOLIDATED EDISON  
Mailing Contact: TOM TEELING  
Mailing Address: 4 IRVING PLACE RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Actual:  
10 ft.

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 2011-02-22  
Trans1 Recv Date: 2011-02-22  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2011-02-25  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004228736  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 100.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2011  
Manifest Tracking Num: 007660007JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: Y  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E61**  
**North**  
**< 1/8**  
**0.070 mi.**  
**369 ft.**

**225 E 134TH ST**  
**BRONX, NY 10451**

**EDR US Hist Auto Stat** **1015339808**  
**N/A**

**Site 5 of 10 in cluster E**

**Relative:**  
**Higher**  
  
**Actual:**  
**8 ft.**

EDR Historical Auto Stations:

- Name: MOCA AUTO REPAIR  
Year: 2005  
Address: 225 E 134TH ST
- Name: MOCA AUTO REPAIR  
Year: 2006  
Address: 225 E 134TH ST
- Name: MOCA AUTO REPAIR  
Year: 2007  
Address: 225 E 134TH ST
- Name: DIFFUSE AUTO REPAIR  
Year: 2008  
Address: 225 E 134TH ST
- Name: DIFFUSE AUTO REPAIR  
Year: 2009  
Address: 225 E 134TH ST
- Name: DIFFUSE AUTO REPAIR  
Year: 2010  
Address: 225 E 134TH ST
- Name: DIFFUSE AUTO REPAIR  
Year: 2011  
Address: 225 E 134TH ST
- Name: DIFFUSE AUTO REPAIR  
Year: 2012  
Address: 225 E 134TH ST

**E62**  
**North**  
**< 1/8**  
**0.070 mi.**  
**369 ft.**

**225 EAST 134TH STREET**  
**225 EAST 134TH STREET**  
**BRONX, NY 10451**

**NY SPILLS 90** **S112394578**  
**N/A**

**Site 6 of 10 in cluster E**

**Relative:**  
**Higher**  
  
**Actual:**  
**8 ft.**

Spills:

- Status: ACTIVE
- Contact Name: Not reported
- Contact Phone: Not reported
- Site ID: 1211842
- Secondary ID: 474983
- Cross Street: Not reported
- County: BRONX
- Longitude: 0
- Latitude: 0
- Elevation: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E63**  
**North**  
**< 1/8**  
**0.070 mi.**  
**369 ft.**

**SPILL NUMBER 0108616**  
**225 EAST 134TH ST**  
**BRONX, NY**  
**Site 7 of 10 in cluster E**

**NY LTANKS** **S105230093**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**8 ft.**

Site ID: 108989  
 Spill Number/Closed Date: 0108616 / 3/29/2004  
 Spill Date: 11/27/2001  
 Spill Cause: Tank Overfill  
 Spill Source: Commercial/Industrial  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 0301  
 Investigator: CESA WYER  
 Referred To: Not reported  
 Reported to Dept: 11/27/2001  
 CID: 281  
 Water Affected: Not reported  
 Spill Notifier: Other  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: False  
 Remediation Phase: 0  
 Date Entered In Computer: 11/27/2001  
 Spill Record Last Update: 3/29/2004  
 Spiller Name: MOSHE ALTMART  
 Spiller Company: FABOY LLC  
 Spiller Address: 2447 3RD AVE  
 Spiller City,St,Zip: BRONX, NY 10451-001  
 Spiller County: 001  
 Spiller Contact: ROGER LOUGHLIN  
 Spiller Phone: (718) 832-6700  
 Spiller Extention: Not reported  
 DEC Region: 2  
 DER Facility ID: 95773  
 DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SAWYER"1/7/04-Vought-Spill transferred from Vought to Austin.1/27/04 - Sawyer - Spill transferred from Austin to Sawyer.3/29/04 - Sawyer - Minor spill no further info for 2 years. Mr. Altmart is going to send manifest or receipt. Closed.

Remarks: CUSTOMER OVER ORDER FUEL OIL AT ABOVE LOCATION CASUING A TANK OVERFILL.

Material:

Site ID: 108989  
 Operable Unit ID: 846023  
 Operable Unit: 01  
 Material ID: 529855  
 Material Code: 0001A  
 Material Name: #2 Fuel Oil  
 Case No.: Not reported  
 Material FA: Petroleum  
 Quantity: 8  
 Units: Gallons  
 Recovered: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPILL NUMBER 0108616 (Continued)**

**S105230093**

Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**SPILLS:**

Facility ID: 9901930  
Facility Type: ER  
DER Facility ID: 95773  
Site ID: 108990  
DEC Region: 2  
Spill Date: 5/19/1999  
Spill Number/Closed Date: 9901930 / 4/3/2002  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: CAENGELH  
Referred To: Not reported  
Reported to Dept: 5/19/1999  
CID: 389  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/19/1999  
Spill Record Last Update: 4/3/2002  
Spiller Name: BILL MURPHY  
Spiller Company: TM MANHOLE 728  
Spiller Address: 225 EAST 134TH ST  
Spiller City,St,Zip: BRONX, NY  
Spiller Company: 001  
Contact Name: BILL MURPHY  
Contact Phone: (212) 580-6763  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ENGELHARDT"DEC INSPECTOR NOTES5-20-99 E-Mailed Con Ed ERTs for copy of E2MIS report.CON ED E2MIS NOTES 5-20-99Approx. 1 qt. oil and 100 gals. of water found in TM728. Tag #24562 placed and sample taken on a 4hr turnover. Spill being treated as a 50-499 ppm due to a transformer drop. Plate #6A3 indicates no sewer connection. based on this information it is being assumed that ther ehas been no outside impact. Water and oil are both contained in structure.2056hrs. Results; Aroclor 1254; <1ppm5-19-99 2121hrs. Cleanup complete, tag puled.

Remarks: unknown oil contained in tm manhole 728 con ed 124976

**Material:**

Site ID: 108990  
Operable Unit ID: 1080696  
Operable Unit: 01  
Material ID: 305457

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPILL NUMBER 0108616 (Continued)**

**S105230093**

Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**E64**  
**North**  
**< 1/8**  
**0.070 mi.**  
**369 ft.**

**225 EAST 134TH STREET**  
**225 EAST 134TH STREET**  
**BRONX, NY 10451**  
**Site 8 of 10 in cluster E**

**NY AST** **U003383315**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

AST:  
Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-034576  
Program Type: PBS  
UTM X: 590228.06110000005  
UTM Y: 4518131.4717300003  
Expiration Date: 2016/12/02  
Site Type: Other

**Actual:**  
**8 ft.**

Affiliation Records:  
Site Id: 287  
Affiliation Type: Facility Owner  
Company Name: 225 EAST REALTY CORP.  
Contact Type: VP  
Contact Name: MOSHE ALTMARK  
Address1: 2447 THIRD AVENUE  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10451  
Country Code: 001  
Phone: (718) 585-3242  
EMail: Not reported  
Fax Number: Not reported  
Modified By: KAKYER  
Date Last Modified: 6/25/2007

Site Id: 287  
Affiliation Type: Mail Contact  
Company Name: 225 EAST REALTY CORP.  
Contact Type: Not reported  
Contact Name: MOSHIE ALTMARK  
Address1: 2447 THIRD AVENUE  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10451

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**225 EAST 134TH STREET (Continued)**

**U003383315**

Country Code: 001  
Phone: (718) 585-3242  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 287  
Affiliation Type: On-Site Operator  
Company Name: 225 EAST 134TH STREET  
Contact Type: Not reported  
Contact Name: MOSHE ALTMARK  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 585-3242  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 287  
Affiliation Type: Emergency Contact  
Company Name: 225 EAST REALTY CORP.  
Contact Type: Not reported  
Contact Name: MOSHE ALTMARK  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (917) 807-4738  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 001  
Tank Id: 1049  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

K00 - Spill Prevention - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
I04 - Overfill - Product Level Gauge (A/G)  
A01 - Tank Internal Protection - Epoxy Liner  
I05 - Overfill - Vent Whistle



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

225 EAST 134TH STREET (Continued)

U003383315

C03 - Pipe Location - Aboveground/Underground Combination  
E00 - Piping Secondary Containment - None  
F01 - Pipe External Protection - Painted/Asphalt Coating  
H00 - Tank Leak Detection - None  
B05 - Tank External Protection - Jacketed  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 11/01/1965  
Capacity Gallons: 3200  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: KAKYER  
Last Modified: 06/25/2007  
Material Name: #2 Fuel Oil (On-Site Consumption)

SPILLS:

Facility ID: 1211842  
Facility Type: ER  
DER Facility ID: 287  
Site ID: 474983  
DEC Region: 2  
Spill Date: 10/29/2012  
Spill Number/Closed Date: 1211842 / 3/27/2013  
Spill Cause: Storm  
Spill Class: Not reported  
SWIS: 0301  
Investigator: Hurricane Sandy R2  
Referred To: Not reported  
Reported to Dept: 11/13/2012  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: DEC  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: Not reported  
Date Entered In Computer: 11/20/2012  
Spill Record Last Update: 11/20/2012  
Spiller Name: Not reported  
Spiller Company: Not reported  
Spiller Address: Not reported  
Spiller City,St,Zip: Not reported  
Spiller Company: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: This spill report was created for tracking purposes related to the Department's Hurricane Sandy emergency response efforts.pumped out 11/08/2012 by Op-Tech. 1700 gallons removed.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**225 EAST 134TH STREET (Continued)**

**U003383315**

Remarks: Not reported

Material:

Site ID: 474983

Operable Unit ID: 1224821

Operable Unit: 01

Material ID: 2228515

Material Code: 0001A

Material Name: #2 Fuel Oil

Case No.: Not reported

Material FA: Petroleum

Quantity: Not reported

Units: Not reported

Recovered: 1700

Resource Affected: Not reported

Oxygenate: False

Tank Test:

**G65**  
**SE**  
 < 1/8  
 0.070 mi.  
 370 ft.

**PETRO RECYCLING LLC (290EAST 132STREET)**  
**290 EAST 132 STREET**  
**BRONX, NY 10454**

**NY SWF/LF S105841229**  
**N/A**

**Site 1 of 2 in cluster G**

**Relative:**  
**Higher**

**Actual:**  
**10 ft.**

SWF/LF:

Flag: ACTIVE

Region Code: 2

Phone Number: 9147778292

Owner Name: Petro Recycling LLC

Owner Type: Private

Owner Address: 335 Ceater Avenue

Owner Addr2: Not reported

Owner City,St,Zip: Mamaroneck, NY 10543

Owner Email: TGleason@mfmcontracting.com

Owner Phone: 9147778292

Contact Name: Not reported

Contact Address: Not reported

Contact Addr2: Not reported

Contact City,St,Zip: Not reported

Contact Email: Not reported

Contact Phone: Not reported

Activity Desc: C&D processing - registration

Activity Number: [03W081]

Active: Yes

East Coordinate: 590988

North Coordinate: 4517447

Accuracy Code: 4.3 - Utilization of Digital Orthophoto Quads

Regulatory Status: Registration

Waste Type: Concrete;Asphalt;Rock;Soil (Clean)

Authorization #: Not reported

Authorization Date: Not reported

Expiration Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E66**  
**North**  
**< 1/8**  
**0.070 mi.**  
**371 ft.**

**LOT 98,TAXBLOCK 2319**  
**220 EAST 134 STREET**  
**BRONX, NY 10451**  
**Site 9 of 10 in cluster E**

**NY E DESIGNATION**

**S108076802**  
**N/A**

**Relative:**  
**Higher**

E DESIGNATION:

**Actual:**  
**8 ft.**

Tax Lot(s):	98
E-No:	E-143
Effective Date:	3/9/2005
Satisfaction Date:	Not reported
Ceqr Number:	05DCP005X
Ulurp Number:	050120 ZMX
Zoning Map No:	6a,6b
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BX
Community District:	201
Census Tract:	53.01
Census Block:	9037
School District:	07
City Council District:	17
Fire Company:	E060
Health Area:	23
Police Precinct:	040
Zone District 1:	M1-3/R8
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-1
Special Purpose District2:	Not reported
All Components1:	M1-3/R8/MX-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	F9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	FIVE BORO STORAGE INC
Lot Area:	000018617
Total Building Floor Area:	00000039264
Commercial Floor Area:	00000039264
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000039264
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code7	
Number of Buildings:	00001
Number of Floors:	006.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0094.50
Lot Depth:	0197.00
Building Frontage:	0038.00
Building Depth:	0143.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 98,TAXBLOCK 2319 (Continued)**

**S108076802**

Basement Type Grade: 5  
Land Assessed Value: 00000065250  
Total Assessed Value: 00000229050  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1955  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0002.11  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190098  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003341  
Y Coordinate: 0234065  
Zoning Map: 06A  
Sanborn Map: 209S001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006  
Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

Tax Lot(s): 98  
E-No: E-143  
Effective Date: 3/9/2005  
Satisfaction Date: Not reported  
Ceqr Number: 05DCP005X  
Ulurp Number: 050120 ZMX  
Zoning Map No: 6a,6b  
Description: Window Wall Attenuation & Alternate Ventilation  
Borough Code: BX  
Community District: 201  
Census Tract: 53.01  
Census Block: 9037  
School District: 07  
City Council District: 17  
Fire Company: E060  
Health Area: 23  
Police Precinct: 040  
Zone District 1: M1-3/R8  
Zone District 2: Not reported  
Commercial Overlay1: Not reported  
Commercial Overlay2: Not reported  
Special Purpose District1: MX-1  
Special Purpose District2: Not reported  
All Components1: M1-3/R8/MX-1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LOT 98,TAXBLOCK 2319 (Continued)

S108076802

All Components2: Not reported  
Split Boundary Indicator: N  
Building Class: F9  
Land Use Category: 06  
Number of Easements: 0  
Owner, Type of Code: Not reported  
Owner Name: FIVE BORO STORAGE INC  
Lot Area: 000018617  
Total Building Floor Area: 00000039264  
Commercial Floor Area: 00000039264  
Office Floor Area: 00000000000  
Retail Floor Area: 00000000000  
Garage Floor Area: 00000000000  
Storage Floor Area: 00000000000  
Factory Floor Area: 00000039264  
Other Floor Area: 00000000000  
Floor Area,Total Bld Source Code7  
Number of Buildings: 00001  
Number of Floors: 006.00  
Residential Units: 00000  
Non and Residential Units: 00001  
Lot Frontage: 0094.50  
Lot Depth: 0197.00  
Building Frontage: 0038.00  
Building Depth: 0143.00  
Proximity Code: 0  
Irregular Lot Code: N  
Lot Type: 5  
Basement Type Grade: 5  
Land Assessed Value: 00000065250  
Total Assessed Value: 00000229050  
Land Exempt Value: 00000000000  
Total Exempt Value: 00000000000  
Year Built: 1955  
Year Built Code: Not reported  
Year Altered1: 0000  
Year Altered2: 0000  
Historic District Name: Not reported  
Landmark Name: Not reported  
Built Floor Area Ratio-Far: 0002.11  
Maximum Allowable Far: 07.20  
Borough Code: 2  
Borough Tax Block And Lot: 2023190098  
Condominium Number: 00000  
Census Tract 2: 005301  
X Coordinate: 1003341  
Y Coordinate: 0234065  
Zoning Map: 06A  
Sanborn Map: 209S001  
Tax Map: 20902  
E Designation No: E-143  
Date of RPAD Data: 11/2005  
Date of DCAS Data: 01/2006  
Date of Zoning Data: 11/2005  
Date of Major Property Data: 11/2005  
Date of Landmark Data: 12/2005  
Date of Base Map Data: 01/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 98,TAXBLOCK 2319 (Continued)**

**S108076802**

Date of Mass Appraisal Data: 11/2005  
Date of Political and Adm Data: 08/2005  
Pluto-Base Map Indicator: 1

**F67  
ESE  
< 1/8  
0.073 mi.  
384 ft.**

**26 BRUCKNER BLVD  
26 BRUCKNER BOULEVARD  
BRONX, NY 10454**

**NY AST U003389621  
N/A**

**Site 2 of 3 in cluster F**

**Relative:  
Higher**

AST:

Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-204609  
Program Type: PBS  
UTM X: 590420.80160999997  
UTM Y: 4517898.2682499997  
Expiration Date: 2008/11/25  
Site Type: Other

**Actual:  
13 ft.**

Affiliation Records:

Site Id: 7120  
Affiliation Type: Facility Owner  
Company Name: LIGHT ST. LLC  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 210 E. 86TH ST., SUITE 404  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10028-3003  
Country Code: 001  
Phone: (212) 772-7550  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 7120  
Affiliation Type: Mail Contact  
Company Name: LIGHT ST. LLC  
Contact Type: Not reported  
Contact Name: CHRISTOPHER PERSHEFF  
Address1: 210 EAST 86TH STREET  
Address2: SUITE 404  
City: NEW YORK  
State: NY  
Zip Code: 10028  
Country Code: 001  
Phone: (212) 772-7550  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 7120  
Affiliation Type: On-Site Operator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**26 BRUCKNER BLVD (Continued)**

**U003389621**

Company Name: 26 BRUCKNER BLVD  
Contact Type: Not reported  
Contact Name: GODFREY SPENCER  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (917) 561-1373  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 7120  
Affiliation Type: Emergency Contact  
Company Name: LIGHT ST. LLC  
Contact Type: Not reported  
Contact Name: CHRIS BOYLE  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 772-7550  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 001  
Tank Id: 17023  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
G00 - Tank Secondary Containment - None  
H00 - Tank Leak Detection - None  
B00 - Tank External Protection - None

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/1950  
Capacity Gallons: 5000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**26 BRUCKNER BLVD (Continued)**

**U003389621**

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: TRANSLAT  
Last Modified: 03/04/2004  
Material Name: #2 Fuel Oil (On-Site Consumption)

Tank Number: 1  
Tank Id: 67245  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
I00 - Overfill - None  
B00 - Tank External Protection - None

Tank Location: 6  
Tank Type: Stainless Steel Alloy  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 08/29/2000  
Capacity Gallons: 5000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: TRANSLAT  
Last Modified: 03/04/2004  
Material Name: #2 Fuel Oil (On-Site Consumption)

F68  
ESE  
< 1/8  
0.081 mi.  
428 ft.

**BETTER GRO**  
**29-31 BRUCKNER BLVD**  
**BRONX, NY 10461**

**NY MANIFEST 1009244527**  
**N/A**

**Site 3 of 3 in cluster F**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYT000907519  
Country: USA

**Actual:**  
**13 ft.**

Mailing Name: BETTER GRO  
Mailing Contact: GINA LAZAZZARA  
Mailing Address: 29-31 BRUCKNER BLVD  
Mailing Address 2: Not reported  
Mailing City: BRONX  
Mailing State: NY  
Mailing Zip: 10461  
Mailing Zip4: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BETTER GRO (Continued)**

1009244527

Mailing Country: USA  
Mailing Phone: 212-824-9654

Document ID: NJA1674098  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS581  
Trans2 State ID: Not reported  
Generator Ship Date: 930427  
Trans1 Recv Date: 930427  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 930427  
Part A Recv Date: Not reported  
Part B Recv Date: 930510  
Generator EPA ID: NYT000907519  
Trans1 EPA ID: NJD982281016  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00278  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 93

Document ID: NJA1674097  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS581  
Trans2 State ID: Not reported  
Generator Ship Date: 930427  
Trans1 Recv Date: 930427  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 930427  
Part A Recv Date: Not reported  
Part B Recv Date: 930510  
Generator EPA ID: NYT000907519  
Trans1 EPA ID: NJD982281016  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: U240 - 2,4 D, SALTS + ESTERS  
Quantity: 00256  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00268  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BETTER GRO (Continued)**

1009244527

Quantity: 00274  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00169  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 93

Document ID: NJA1674096  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS581  
Trans2 State ID: Not reported  
Generator Ship Date: 930427  
Trans1 Recv Date: 930427  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 930427  
Part A Recv Date: Not reported  
Part B Recv Date: 930510  
Generator EPA ID: NYT000907519  
Trans1 EPA ID: NJD982281016  
Trans2 EPA ID: Not reported  
TSDF ID: NJD002200046  
Waste Code: U240 - 2,4 D, SALTS + ESTERS  
Quantity: 00285  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00267  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00213  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00300  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BETTER GRO (Continued)**

1009244527

Specific Gravity: 100  
Year: 93

H69  
East  
< 1/8  
0.089 mi.  
471 ft.

**MH6129**  
**OPPOSITE 294 E 134TH STREET**  
**NEW YORK CITY, NY 10454**

**RCRA NonGen / NLR**  
**NY MANIFEST**

**1007207266**  
**NYP004041471**

**Site 1 of 5 in cluster H**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**18 ft.**

Date form received by agency: 01/03/2001  
Facility name: MH6129  
Facility address: OPPOSITE 294 E 134TH STREET  
NEW YORK CITY, NY 10454  
EPA ID: NYP004041471  
Mailing address: CONSOLIDATED EDISON INC.  
4 IRVING PLACE -- ROOM 300  
NEW YORK, NY 10003  
Contact: ANTHONY DRUMMINGS  
Contact address: CONSOLIDATED EDISON INC.  
NEW YORK, NY 10003  
Contact country: US  
Contact telephone: (212) 460-3770  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/02/2001  
Facility name: MH6129  
Classification: Not a generator, verified

Date form received by agency: 01/01/2001  
Facility name: MH6129  
Classification: Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MH6129 (Continued)**

**1007207266**

EPA ID: NYP004041471  
Country: USA  
Mailing Name: CONSOLIDATED EDISON  
Mailing Contact: FRANKLIN MURRAY  
Mailing Address: 4 IRVING PLACE RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

Document ID: NYE0403434  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 08/12/1999  
Trans1 Recv Date: 08/12/1999  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 08/13/1999  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004041471  
Trans1 EPA ID: NYD077444263  
Trans2 EPA ID: Not reported  
TSDF ID: 43056AN  
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES  
Quantity: 00174  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 01.00  
Year: 99

Document ID: NYE0214380  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 08/12/1999  
Trans1 Recv Date: 08/12/1999  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 08/12/1999  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004041471  
Trans1 EPA ID: NYD980593636  
Trans2 EPA ID: Not reported  
TSDF ID: SM1709  
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB  
Quantity: 07073  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 001  
Container Type: TT - Cargo tank, tank trucks

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MH6129 (Continued)**

1007207266

Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 99

H70  
East  
< 1/8  
0.089 mi.  
471 ft.

**MANHOLE 6128**  
**294 E 134 ST**  
**BRONX, NY**  
**Site 2 of 5 in cluster H**

**NY Spills S104193889**  
**N/A**

**Relative:**  
**Higher**

**SPILLS:**

**Actual:**  
**18 ft.**

Facility ID: 9905698  
Facility Type: ER  
DER Facility ID: 191188  
Site ID: 231998  
DEC Region: 2  
Spill Date: 8/11/1999  
Spill Number/Closed Date: 9905698 / 2/22/2002  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

**SWIS:**

Investigator: CAENGELH  
Referred To: Not reported  
Reported to Dept: 8/11/1999  
CID: 207  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 8/11/1999  
Spill Record Last Update: 7/26/2002  
Spiller Name: CALLER  
Spiller Company: CON ED  
Spiller Address: 4 IRVING PL  
Spiller City,St,Zip: MANHATTAN, NY 10003  
Spiller Company: 001  
Contact Name: BILL MURPHY  
Contact Phone: (212) 580-6763  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ENGELHARDT"

Remarks: 2 qts unk oil in manhole

**Material:**

Site ID: 231998  
Operable Unit ID: 1080139  
Operable Unit: 01  
Material ID: 301989  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE 6128 (Continued)**

**S104193889**

Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

E71  
NNE  
< 1/8  
0.094 mi.  
495 ft.

**2454 3RD AVE  
BRONX, NY 10454**

EDR US Hist Auto Stat 1015359301  
N/A

**Site 10 of 10 in cluster E**

Relative:  
Higher  
  
Actual:  
12 ft.

EDR Historical Auto Stations:

Name: BETEL AUTO REPAIR  
Year: 1999  
Address: 2454 3RD AVE

Name: BETEL AUTO REPAIR  
Year: 2000  
Address: 2454 3RD AVE

Name: BETEL AUTO REPAIR  
Year: 2001  
Address: 2454 3RD AVE

Name: JP AUTO & MOTO WORKS  
Year: 2002  
Address: 2454 3RD AVE

Name: BETEL AUTO REPAIR  
Year: 2003  
Address: 2454 3RD AVE

Name: BET EL AUTO REPAIR  
Year: 2004  
Address: 2454 3RD AVE

Name: BETEL AUTO REPAIR  
Year: 2005  
Address: 2454 3RD AVE

Name: BETEL AUTO REPAIR  
Year: 2006  
Address: 2454 3RD AVE

Name: J P AUTO & MOTOR WORKS  
Year: 2007  
Address: 2454 3RD AVE

Name: BETEL AUTO REPAIR  
Year: 2010  
Address: 2454 3RD AVE

Name: BETEL AUTO REPAIR  
Year: 2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

1015359301

Address: 2454 3RD AVE

H72  
East  
< 1/8  
0.100 mi.  
528 ft.

**MANHOLE 6129**  
**300 EAST 134TH ST**  
**BRONX, NY**

**NY Spills S103937822**  
**N/A**

Site 3 of 5 in cluster H

Relative:  
Higher

Actual:  
18 ft.

SPILLS:

Facility ID: 9902347  
Facility Type: ER  
DER Facility ID: 247735  
Site ID: 306728  
DEC Region: 2  
Spill Date: 6/1/1999  
Spill Number/Closed Date: 9902347 / 5/18/2000  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: JHOCONNE  
Referred To: Not reported  
Reported to Dept: 6/1/1999  
CID: 388  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Affected Persons  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 6/1/1999  
Spill Record Last Update: 6/12/2000  
Spiller Name: Not reported  
Spiller Company: unknown  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: CALLER  
Contact Phone: (212) 580-8576  
DEC Memo:

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "O'CONNELL"CON ED E2MIS NOTES 6-18-991qt. of unknown oil was in 2,000 gals. of water. Sample was taken and tag #24532 placed. Conduit plate show there is no connection in hole. Oil and water are contained in MH, no sewers or waterways wer affected. Cleanup will begin as soon as a tanker is available as 50-499ppm.

Remarks: CALLER REPORTS 1 QUART ON 2000 GALLONS. CON ED #125211.

Material:

Site ID: 306728  
Operable Unit ID: 1077112  
Operable Unit: 01  
Material ID: 305853  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE 6129 (Continued)**

**S103937822**

Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**H73  
East  
< 1/8  
0.100 mi.  
528 ft.**

**MANHOLE 6129  
300 E 134TH ST  
BRONX, NY**

**NY Spills S103937906  
N/A**

**Site 4 of 5 in cluster H**

**Relative:  
Higher**

**SPILLS:**

**Actual:  
18 ft.**

Facility ID: 9902438  
Facility Type: ER  
DER Facility ID: 89592  
Site ID: 101044  
DEC Region: 2  
Spill Date: 6/2/1999  
Spill Number/Closed Date: 9902438 / 5/18/2000  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: CAENGELH  
Referred To: Not reported  
Reported to Dept: 6/2/1999  
CID: 246  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 6/2/1999  
Spill Record Last Update: 5/11/2004  
Spiller Name: BILL MURPHY  
Spiller Company: CON EDISON  
Spiller Address: 4 IRVING PLACE  
Spiller City,St,Zip: NEW YORK, NY 10003  
Spiller Company: 001  
Contact Name: BILL MURPHY  
Contact Phone: (212) 580-6763  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ENGELHARDT"CON ED E2MIS NOTES 7-08-99Insalutum found, approx. 1qt. on walls and cables in MH #6129, sample to be taken. Tag #24595 placed. Insalutum is contained within hole. Cleanup complete 1224 hrs. 6-3-99, tag removed.Oil & Grease 1 qt.PCB 0ppmAroclor 1242 1ppmAroclor 1254 1ppmAroclor 1260 1ppm

Remarks:

INSULATUM (INSULATING GREASE) LEAKED FROM FAILED FEEDER JOINT - 1 QT



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHOLE 6129 (Continued)**

**S103937906**

TOTAL - SAMPLE TAKEN CLEANUP PENDING RESULTS CON ED #125279

Material:  
Site ID: 101044  
Operable Unit ID: 1077192  
Operable Unit: 01  
Material ID: 305944  
Material Code: 9999  
Material Name: Other -  
Case No.: Not reported  
Material FA: Other  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

74  
SSW  
< 1/8  
0.106 mi.  
560 ft.

**GAYLORD WHITE HOUSES -NYCHA  
2029 SECOND AVENUE  
MANHATTAN, NY**

**NY Spills S102239804  
N/A**

**Relative:  
Lower**

**Actual:  
1 ft.**

SPILLS:  
Facility ID: 9601210  
Facility Type: ER  
DER Facility ID: 158786  
Site ID: 86270  
DEC Region: 2  
Spill Date: 4/24/1996  
Spill Number/Closed Date: 9601210 / 3/8/2006  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
  
SWIS: 3101  
Investigator: SWKRASZE  
Referred To: Not reported  
Reported to Dept: 4/24/1996  
CID: 365  
Water Affected: Not reported  
Spill Source: Non Major Facility > 1,100 gal  
Spill Notifier: Federal Government  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 4/24/1996  
Spill Record Last Update: 3/8/2006  
Spiller Name: FRANK OCELLO  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ -  
001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAYLORD WHITE HOUSES -NYCHA (Continued)**

**S102239804**

Contact Name: HUBERT ARTOPE (SUSP PARTY)  
Contact Phone: (212) 289-4600  
DEC Memo: 12/16/05: This spill transferred from J.Kolleeny to S.Kraszewski.03/08/06: This spill considered no threat to the environment or public health and safety. This spill closed out. - SK  
Remarks: SUSP PARTY IS SUSPOSEDLY DUMPING SOME TYPE OF PETROLEUM FROM A BOILER INTO THE SEWER  
Material:  
Site ID: 86270  
Operable Unit ID: 1032773  
Operable Unit: 01  
Material ID: 556505  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50  
Units: Gallons  
Recovered: 50  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**G75**  
**ESE**  
**< 1/8**  
**0.108 mi.**  
**569 ft.**

**MH 21502 IS TIDAL. HAS HALF PINT.**  
**327 EAST 132 STREET**  
**MANHATTAN, NY**  
**Site 2 of 2 in cluster G**

**NY Spills S109062691**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**9 ft.**  
SPILLS:  
Facility ID: 0801577  
Facility Type: ER  
DER Facility ID: 346960  
Site ID: 397546  
DEC Region: 2  
Spill Date: 5/9/2008  
Spill Number/Closed Date: 0801577 / 8/5/2008  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: gdbreen  
Referred To: Not reported  
Reported to Dept: 5/9/2008  
CID: 408  
Water Affected: TIDAL STRUCTURE  
Spill Source: Unknown  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/9/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MH 21502 IS TIDAL. HAS HALF PINT. (Continued)**

**S109062691**

Spill Record Last Update: 8/5/2008  
Spiller Name: Not reported  
Spiller Company: CON EDISON  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: ERTSDESK  
Contact Phone: (212) 580-8383  
DEC Memo: 08/05/08 - See eDocs for Con Ed report detailing cleanup and closure.211292. see eDocs  
Remarks: 1/2 PINT WAS SPILLED; CLOSEST BODY OF WTER IS THE EAST RIVER; 211292

Material:

Site ID: 397546  
Operable Unit ID: 1154490  
Operable Unit: 01  
Material ID: 2145291  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

176  
NE  
< 1/8  
0.110 mi.  
580 ft.

**CON EDISON MANHOLE 17450  
LINCOLN AVE & E 135TH ST  
BRONX, NY 10454**

**RCRA NonGen / NLR 1014918471  
NYP004220851**

**Site 1 of 4 in cluster I**

**Relative:  
Higher**

RCRA NonGen / NLR:

Date form received by agency: 12/30/2010  
Facility name: CON EDISON MANHOLE 17450  
Facility address: LINCOLN AVE & E 135TH ST  
BRONX, NY 10454  
EPA ID: NYP004220851  
Mailing address: IRVING PL RM 828  
NEW YORK, NY 10003  
Contact: DONALD SENNO  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (914) 925-6219  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Actual:  
17 ft.**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON MANHOLE 17450 (Continued)**

**1014918471**

Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Historical Generators:

Date form received by agency: 11/30/2010  
 Facility name: CON EDISON MANHOLE 17450  
 Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

**I77  
 NE  
 < 1/8  
 0.110 mi.  
 580 ft.**

**CON EDISON  
 LINCOLN AVE & E 135 ST  
 BRONX, NY 10454**

**NY MANIFEST S112211178  
 N/A**

**Site 2 of 4 in cluster I**

**Relative:  
 Higher**

NY MANIFEST:  
 EPA ID: NYP004274015  
 Country: USA  
 Mailing Name: CON EDISON  
 Mailing Contact: TOM TEELING  
 Mailing Address: 4 IRVING PLACE - 15TH FLOOR  
 Mailing Address 2: Not reported  
 Mailing City: NEW YORK  
 Mailing State: NY  
 Mailing Zip: 10003  
 Mailing Zip4: Not reported  
 Mailing Country: USA  
 Mailing Phone: 212-460-3770

**Actual:  
 17 ft.**

Document ID: Not reported  
 Manifest Status: Not reported  
 Trans1 State ID: NJ0000027193  
 Trans2 State ID: Not reported  
 Generator Ship Date: 2012-10-11  
 Trans1 Recv Date: 2012-10-11  
 Trans2 Recv Date: Not reported  
 TSD Site Recv Date: 2012-10-15  
 Part A Recv Date: Not reported  
 Part B Recv Date: Not reported  
 Generator EPA ID: NYP004274015  
 Trans1 EPA ID: Not reported  
 Trans2 EPA ID: Not reported  
 TSD ID: NJD002200046  
 Waste Code: Not reported  
 Quantity: 200.0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S112211178**

Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 010456904JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: Y  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

**J78**  
**WSW**  
**< 1/8**  
**0.112 mi.**  
**592 ft.**

**3RD AVE BRIDGE**  
**EAST 127TH STREET/HARLEM**  
**NEW YORK, NY**

**NY Spills S106868633**  
**N/A**

**Site 1 of 2 in cluster J**

**Relative:**  
**Lower**

**SPILLS:**

Facility ID: 0501296  
Facility Type: ER  
DER Facility ID: 291124  
Site ID: 344432  
DEC Region: 2  
Spill Date: 5/2/2005  
Spill Number/Closed Date: 0501296 / 2/23/2006  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**3 ft.**

**SWIS:** 3101  
Investigator: rvketani  
Referred To: Not reported  
Reported to Dept: 5/2/2005  
CID: 444  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/2/2005  
Spill Record Last Update: 3/7/2006  
Spiller Name: RONI WERMAN  
Spiller Company: 3RD AVE BRIDGE  
Spiller Address: EAST 127TH STREET/HARLEM  
Spiller City,St,Zip: NEW YORK, NY  
Spiller Company: 001  
Contact Name: RONI WERMAN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3RD AVE BRIDGE (Continued)**

**S106868633**

Contact Phone: (212) 289-0006  
DEC Memo: Continuation of an ongoing problem assigned to Sawyer. Minor spill to cement area. Photos will be submitted to DEC. Minor spill case associated with Spill #0404341 Case has been switched from Sawyer to Tipple 12/16/05 - Raphael Ketani. Roni Werman called and said that the oil from this spill has been cleaned up and containerized in 7 drums. They are waiting for the contractor to haul the drums away. Dan Garcia of Parson Brinkerhoff is the on site consultant for managing the spill and other housekeeping issues. He said that the spill has not impacted drains, sewers, or the environment. He said he will get me a report stating this via FAX. 1/4/06 - Raphael Ketani. Jerry Hickson of Parsons-Brinkerhoff ((212) 289-0006) called to say that everything has been drummed up, except an area with foam which forms a berm containing a little hydraulic fluid. He said this will be cleaned up soon and that the DEC will get the closure report in 2 weeks. 2/1/06 - Raphael Ketani. Mr. Hickson called to say they dug up the soil and containerized 48 drums of contaminated soil. He said that all of the contamination was from the servicing and fueling of heavy equipment. Mr. Hickson added that the soil had been on concrete and Severn Trent put down absorbent on the concrete to soak up any residues that were left. Mr. Hickson said that DEC should receive the cleanup report with manifests and all other documentation soon. 2/23/06 - Raphael Ketani. I received the closure report from Parsons-Brinkerhoff Construction Services dated 2/14/06 for the spill case. I reviewed it today and found that it addresses the contamination/spills and their cleanup. Therefore, I am closing the case. 3/3/06 - Raphael Ketani. I received a closure report dated 2/23/06 for the associated spill case #0404341.

Remarks: SOME LEAKAGE IN STAGE AREA FOR THE BRIDGE PROJECT: IN PROCESS OF CLEANING UP AND PUTTING IN DRUMS AND WILL SEND OUT:

Material:  
Site ID: 344432  
Operable Unit ID: 1103073  
Operable Unit: 01  
Material ID: 583278  
Material Code: 0008  
Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 344432  
Operable Unit ID: 1103073  
Operable Unit: 01  
Material ID: 583279  
Material Code: 0010  
Material Name: Hydraulic Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3RD AVE BRIDGE (Continued)**

**S106868633**

Tank Test:

**J79**  
**WSW**  
**< 1/8**  
**0.112 mi.**  
**592 ft.**

**SPILL NUMBER 0110814**  
**3RD AVE BRIDGE**  
**HARLEM, NY**

**NY Spills S106001081**  
**N/A**

**Site 2 of 2 in cluster J**

**Relative:**  
**Lower**

**SPILLS:**

**Actual:**  
**3 ft.**

Facility ID: 0110814  
Facility Type: ER  
DER Facility ID: 152799  
Site ID: 182353  
DEC Region: 2  
Spill Date: 2/12/2002  
Spill Number/Closed Date: 0110814 / 2/14/2002  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
  
SWIS: 3101  
Investigator: JBVOUGHT  
Referred To: Not reported  
Reported to Dept: 2/12/2002  
CID: 257  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2/12/2002  
Spill Record Last Update: 2/14/2002  
Spiller Name: Not reported  
Spiller Company: Not reported  
Spiller Address: 3RD AVE BRIDGE  
Spiller City,St,Zip: HARLEM, NY  
Spiller Company: 001  
Contact Name: RONI WERMAN  
Contact Phone: (917) 603-1355  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "VOUGHT"02/14/2002-VOUGHT- Ronnie Werman- Contractors were demolishing an old concrete plant and two dust filters from the plant containing cement powder fell into the river and were unable to be retrieved. Filters were 2'x1' bags. Closed spill as per Demeo. Spill closed 2/14/2002 by Vought.

Remarks: caller is taking silo down and there is some comtanination

Material:

Site ID: 182353  
Operable Unit ID: 849292  
Operable Unit: 01  
Material ID: 528421  
Material Code: 0082A  
Material Name: CEMENT PRODUCTS

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SPILL NUMBER 0110814 (Continued)**

**S106001081**

Case No.: Not reported  
 Material FA: Other  
 Quantity: 0  
 Units: Gallons  
 Recovered: No  
 Resource Affected: Not reported  
 Oxygenate: False

Tank Test:

**K80**  
**NNE**  
 < 1/8  
 0.115 mi.  
 607 ft.

**217562; E 135 ST AND THIRD AVE**  
**E 135 ST AND THIRD AVE**  
**BRONX, NY**  
 Site 1 of 7 in cluster K

**NY Spills S110307253**  
**N/A**

**Relative:**  
**Higher**

**SPILLS:**

**Actual:**  
**14 ft.**

Facility ID: 0914314  
 Facility Type: ER  
 DER Facility ID: 388760  
 Site ID: 433881  
 DEC Region: 2  
 Spill Date: 7/15/2009  
 Spill Number/Closed Date: 0914314 / 10/25/2009  
 Spill Cause: Unknown  
 Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

**SWIS:**  
 0301  
 Investigator: DMPOKRZY  
 Referred To: Not reported  
 Reported to Dept: 12/31/2009  
 CID: Not reported  
 Water Affected: Not reported  
 Spill Source: Commercial/Industrial  
 Spill Notifier: Responsible Party  
 Cleanup Ceased: Not reported  
 Cleanup Meets Std: False  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Trust: False  
 Remediation Phase: 0  
 Date Entered In Computer: 4/27/2010  
 Spill Record Last Update: 4/27/2010  
 Spiller Name: ERT DESK  
 Spiller Company: CON EDISON  
 Spiller Address: 5030 BROADWAY  
 Spiller City,St,Zip: New York, NY  
 Spiller Company: 001  
 Contact Name: ERT DESK  
 Contact Phone: (212) 580-8383  
 DEC Memo: Not reported  
 Remarks: Not reported

**Material:**

Site ID: 433881  
 Operable Unit ID: 1184730



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**217562; E 135 ST AND THIRD AVE (Continued)**

**S110307253**

Operable Unit: 01  
Material ID: 2179013  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**H81  
East  
< 1/8  
0.119 mi.  
627 ft.**

**HELLGATE NORTH SUBSTATION  
310 E. 134TH ST  
BRONX, NY**

**NY Spills S106010651  
N/A**

**Site 5 of 5 in cluster H**

**Relative:  
Higher**

**SPILLS:**

Facility ID: 0210318  
Facility Type: ER  
DER Facility ID: 64106  
Site ID: 67024  
DEC Region: 2  
Spill Date: 1/13/2003  
Spill Number/Closed Date: 0210318 / 3/2/2007  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:  
17 ft.**

**SWIS:** 0301  
Investigator: JHOCONNE  
Referred To: Not reported  
Reported to Dept: 1/13/2003  
CID: 322  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1/13/2003  
Spill Record Last Update: 3/2/2007  
Spiller Name: Not reported  
Spiller Company: CON ED  
Spiller Address: 4 IRVING PLACE  
Spiller City,St,Zip: NEW YORK, NY 10003  
Spiller Company: 001  
Contact Name: SEAN MCKEEVER  
Contact Phone: (212) 580-6763  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "O'CONNELL"see spill #9813810 for info on remediation of railroad

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HELLGATE NORTH SUBSTATION (Continued)**

**S106010651**

Remarks: vaults.  
1 oz. spill - from dead cable - clean up crew on the way

Material:  
Site ID: 67024  
Operable Unit ID: 861561  
Operable Unit: 01  
Material ID: 513707  
Material Code: 0541A  
Material Name: DIELECTRIC FLUID  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**L82**  
**East**  
**< 1/8**  
**0.120 mi.**  
**631 ft.**

**VAULT 600**  
**137TH ST ALEXANDER AV**  
**BRONX, NY**  
**Site 1 of 7 in cluster L**

**NY Spills S103937408**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**17 ft.**

SPILLS:  
Facility ID: 9901879  
Facility Type: ER  
DER Facility ID: 255399  
Site ID: 316763  
DEC Region: 2  
Spill Date: 5/18/1999  
Spill Number/Closed Date: 9901879 / 5/19/1999  
Spill Cause: Other  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS:  
Investigator: JHOCONNE  
Referred To: Not reported  
Reported to Dept: 5/18/1999  
CID: 382  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/18/1999  
Spill Record Last Update: 6/13/2000  
Spiller Name: CALLER  
Spiller Company: CON ED  
Spiller Address: 4 IRVING PLACE  
Spiller City,St,Zip: NEW YORK, NY 10003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VAULT 600 (Continued)**

**S103937408**

Spiller Company: 001  
Contact Name: MIKE CESARE  
Contact Phone: (212) 580-6763  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "O'CONNELL"DEC Inspector notes:5/18/99 : Alexander ave @ 137th st. Contractor for NYCHA welding metal fence sparks ignited debris on top of sidewalk, vault transformer FDNY on scene at my arrival. Fire is out, con ed using fire hose to cool transformer. No apparent breach on transformer tank. Conduit plate shows no sewer connection, but will confirm over 50 ppm tanker ordered from astoria, will use to evaluate water from vault, sample will be collected to confirm pcb count (historical is 7ppm). will pressure test unit and confirm sewer connection.  
Remarks: TRANSFORMER FIRE IN VAULT CAUSING THE SPILL. RECORDS INDICATE 7PPM FOR THE OIL. CLEAN UP WILL BEGIN WHEN FIRE IS OUT.

Material:  
Site ID: 316763  
Operable Unit ID: 1080634  
Operable Unit: 01  
Material ID: 305410  
Material Code: 0020A  
Material Name: TRANSFORMER OIL  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**I83**  
**NNE**  
**1/8-1/4**  
**0.127 mi.**  
**668 ft.**

**CON EDISON MANHOLE 15914**  
**3RD AVE & E 135TH ST**  
**BRONX, NY 10454**  
**Site 3 of 4 in cluster I**

**RCRA NonGen / NLR** **1014918476**  
**NYP004220901**

**Relative:**  
**Higher**

RCRA NonGen / NLR:  
Date form received by agency: 12/31/2010  
Facility name: CON EDISON MANHOLE 15914  
Facility address: 3RD AVE & E 135TH ST  
BRONX, NY 10454  
EPA ID: NYP004220901  
Mailing address: IRVING PL RM 828  
NEW YORK, NY 10003  
Contact: DONALD SENNO  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (914) 925-6219  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE 15914 (Continued)**

**1014918476**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 12/01/2010  
Facility name: CON EDISON MANHOLE 15914  
Classification: Conditionally Exempt Small Quantity Generator  
  
Violation Status: No violations found

**M84  
SE  
1/8-1/4  
0.129 mi.  
679 ft.**

**CON EDISON  
E 132ND ST & ALEXANDER AVE  
BRONX, NY**

**NY MANIFEST S112818134  
N/A**

**Site 1 of 2 in cluster M**

**Relative:  
Higher**

NY MANIFEST:

EPA ID: NYP004282091  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: CON EDISON  
Mailing Address: 4 IRVING PL 15TH FL  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

**Actual:  
8 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 08-Jan-2013 00:00:00  
Trans1 Recv Date: 08-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 09-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004282091  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S112818134**

TSDF ID: NJD002200046  
Waste Code: Not reported  
Quantity: 675  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010408911JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 08-Jan-2013 00:00:00  
Trans1 Recv Date: 08-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 09-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004282091  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID: NJD002200046  
Waste Code: Not reported  
Quantity: 675  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010408911JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M85**  
**SE**  
**1/8-1/4**  
**0.129 mi.**  
**679 ft.**

**CON EDISON MANHOLE: 23955**  
**E 132ND ST & ALEXANDER AVE NW**  
**BRONX, NY 10453**

**RCRA-CESQG** **1016149590**  
**NYP004282554**

**Site 2 of 2 in cluster M**

**Relative:**  
**Higher**

RCRA-CESQG:

Date form received by agency: 01/10/2013

Facility name: CON EDISON MANHOLE: 23955

Facility address: E 132ND ST & ALEXANDER AVE NW

COR

BRONX, NY 10453

EPA ID: NYP004282554

Mailing address: IRVING PL, RM 828

NEW YORK, NY 10003

Contact: GINO FRABASILE

Contact address: Not reported

Not reported

Contact country: Not reported

Contact telephone: (914) 925-6219

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Used oil transporter: No

Violation Status: No violations found

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>L86</b>	<b>CONSOLIDATED EDISON</b>	<b>NY MANIFEST</b>	<b>1009242041</b>
<b>ESE</b>	<b>BRUCKNER &amp; ALEXANDER</b>		<b>N/A</b>
<b>1/8-1/4</b>	<b>BRONX, NY</b>		
<b>0.130 mi.</b>			
<b>688 ft.</b>	<b>Site 2 of 7 in cluster L</b>		

<b>Relative:</b>	NY MANIFEST:		
<b>Higher</b>	EPA ID:	NYP004106308	
	Country:	USA	
<b>Actual:</b>	Mailing Name:	CONSOLIDATED EDISON	
<b>17 ft.</b>	Mailing Contact:	FRANKLIN MURRAY	
	Mailing Address:	4 IRVING PLACE RM 828	
	Mailing Address 2:	Not reported	
	Mailing City:	NEW YORK	
	Mailing State:	NY	
	Mailing Zip:	10003	
	Mailing Zip4:	Not reported	
	Mailing Country:	USA	
	Mailing Phone:	212-460-2808	
	Document ID:	NJA4071497	
	Manifest Status:	Not reported	
	Trans1 State ID:	NJ0000027193	
	Trans2 State ID:	Not reported	
	Generator Ship Date:	01/15/2003	
	Trans1 Recv Date:	01/15/2003	
	Trans2 Recv Date:	Not reported	
	TSD Site Recv Date:	01/15/2003	
	Part A Recv Date:	Not reported	
	Part B Recv Date:	Not reported	
	Generator EPA ID:	NYP004106308	
	Trans1 EPA ID:	NJD002200046	
	Trans2 EPA ID:	Not reported	
	TSD ID:	S5811	
	Waste Code:	D008 - LEAD 5.0 MG/L TCLP	
	Quantity:	00001	
	Units:	Y - Cubic yards* (.85 tons)	
	Number of Containers:	001	
	Container Type:	TT - Cargo tank, tank trucks	
	Handling Method:	T Chemical, physical, or biological treatment.	
	Specific Gravity:	01.00	
	Year:	2003	

<b>L87</b>	<b>CON EDISON MANHOLE 506</b>	<b>RCRA NonGen / NLR</b>	<b>1014918553</b>
<b>ESE</b>	<b>ALEXANDER AVE &amp; BRUCKNER BLVD</b>		<b>NYP004221693</b>
<b>1/8-1/4</b>	<b>BRONX, NY 10455</b>		
<b>0.131 mi.</b>			
<b>692 ft.</b>	<b>Site 3 of 7 in cluster L</b>		

<b>Relative:</b>	RCRA NonGen / NLR:		
<b>Higher</b>	Date form received by agency:	01/10/2011	
	Facility name:	CON EDISON MANHOLE 506	
<b>Actual:</b>	Facility address:	ALEXANDER AVE & BRUCKNER BLVD	
<b>17 ft.</b>		BRONX, NY 10455	
	EPA ID:	NYP004221693	
	Mailing address:	IRVING PL RM 828	
		NEW YORK, NY 10003	
	Contact:	DENNIS ROHRER	
	Contact address:	Not reported	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE 506 (Continued)**

**1014918553**

Contact country: Not reported  
Contact telephone: Not reported  
Contact telephone: (914) 925-6219  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 12/11/2010  
Facility name: CON EDISON MANHOLE 506  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

**I88  
NE  
1/8-1/4  
0.136 mi.  
720 ft.**

**MICHAEL ANGELO CO  
171 LINCOLN AVE  
BRONX, NY 10454  
Site 4 of 4 in cluster I**

**RCRA NonGen / NLR 1004760668  
FINDS NYR000055343  
NY MANIFEST**

**Relative:  
Higher**

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007  
Facility name: MICHAEL ANGELO CO  
Facility address: 171 LINCOLN AVE  
BRONX, NY 10454  
EPA ID: NYR000055343  
Mailing address: LINCOLN AVE  
BRONX, NY 10454  
Contact: ALEX BRUCK  
Contact address: LINCOLN AVE  
BRONX, NY 10454  
Contact country: US  
Contact telephone: (212) 724-7206  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Actual:  
20 ft.**

Owner/Operator Summary:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MICHAEL ANGELO CO (Continued)**

**1004760668**

Owner/operator name: ALEX BRUCK  
Owner/operator address: 4555 HUDSON PKWY  
BRONX, NY 10471  
Owner/operator country: US  
Owner/operator telephone: (212) 724-7206  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: ALEX BRUCK  
Owner/operator address: 4555 HUDSON PKWY  
BRONX, NY 10471  
Owner/operator country: US  
Owner/operator telephone: (212) 724-7206  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: MICHAEL ANGELO CO  
Classification: Not a generator, verified

Date form received by agency: 05/22/1998  
Facility name: MICHAEL ANGELO CO  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004543520

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MICHAEL ANGELO CO (Continued)**

**1004760668**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**NY MANIFEST:**

EPA ID: NYR000055343  
 Country: USA  
 Mailing Name: MICHAELANGELO INC  
 Mailing Contact: MICHAEL ANGELO  
 Mailing Address: 171 LINGOLN AVE  
 Mailing Address 2: Not reported  
 Mailing City: BRONX  
 Mailing State: NY  
 Mailing Zip: 10454  
 Mailing Zip4: Not reported  
 Mailing Country: USA  
 Mailing Phone: 718-601-9749

Document ID: MIA8498026  
 Manifest Status: Not reported  
 Trans1 State ID: NJD054126164  
 Trans2 State ID: Not reported  
 Generator Ship Date: 01/08/2002  
 Trans1 Recv Date: 01/08/2002  
 Trans2 Recv Date: Not reported  
 TSD Site Recv Date: 01/18/2002  
 Part A Recv Date: Not reported  
 Part B Recv Date: Not reported  
 Generator EPA ID: NYR000055343  
 Trans1 EPA ID: MID060975844  
 Trans2 EPA ID: Not reported  
 TSDF ID: 0448290ME  
 Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
 Quantity: 01600  
 Units: G - Gallons (liquids only)\* (8.3 pounds)  
 Number of Containers: 032  
 Container Type: DM - Metal drums, barrels  
 Handling Method: R Material recovery of more than 75 percent of the total material.  
 Specific Gravity: 01.00  
 Year: 2002

**K89**  
**NNE**  
 1/8-1/4  
 0.141 mi.  
 744 ft.

**2477 THIRD AVENUE PROPERTY**  
**2477 THIRD AVENUE**  
**BRONX, NY 10454**  
 Site 2 of 7 in cluster K

**NY BROWNFIELDS S109580082**  
**N/A**

**Relative:**  
**Higher**

**BROWNFIELDS:**

Program: BCP  
 Site Code: 410705

**Actual:**  
**17 ft.**

Site Description: LOCATION: The site is located in an urban industrialized section of the south Bronx at the intersection of 3rd Avenue and the Major Deegan Expressway (I-87) between 135th Street and 136th Street. It is located approximately 1000 feet east of the Harlem River. The property consists of Block 2320, Lot 11 of tax map 20902, and is 0.214 acres in size. SITE FEATURES: The is currently vacant with

MAP FINDINGS

**2477 THIRD AVENUE PROPERTY (Continued)**

**S109580082**

remnants of paved areas remaining from a former gasoline station. CURRENT ZONING AND LAND USE(S): The site is zoned commercial but is currently vacant. PAST USE OF THE SITE: The site was a gasoline filling station from the 1950s until approximately 1989. Releases of petroleum products to the environment resulted in the site contamination. SITE GEOLOGY AND HYDROGEOLOGY: The site is approximately 15 feet above mean sea level. The nearest surface water body is the Harlem River, approximately 1000 west of the site. Groundwater was encountered from 7 to 10 feet below ground surface and was found to flow in a south-southwesterly direction towards the Harlem River.

Env Problem: NATURE AND EXTENT OF CONTAMINATION: Based on investigations conducted to date, the primary contaminants of concern in site soils and groundwater are petroleum related compounds. On-site soil samples exceeded Standards, Criteria, and Guidance (SCG) levels for VOCs at one of 14 samples taken in a 2010 investigation. Soil samples were taken from 2.5 to 149 feet below surface. A sample at MW-105 at 9.5 feet below surface included: 1,2,4-trimethylbenzene (up to 480 mg/kg), 1,3,5-trimethylbenzene (up to 110 mg/kg), ethylbenzene (up to 150 mg/kg), naphthalene (up to 17 mg/kg), n-butylbenzene (up to 37 mg/kg), propylbenzene (up to 81 mg/kg), o-xylene (up to 170 mg/kg), p/m-xylene (up to 700 mg/kg), and toluene (up to 12 mg/kg). All of the contaminants at this sample location exceeded the unrestricted use Soil Cleanup Objectives (SCO) and several exceed the commercial SCO. No free product was found. Seven SVOCs were detected in soils at levels exceeding the SCO for unrestricted use. The highest level of soil contamination was found at 9.5 feet below ground surface, however levels met the SCOs near the surface. On-site groundwater standards were exceeded for gasoline related VOCs including: 1,2,4-trimethylbenzene (up to 3,300 ug/L), 1,3,5-trimethylbenzene (up to 820 ug/L), benzene (up to 72 ug/L), ethylbenzene (up to 920 ug/L), toluene (up to 770 ug/L), o-xylene (up to 620 ug/L), m/p-xylene (up to 2,300 ug/L), and MTBE (46 ug/L). These levels of contamination were found in wells in the southern half of the site and wells in the northern part of the site were found to be non-detectable for any contaminants.

Health Problem: Since this site is covered with concrete and asphalt, people will not come into contact with the contamination unless they dig below the surface. People are not drinking the contaminated groundwater since the area is served by a public water supply that is not contaminated by the site. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site construction. In addition, the potential exists for off-site migration of site-related contaminants in soil vapor.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**K90** **BP SS# 17882**  
**NNE** **2477 THIRD AVENUE**  
**1/8-1/4** **BRONX, NY 10451**  
**0.141 mi.**  
**744 ft.** **Site 3 of 7 in cluster K**

**NY UST** **U001833041**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

UST:  
Id/Status: 2-191310 / Unregulated  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: N/A  
UTM X: 590373.46066999994  
UTM Y: 4518190.9991899999  
Site Type: Retail Gasoline Sales

**Actual:**  
**17 ft.**

Affiliation Records:  
Site Id: 5957  
Affiliation Type: On-Site Operator  
Company Name: BP SS# 17882  
Contact Type: Not reported  
Contact Name: BP PRODUCTS NORTH AMERICA  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (410) 551-6074  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/5/2004  
  
Site Id: 5957  
Affiliation Type: Mail Contact  
Company Name: BP PRODUCTS NORTH AMERICA, INC.  
Contact Type: Not reported  
Contact Name: PAULA SKRYJA  
Address1: 7645 FAIRBANKS COURT  
Address2: Not reported  
City: HANOVER  
State: MD  
Zip Code: 21076  
Country Code: 001  
Phone: (410) 551-6074  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 5/13/2005  
  
Site Id: 5957  
Affiliation Type: Emergency Contact  
Company Name: BP PRODUCTS NORTH AMERICA INC  
Contact Type: Not reported  
Contact Name: PAULA SKRYJA  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP SS# 17882 (Continued)**

**U001833041**

Zip Code: Not reported  
Country Code: 999  
Phone: (800) 272-4352  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/5/2004

Site Id: 5957  
Affiliation Type: Facility Owner  
Company Name: BP PRODUCTS NORTH AMERICA INC  
Contact Type: ENVIRONMENTAL COMPLIANCE SPECIALIST  
Contact Name: PAULA SKRYJA  
Address1: 4 CENTERPOINT DRIVE  
Address2: Not reported  
City: LA PALMA  
State: CA  
Zip Code: 90623-1066  
Country Code: 001  
Phone: (410) 551-6074  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 5/5/2005

Tank Info:

Tank Number: 002  
Tank ID: 7469  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 4000  
Install Date: 05/01/1986  
Date Tank Closed: 06/01/2002  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: 03  
Date Test: 11/01/1998  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

G99 - Tank Secondary Containment - Other  
B01 - Tank External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J01 - Dispenser - Pressurized Dispenser  
F03 - Pipe External Protection - Original Impressed Current  
I03 - Overfill - Automatic Shut-Off  
C02 - Pipe Location - Underground/On-ground

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP SS# 17882 (Continued)**

**U001833041**

H99 - Tank Leak Detection - Other  
B03 - Tank External Protection - Original Impressed Current

Tank Number: 003  
Tank ID: 7470  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 4000  
Install Date: 05/01/1986  
Date Tank Closed: 06/01/2002  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: 03  
Date Test: 11/01/1998  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J01 - Dispenser - Pressurized Dispenser  
B01 - Tank External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
F03 - Pipe External Protection - Original Impressed Current  
I03 - Overfill - Automatic Shut-Off  
C02 - Pipe Location - Underground/On-ground  
H99 - Tank Leak Detection - Other  
G99 - Tank Secondary Containment - Other  
B03 - Tank External Protection - Original Impressed Current

Tank Number: 004  
Tank ID: 7471  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 4000  
Install Date: 05/01/1986  
Date Tank Closed: 06/01/2002  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: 03  
Date Test: 11/01/1998  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP SS# 17882 (Continued)**

**U001833041**

Equipment Records:

A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J01 - Dispenser - Pressurized Dispenser  
B01 - Tank External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
F03 - Pipe External Protection - Original Impressed Current  
I03 - Overfill - Automatic Shut-Off  
C02 - Pipe Location - Underground/On-ground  
H99 - Tank Leak Detection - Other  
G99 - Tank Secondary Containment - Other  
B03 - Tank External Protection - Original Impressed Current

Tank Number: 005  
Tank ID: 43607  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 4000  
Install Date: 12/01/1976  
Date Tank Closed: 06/01/2002  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: 03  
Date Test: 11/01/1998  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

G99 - Tank Secondary Containment - Other  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
F08 - Pipe External Protection - Retrofitted Impressed Current  
J01 - Dispenser - Pressurized Dispenser  
B07 - Tank External Protection - Retrofitted Sacrificial Anode  
I03 - Overfill - Automatic Shut-Off  
B01 - Tank External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
H99 - Tank Leak Detection - Other  
C02 - Pipe Location - Underground/On-ground

Tank Number: 1  
Tank ID: 63855  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 12000  
Install Date: Not reported  
Date Tank Closed: 09/01/2003  
Registered: True  
Tank Location: Underground

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP SS# 17882 (Continued)**

**U001833041**

Tank Type: Equivalent technology  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 11/05/2004

Equipment Records:

D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
A03 - Tank Internal Protection - Fiberglass Liner (FRP)  
F04 - Pipe External Protection - Fiberglass  
I04 - Overfill - Product Level Gauge (A/G)  
J01 - Dispenser - Pressurized Dispenser  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Number: 2  
Tank ID: 63856  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 12000  
Install Date: Not reported  
Date Tank Closed: 09/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Equivalent technology  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 11/05/2004

Equipment Records:

D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
A03 - Tank Internal Protection - Fiberglass Liner (FRP)  
F04 - Pipe External Protection - Fiberglass  
I04 - Overfill - Product Level Gauge (A/G)  
J01 - Dispenser - Pressurized Dispenser  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP SS# 17882 (Continued)**

**U001833041**

Tank Number: 3  
Tank ID: 63857  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 12000  
Install Date: Not reported  
Date Tank Closed: 09/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Equivalent technology  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 11/05/2004

Equipment Records:

D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
A03 - Tank Internal Protection - Fiberglass Liner (FRP)  
F04 - Pipe External Protection - Fiberglass  
I04 - Overfill - Product Level Gauge (A/G)  
J01 - Dispenser - Pressurized Dispenser  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm

SPILLS:

Facility ID: 0230034  
Facility Type: ER  
DER Facility ID: 156730  
Site ID: 187579  
DEC Region: 2  
Spill Date: 1/31/2002  
Spill Number/Closed Date: 0230034 / Not Reported  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: RXKEATIN  
Referred To: ACCEPTED TO BCP, OFFSITE MONITORING  
Reported to Dept: 1/31/2002  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP SS# 17882 (Continued)**

**U001833041**

Remediation Phase: 1  
Date Entered In Computer: 9/27/2002  
Spill Record Last Update: 4/29/2013  
Spiller Name: ROBERTO  
Spiller Company: GASETERIA  
Spiller Address: 364 MASPETH AVENUE  
Spiller City,St,Zip: BROOKLYN, NY -  
001  
Contact Name: ROBERTO  
Contact Phone: (718) 782-4200  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "VOUGHT" See also spill # 9306863 which has been closed as duplicate. JK.2/6/06 - Obligado - Review baseline assessment report, submitted by Delta, 10/2/02. Site was an active Gaseteria at time of assessment with 3 4000 gallon gasoline USTs and 1 1000 gallon Diesel UST. Nearest surface body is Harlem river, 1200 ft southwest. 2 schools located 1000 ft east/southeast. Ground water located at 8.6 to 9.3 ft bgs and likely flows southwesterly. Soil is sand down to 15 ft bgs. Soil results only showed MTBE impacts at the 6-8 ft interval. Ground water showed 16,860 BTEX in MW2, 443 BTEX in MW1. Soil is sand down to 15 ft bgs. 6/9/06 - Obligado - Drilling pushed to 3Q06.7/19/06 - Obligado - Meeting with ASR, Gaseteria, DEC. This site will require delineation and possibly remediation. Will be included on the corrective action schedule. 9/12/06 - Emailed Gaseteria Multi site stipulation agreement on 9/8/06. Sent original on 9/12/06. Due date for investigation workplan is 4/1/07. 6/1/07 - Obligado - Phone conversation with Muller. Pushed workplan due date to 8/1/07. 9/25/07 - Obligado - Spoke to Steve Muller. He said the workplan is complete and he will submit it today. 9/26/07 - Obligado - Received the investigation work plan. 10/26/07 - Obligado - Review investigation workplan. The workplan proposes the installation of 4, 2" monitoring wells. Water anticipated at 8.5 - 9 ft bgs. Soil and ground water samples for 8260/8270 will be collected. All wells will be surveyed. An Investigation Summary Report will be submitted within 60 days. 1/28/08 - Obligado - I reviewed the ISR, dated 12/24/07. 4 borings/monitoring wells were installed at the site. GW impacts were found at 3 of 4 wells. Soil impacts found at 2 of 4 locations. Max soil and ground water impacts found at MW1, with 191,000 ug/m3 BTEX in soil and 7500 BTEX in Ground water. Additional delineation is required. Several data gaps on site and delineation need off-site. Sent email to steve muller require workplan for additional investigation both on and off-site. Also requested information about tanks and soil endpoint sampling as I could not find any UST Closure report. Steve in the email coverletter requested postponement of off-site delienation due to difficulty installing off-site wells downgradient due to Major Deegan and necessity for a sensitive receptor survey. I emailed Steve that Delta already did a receptor survey (above) and they should insall wells across the Deegan if necessary. 4/23/08 - Obligado - Site Meeting with Steve Muller to scope out new well locations. We discovered there were many preexisting montitoring wells at the site. Also the USTs were still in place, contrary to PBS registration, which lists the USTs as closed/removed. 4/25/08 - Obligado - Based on the above I sent an email to STEve Muller, with CC to Gaseteria requiring submission of new workplan within 30 days which includes the following: 1) An updated site plan showing all existing and newly installed monitoring wells, and any pre-existing remedial systems. 2) An updated ground

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

BP SS# 17882 (Continued)

U001833041

water contour map based on liquid level gauging data from all new and existing monitoring wells. 3) An updated ground water plume map based on analytical results from ground water samples collected from all new and existing monitoring wells. Prior to sampling all monitoring wells should be properly developed. The inside of all manhole covers should be cleaned of debris. 4) A new Proposed Monitoring Well Location Map based on all the newly acquired data. 5) Updated UST information. What is the status of these tanks? Are they empty, full, or abandoned in place? The PBS registration for the site must also be updated to reflect true site conditions. 5/28/08 - Obligado - Reviewed a revised workplan with updated plume map. 4 historic wells that contained water were added to the site plan and gauged. They were not sampled because there was not enough water in the well. The plan proposes 4 additional wells, 2 onsite and 2 off-site. The plan also proposes to investigate the tanks and update PBS registration. I sent an email approval to Steve Muller and Gaseteria. 8/20/08 - Obligado - Meeting with ASR, Gaseteria, DEC. Site delineation is ongoing. Gw Sampling scheduled for August 25, 2008. RIR due by end of September 2008. 10/8/08 - Obligado - Review RIR. Extremely high soil concentrations in downgradient well locations. MW7 (farthest off-site across street below Deegan Overpass) had over 3,000,000 ug/u3 total VOCs and 1000 ug/L total VOCs. Sent email to Steve requiring additional delineation and request site meeting to look at potential locations. Site meeting 10/16/08 10/16/08 - Obligado - On-site meeting with Steve Muller. Potential developers were there as well. We looked at some potential boring locations. A Potential developer was on-site as well. 10/20/08 - Obligado - Reviewed IWP. Proposes 4 to 6 additional boring locations. I approved the plan. Emailed approval letter to Steve. Report due in 60 days. 12/30/08 - Obligado - RIR submitted by Steve Muller for Gaseteria. 5/10/09 - Obligado - After review of the report, sent disapproval letter to Gaseteria. Required revisions to the tables and figures, addition of soil boring logs and analytical results. 6/10/09 - Obligado - RIR re-submitted by Tomasello. 10/5/09 - Obligado - Completed review of RIR. 4 additional wells were installed. 2 met with refusal under the Major Deegan overpass probably due to footing structures. The ground water plume has been adequately delineated based on the site constraints. I sent an approval letter for the RIR. 10/13/09 - Obligado - Meeting with Gaseteria, DEC, Reliant Consulting, and JCBroderick. This site was recently sold and the new owners were accepted into the Brownfield Cleanup Program (BCP). The new owners did not yet sign the BCP agreement. DEC Legal is sending them a "sign or get rejected from the program" letter. AKRF are the new owner's consultants. DEC approved the Final RIR. DEC is requiring that GOC continue the MM & QS of the off-site wells. 4/29/2013 - Project manager changed to Keating in Central Office.

Remarks:

Contaminated soil and groundwater found. Data reported to DEC by Delta despite knowledge of Gaseteria since 8/5/2002.

Material:

Site ID: 187579  
Operable Unit ID: 864448  
Operable Unit: 01  
Material ID: 509675  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP SS# 17882 (Continued)**

**U001833041**

Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**L91  
East  
1/8-1/4  
0.142 mi.  
751 ft.**

**CON EDISON  
E 134TH ST & ALEXANDER AVE  
BRONX, NY 10452**

**RCRA-CESQG 1012185346  
NYP004161501**

**Site 4 of 7 in cluster L**

**Relative:  
Higher**

RCRA-CESQG:

Date form received by agency: 09/25/2008

Facility name: CON EDISON

Facility address: E 134TH ST & ALEXANDER AVE  
BRONX, NY 10452

EPA ID: NYP004161501

Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003

Contact: HERMAN BAKER

Contact address: Not reported  
Not reported

Contact country: Not reported

Contact telephone: (718) 267-3853

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

1012185346

User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

L92  
East  
1/8-1/4  
0.142 mi.  
751 ft.

**CONSOLIDATED EDISON  
ALEXANDER AVE & E 134TH ST  
BRONX, NY**

**NY MANIFEST S109321240  
N/A**

Site 5 of 7 in cluster L

Relative:  
Higher

NY MANIFEST:  
EPA ID: NYP004161501  
Country: USA  
Mailing Name: CONSOLIDATED EDISON  
Mailing Contact: FRANKLYN MURRAY  
Mailing Address: 4 IRVING PL RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

Actual:  
18 ft.

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2008-09-26  
Trans1 Recv Date: 2008-09-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2008-09-27  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004161485  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 2068.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 001029262JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S109321240**

Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 2008-09-25  
Trans1 Recv Date: 2008-09-25  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2008-09-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004161501  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD077444263  
Waste Code: Not reported  
Quantity: 100.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 001432689FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: NJD003812047  
Generator Ship Date: 2008-09-26  
Trans1 Recv Date: 2008-09-26  
Trans2 Recv Date: 2008-09-30  
TSD Site Recv Date: 2008-10-01  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004161485  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S109321240**

Quantity: 1540.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 7.0  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 000416828GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 2008-09-25  
Trans1 Recv Date: 2008-09-25  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2008-09-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004161485  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD077444263  
Waste Code: Not reported  
Quantity: 600.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 6.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 001432693FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S109321240**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	2008-09-25
Trans1 Recv Date:	2008-09-25
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-09-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004161501
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSD ID:	NYD077444263
Waste Code:	Not reported
Quantity:	100.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001432689FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2008-09-26
Trans1 Recv Date:	2008-09-26
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-09-27
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004161485
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSD ID:	NJD002200046
Waste Code:	Not reported
Quantity:	2068.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S109321240**

Year: 2008  
Manifest Tracking Num: 001029262JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: NJD003812047  
Generator Ship Date: 2008-09-26  
Trans1 Recv Date: 2008-09-26  
Trans2 Recv Date: 2008-09-30  
TSD Site Recv Date: 2008-10-01  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004161485  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD049836679  
Waste Code: Not reported  
Quantity: 1540.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 7.0  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 1.0

Year: 2008  
Manifest Tracking Num: 000416828GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H132

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 2008-09-25  
Trans1 Recv Date: 2008-09-25

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CONSOLIDATED EDISON (Continued)

S109321240

Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2008-09-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004161485  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD077444263  
Waste Code: Not reported  
Quantity: 600.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 6.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 001432693FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

L93  
ESE  
1/8-1/4  
0.143 mi.  
756 ft.

MILL WIPING RAGS CORPORATION  
40 BRUCKNER BLVD  
BRONX, NY 10454  
Site 6 of 7 in cluster L

NY AST U003386685  
NY HIST AST N/A

Relative:  
Higher

AST:  
Region: STATE  
DEC Region: 2  
Site Status: Unregulated  
Facility Id: 2-416053  
Program Type: PBS  
UTM X: 590506.48939  
UTM Y: 4517857.0414800001  
Expiration Date: N/A  
Site Type: Manufacturing (Other than Chemical)/Processing

Actual:  
17 ft.

Affiliation Records:  
Site Id: 19718  
Affiliation Type: Facility Owner  
Company Name: D. BENEDETTO  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 280 MADISON AVENUE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10017  
Country Code: 001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILL WIPING RAGS CORPORATION (Continued)**

**U003386685**

Phone: (212) 532-9191  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 19718  
Affiliation Type: Mail Contact  
Company Name: D. BENEDETTO  
Contact Type: Not reported  
Contact Name: SAL BENEDETTO  
Address1: 280 MADISON AVENUE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10017  
Country Code: 001  
Phone: (212) 532-9191  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 19718  
Affiliation Type: On-Site Operator  
Company Name: MILL WIPING RAGS CORPORATION  
Contact Type: Not reported  
Contact Name: D. BENEDETTO  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 532-9191  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 19718  
Affiliation Type: Emergency Contact  
Company Name: D. BENEDETTO  
Contact Type: Not reported  
Contact Name: D. BENEDETTO  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 532-9191  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILL WIPING RAGS CORPORATION (Continued)**

**U003386685**

Tank Info:

Tank Number: 001  
Tank Id: 10449  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
G03 - Tank Secondary Containment - Vault (w/o access)  
H00 - Tank Leak Detection - None  
B00 - Tank External Protection - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - In Place  
Pipe Model: Not reported  
Install Date: Not reported  
Capacity Gallons: 5000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: TRANSLAT  
Last Modified: 03/04/2004  
Material Name: #2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number: 2-416053  
SWIS Code: 6001  
Operator: D. BENEDETTO  
Facility Phone: (212) 532-9191  
Facility Addr2: 40 BRUCKNER BLVD  
Facility Type: MANUFACTURING  
Emergency: D. BENEDETTO  
Emergency Tel: (212) 532-9191  
Old PBSNO: Not reported  
Date Inspected: Not reported  
Inspector: Not reported  
Result of Inspection: Not reported  
Owner Name: D. BENEDETTO  
Owner Address: 280 MADISON AVENUE  
Owner City,St,Zip: NEW YORK, NY 10017  
Federal ID: Not reported  
Owner Tel: (212) 532-9191  
Owner Type: Corporate/Commercial  
Owner Subtype: Not reported  
Mailing Contact: SAL BENEDETTO  
Mailing Name: D. BENEDETTO  
Mailing Address: 280 MADISON AVENUE  
Mailing Address 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILL WIPING RAGS CORPORATION (Continued)**

**U003386685**

Mailing City,St,Zip: NEW YORK, NY 10017  
Mailing Telephone: (212) 532-9191  
Owner Mark: Third Owner  
Facility Status: 2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.  
Certification Flag: False  
Certification Date: Not reported  
Expiration: 08/24/2004  
Renew Flag: False  
Renew Date: Not reported  
Total Capacity: 0  
FAMT: True  
Facility Screen: No Missing Data  
Owner Screen: Minor Data Missing  
Tank Screen: 0  
Dead Letter: False  
CBS Number: Not reported  
Town or City: NEW YORK CITY  
County Code: 60  
Town or City Code: 01  
Region: 2  
  
Tank ID: 001  
Tank Location: ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (Gal): 5000  
Product Stored: NOS 1,2, OR 4 FUEL OIL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Tank Containment: Diking  
Leak Detection: 0  
Overfill Protection: 4  
Dispenser Method: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: Not reported  
Test Method: Not reported  
Deleted: False  
Updated: True  
SPDES Number: Not reported  
Lat/Long: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

L94  
East  
1/8-1/4  
0.148 mi.  
779 ft.

333 ALEXANDER AVE  
333 ALEXANDER AVE  
BRONX, NY 10451  
Site 7 of 7 in cluster L

NY AST A100355656  
N/A

Relative:  
Higher

AST:

Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-237116  
Program Type: PBS  
UTM X: 590803.43266000005  
UTM Y: 4518480.5666899998  
Expiration Date: 2016/03/06  
Site Type: Apartment Building/Office Building

Actual:  
18 ft.

Affiliation Records:

Site Id: 8820  
Affiliation Type: Facility Owner  
Company Name: PRIEREN REALTY CORP.  
Contact Type: AGENT  
Contact Name: MIKE BAJRAKTARI  
Address1: 617 EAST 188TH STREET  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10458  
Country Code: 001  
Phone: (718) 365-4310  
EMail: Not reported  
Fax Number: Not reported  
Modified By: KXTANG  
Date Last Modified: 3/20/2006

Site Id: 8820  
Affiliation Type: Mail Contact  
Company Name: PRIEREN REALTY CORP.  
Contact Type: AGENT  
Contact Name: MIKE BAJRAKTARI  
Address1: 617 EAST 188TH STREET  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10458  
Country Code: 001  
Phone: (718) 365-4310  
EMail: Not reported  
Fax Number: Not reported  
Modified By: KXTANG  
Date Last Modified: 3/20/2006

Site Id: 8820  
Affiliation Type: On-Site Operator  
Company Name: 333 ALEXANDER AVE  
Contact Type: Not reported  
Contact Name: PETER GONZALES  
Address1: Not reported  
Address2: Not reported  
City: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**333 ALEXANDER AVE (Continued)**

**A100355656**

State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (646) 718-3654310  
EMail: Not reported  
Fax Number: Not reported  
Modified By: BVCAMPBE  
Date Last Modified: 3/4/2011

Site Id: 8820  
Affiliation Type: Emergency Contact  
Company Name: PRIEREN REALTY CORP.  
Contact Type: Not reported  
Contact Name: MIKE BAJRAKTARI  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 365-4310  
EMail: Not reported  
Fax Number: Not reported  
Modified By: KXTANG  
Date Last Modified: 3/20/2006

Tank Info:

Tank Number: 001  
Tank Id: 17247  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

K00 - Spill Prevention - None  
A99 - Tank Internal Protection - Other  
C03 - Pipe Location - Aboveground/Underground Combination  
E00 - Piping Secondary Containment - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
B01 - Tank External Protection - Painted/Asphalt Coating  
I04 - Overfill - Product Level Gauge (A/G)  
B02 - Tank External Protection - Original Sacrificial Anode  
F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None  
I05 - Overfill - Vent Whistle  
F02 - Pipe External Protection - Original Sacrificial Anode  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L02 - Piping Leak Detection - Interstitial - Manual Monitoring

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1950  
Capacity Gallons: 1500  
Tightness Test Method: NN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**333 ALEXANDER AVE (Continued)**

**A100355656**

Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 03/04/2011  
Material Name: #2 Fuel Oil (On-Site Consumption)

**N95**  
**NNE**  
**1/8-1/4**  
**0.150 mi.**  
**790 ft.**

**CON EDISON**  
**E 135 ST AND RIDER AVE**  
**BRONX, NY 10462**

**NY MANIFEST** **S113494626**  
**N/A**

**Site 1 of 3 in cluster N**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYP004278859  
Country: USA

**Actual:**  
**11 ft.**

Mailing Name: CON EDISON  
Mailing Contact: CON EDISON  
Mailing Address: 4 IRVING PL 15TH FL  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

NY MANIFEST:  
No Manifest Records Available

**N96**  
**North**  
**1/8-1/4**  
**0.150 mi.**  
**793 ft.**

**CON EDISON MANHOLE: 6224**  
**E 135TH ST & RIDER AVE**  
**BRONX, NY 10462**

**RCRA-CESQG** **1016149222**  
**NYP004278859**

**Site 2 of 3 in cluster N**

**Relative:**  
**Higher**

RCRA-CESQG:  
Date form received by agency: 11/24/2012  
Facility name: CON EDISON MANHOLE: 6224  
Facility address: E 135TH ST & RIDER AVE  
BRONX, NY 10462

**Actual:**  
**11 ft.**

EPA ID: NYP004278859  
Mailing address: IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: DONALD SENNO  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (914) 925-6219  
Contact email: Not reported  
EPA Region: 02  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON MANHOLE: 6224 (Continued)**

**1016149222**

month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

**N97**  
**North**  
**1/8-1/4**  
**0.150 mi.**  
**793 ft.**

**CON EDISON**  
**E 135TH ST & RIDER AVE**  
**BRONX, NY 10451**  
**Site 3 of 3 in cluster N**

**NY MANIFEST S112817847**  
**N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
 EPA ID: NYP004278359  
 Country: USA  
 Mailing Name: CON EDISON  
 Mailing Contact: TOM TEELING  
 Mailing Address: 4 IRVING PLACE - 15TH FLOOR  
 Mailing Address 2: Not reported  
 Mailing City: NEW YORK  
 Mailing State: NY  
 Mailing Zip: 10003  
 Mailing Zip4: Not reported  
 Mailing Country: USA  
 Mailing Phone: 212-460-3770

**Actual:**  
**11 ft.**

Document ID: Not reported  
 Manifest Status: Not reported  
 Trans1 State ID: MAD039322250  
 Trans2 State ID: MAD039322250  
 Generator Ship Date: 2012-11-24  
 Trans1 Recv Date: 2012-11-24

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S112817847**

Trans2 Recv Date: 2012-11-27  
TSD Site Recv Date: 2012-11-27  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004278359  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291105  
Waste Code: Not reported  
Quantity: 4.0  
Units: Y - Cubic yards\* (.85 tons)  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 004817017FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

**K98**  
**NNE**  
**1/8-1/4**  
**0.156 mi.**  
**824 ft.**

**CON EDISON TRANSFORMER VAULT 737**  
**E 136TH ST & 3RD AVE**  
**BRONX, NY 10452**  
**Site 4 of 7 in cluster K**

**RCRA NonGen / NLR** **1014918118**  
**NYP004217018**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

Date form received by agency: 11/02/2010

Facility name: CON EDISON TRANSFORMER VAULT 737

Facility address: E 136TH ST & 3RD AVE  
BRONX, NY 10452

EPA ID: NYP004217018  
Mailing address: IRVING PL RM 828  
NEW YORK, NY 10003

Contact: DENNIS ROHRER

Contact address: Not reported  
Not reported

Contact country: Not reported  
Contact telephone: (914) 925-6219

Contact email: Not reported

EPA Region: 02

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON TRANSFORMER VAULT 737 (Continued)**

**1014918118**

Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 10/03/2010  
Facility name: CON EDISON TRANSFORMER VAULT 737  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

**K99**  
**NNE**  
**1/8-1/4**  
**0.157 mi.**  
**828 ft.**

**UNITED PARCEL SERVICE**  
**247 EAST 136TH STREET**  
**BRONX, NY 10454**  
**Site 5 of 7 in cluster K**

**NY AST A100320303**  
**N/A**

**Relative:**  
**Higher**

AST:

Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-610802  
Program Type: PBS  
UTM X: 590781.20048999996  
UTM Y: 4517980.9387299996  
Expiration Date: 2018/03/28  
Site Type: Trucking/Transportation/Fleet Operation

**Actual:**  
**16 ft.**

Affiliation Records:

Site Id: 395549  
Affiliation Type: Mail Contact  
Company Name: UNITED PARCEL SERVICE  
Contact Type: Not reported  
Contact Name: CEVIN FELIX  
Address1: 643 WEST 43RD STREET  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10036  
Country Code: 001  
Phone: (212) 631-6444  
EMail: CFELIX@UPS.COM  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 8/27/2013

Site Id: 395549  
Affiliation Type: On-Site Operator  
Company Name: UNITED PARCEL SERVICE  
Contact Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**A100320303**

Contact Name: LEO EWERS  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 631-6444  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 8/27/2013

Site Id: 395549  
Affiliation Type: Emergency Contact  
Company Name: UNITED PARCEL SERVICE  
Contact Type: Not reported  
Contact Name: DOMINICK C  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (917) 280-6492  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/29/2013

Site Id: 395549  
Affiliation Type: Facility Owner  
Company Name: UNITED PARCEL SERVICE  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 643 W 43RD STREET  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10036  
Country Code: 001  
Phone: (212) 631-6444  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 8/27/2013

Tank Info:

Tank Number: 001  
Tank Id: 222235  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

D00 - Pipe Type - No Piping

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**A100320303**

G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
K01 - Spill Prevention - Catch Basin  
L00 - Piping Leak Detection - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 08/27/2007  
Capacity Gallons: 250  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 08/14/2013  
Material Name: Waste Oil/Used Oil

Tank Number: 002  
Tank Id: 222236  
Material Code: 0015  
Common Name of Substance: Motor Oil

Equipment Records:

G00 - Tank Secondary Containment - None  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 08/27/2007  
Capacity Gallons: 250  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**A100320303**

Last Modified: 08/14/2013  
Material Name: Motor Oil

**K100**  
**NNE**  
**1/8-1/4**  
**0.159 mi.**  
**837 ft.**

**247 EAST 136TH ST CORP.**  
**247 EAST 136TH STREET**  
**BRONX, NY 10473**

**NY UST** **U004079029**  
**N/A**

**Site 6 of 7 in cluster K**

**Relative:**  
**Higher**

UST:

**Actual:**  
**16 ft.**

Id/Status: 2-610438 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2011/12/27  
UTM X: 590329.74468  
UTM Y: 4518223.6059900001  
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id: 375396  
Affiliation Type: Facility Owner  
Company Name: 247 EAST 136TH ST CORP  
Contact Type: PRESIDENT  
Contact Name: PETER O'FARRELL  
Address1: 1470 BRUCKNER BLVD  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10473  
Country Code: 001  
Phone: (718) 589-4900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/20/2008

Site Id: 375396  
Affiliation Type: Mail Contact  
Company Name: 247 EAST 136TH ST CORP  
Contact Type: PRESIDENT  
Contact Name: PETER O'FARRELL  
Address1: 1470 BRUCKNER BLVD  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10473  
Country Code: 001  
Phone: (718) 589-4900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/20/2008

Site Id: 375396  
Affiliation Type: On-Site Operator  
Company Name: 247 EAST 136TH ST CORP.  
Contact Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**247 EAST 136TH ST CORP. (Continued)**

**U004079029**

Contact Name: PETER O'FARRELL  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NY  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 589-4900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/20/2008

Site Id: 375396  
Affiliation Type: Emergency Contact  
Company Name: 247 EAST 136TH ST CORP  
Contact Type: Not reported  
Contact Name: PETER O'FARRELL  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 589-4900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/20/2008

**Tank Info:**

Tank Number: 001  
Tank ID: 215179  
Tank Status: Temporarily Out of Service  
Material Name: Temporarily Out of Service  
Capacity Gallons: 550  
Install Date: 01/01/1985  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 01/29/2007

**Equipment Records:**

C02 - Pipe Location - Underground/On-ground  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

247 EAST 136TH ST CORP. (Continued)

U004079029

I00 - Overfill - None  
G00 - Tank Secondary Containment - None  
F00 - Pipe External Protection - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser

Tank Number: 002  
Tank ID: 215180  
Tank Status: Temporarily Out of Service  
Material Name: Temporarily Out of Service  
Capacity Gallons: 550  
Install Date: 01/01/1985  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 01/29/2007

Equipment Records:

F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground  
I00 - Overfill - None  
G00 - Tank Secondary Containment - None  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

Tank Number: 003  
Tank ID: 215181  
Tank Status: Temporarily Out of Service  
Material Name: Temporarily Out of Service  
Capacity Gallons: 550  
Install Date: 01/01/1985  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**247 EAST 136TH ST CORP. (Continued)**

**U004079029**

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 01/29/2007

Equipment Records:

E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
G00 - Tank Secondary Containment - None  
C02 - Pipe Location - Underground/On-ground  
I00 - Overfill - None  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

Tank Number: 004  
Tank ID: 215182  
Tank Status: Temporarily Out of Service  
Material Name: Temporarily Out of Service  
Capacity Gallons: 550  
Install Date: 01/01/1985  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 01/29/2007

Equipment Records:

F00 - Pipe External Protection - None  
L00 - Piping Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

Tank Number: 005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**247 EAST 136TH ST CORP. (Continued)**

**U004079029**

Tank ID: 215183  
Tank Status: Temporarily Out of Service  
Material Name: Temporarily Out of Service  
Capacity Gallons: 1000  
Install Date: 01/01/1985  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: NRLOMBAR  
Last Modified: 01/29/2007

Equipment Records:

E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
G00 - Tank Secondary Containment - None  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

**K101**  
**NNE**  
**1/8-1/4**  
**0.159 mi.**  
**837 ft.**

**UNITED PARCEL SERVICE INC**  
**247 E 136TH ST**  
**BRONX, NY 10451**  
**Site 7 of 7 in cluster K**

**RCRA-SQG 1014919522**  
**NYR000183103**

**Relative:**  
**Higher**

RCRA-SQG:

Date form received by agency: 07/06/2011  
Facility name: UNITED PARCEL SERVICE INC

**Actual:**  
**16 ft.**

Facility address: 247 E 136TH ST  
BRONX, NY 10451

EPA ID: NYR000183103  
Mailing address: W 43RD ST  
NEW YORK, NY 10036

Contact: MARIO ROMERO JR  
Contact address: W 43RD ST  
NEW YORK, NY 10036

Contact country: US  
Contact telephone: (212) 631-6245  
Contact email: MARIOROMERO@UPS.COM

EPA Region: 02  
Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE INC (Continued)**

**1014919522**

waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: UNITED PARCEL SERVICES INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 08/01/2007  
Owner/Op end date: Not reported

Owner/operator name: PETER OFARRELL  
Owner/operator address: CHATEAU RIDGE RD  
GREENWICH, CT 06831  
Owner/operator country: US  
Owner/operator telephone: (203) 629-1157  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/02/1985  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018  
Waste name: BENZENE

Violation Status: No violations found

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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<b>O102</b> <b>West</b> <b>1/8-1/4</b> <b>0.162 mi.</b> <b>855 ft.</b>	<b>CON EDISON MANHOLE: 39273</b> <b>E 131ST &amp; LEXINGTON AVE</b> <b>NEW YORK, NY 10037</b>  <b>Site 1 of 3 in cluster O</b>	<b>RCRA-CESQG</b>	<b>1016149997</b> <b>NYP004286662</b>
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**Relative:**  
**Higher**

RCRA-CESQG:

Date form received by agency: 01/31/2013

Facility name: CON EDISON MANHOLE: 39273

Facility address: E 131ST & LEXINGTON AVE

OPPOSITE

NEW YORK, NY 10037

EPA ID: NYP004286662

Mailing address: IRVING PL, RM 828

NEW YORK, NY 10003

Contact: JUAN RODRIGUEZ

Contact address: Not reported

Not reported

Contact country: Not reported

Contact telephone: (347) 865-5931

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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<b>103</b> <b>North</b> <b>1/8-1/4</b> <b>0.166 mi.</b> <b>879 ft.</b>	<b>188 E 135TH ST</b> <b>BRONX, NY 10451</b>	<b>EDR US Hist Cleaners</b>	<b>1015008748</b> <b>N/A</b>
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<b>Relative:</b> <b>Higher</b>	<b>EDR Historical Cleaners:</b>	
<b>Actual:</b> <b>10 ft.</b>	Name: EMERALD DRY CLEANING Year: 2000 Address: 188 E 135TH ST	
	Name: EMERALD DRY CLEANING Year: 2001 Address: 188 E 135TH ST	
	Name: EMERALD DRY CLEANING Year: 2002 Address: 188 E 135TH ST	
	Name: EMERALD DRY CLEANING Year: 2003 Address: 188 E 135TH ST	

<b>P104</b> <b>SSW</b> <b>1/8-1/4</b> <b>0.168 mi.</b> <b>889 ft.</b>	<b>CONSOLIDATED EDISON</b> <b>238 E 128TH ST</b> <b>NEW YORK, NY</b> <b>Site 1 of 12 in cluster P</b>	<b>NY MANIFEST</b>	<b>S109825406</b> <b>N/A</b>
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<b>Relative:</b> <b>Higher</b>	<b>NY MANIFEST:</b>	
<b>Actual:</b> <b>10 ft.</b>	EPA ID: NYP004171336 Country: USA Mailing Name: CONSOLIDATED EDISON Mailing Contact: CONSOLIDATED EDISON Mailing Address: 4 IRVING PL RM 828 Mailing Address 2: Not reported Mailing City: NEW YORK Mailing State: NY Mailing Zip: 10003 Mailing Zip4: Not reported Mailing Country: USA Mailing Phone: 212-460-2808	
	Document ID: Not reported Manifest Status: Not reported Trans1 State ID: NJ0000027193 Trans2 State ID: Not reported Generator Ship Date: 2009-06-11 Trans1 Recv Date: 2009-06-11 Trans2 Recv Date: Not reported TSD Site Recv Date: 2009-06-13 Part A Recv Date: Not reported Part B Recv Date: Not reported Generator EPA ID: NYP004171336 Trans1 EPA ID: Not reported Trans2 EPA ID: Not reported TSDF ID: NJD002200046 Waste Code: Not reported Quantity: 1000.0	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S109825406**

Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 003532337JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-06-11  
Trans1 Recv Date: 2009-06-11  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-06-13  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004171336  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1000.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 003532337JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON (Continued)**

**S109825406**

Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-06-11  
Trans1 Recv Date: 2009-06-11  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-06-13  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004171336  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1000.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 003532337JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

**P105** **CON EDISON SERVICE BOX 55142**  
**SSW** **E 128TH ST & 2ND AVE NE COR**  
**1/8-1/4** **NEW YORK, NY 10035**  
**0.170 mi.**  
**897 ft.** **Site 2 of 12 in cluster P**

**RCRA NonGen / NLR** **1014919276**  
**NYP004234373**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**9 ft.**

Date form received by agency: 05/24/2011  
Facility name: CON EDISON SERVICE BOX 55142  
Facility address: E 128TH ST & 2ND AVE NE COR  
NEW YORK, NY 10035  
EPA ID: NYP004234373  
Mailing address: IRVING PLAZA RM 828  
NEW YORK, NY 10003  
Contact: JOSE MONTALVO  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (212) 427-1331  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON SERVICE BOX 55142 (Continued)**

**1014919276**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 04/24/2011  
Facility name: CON EDISON SERVICE BOX 55142  
Classification: Conditionally Exempt Small Quantity Generator  
  
Violation Status: No violations found

**Q106  
NE  
1/8-1/4  
0.170 mi.  
899 ft.**

**2491 3RD AVE  
BRONX, NY 10451**

**EDR US Hist Auto Stat 1015361377  
N/A**

**Site 1 of 8 in cluster Q**

**Relative:  
Higher**

EDR Historical Auto Stations:

**Actual:  
17 ft.**

Name: MOTOR TREND FOREIGN CAR  
Year: 1999  
Address: 2491 3RD AVE  
  
Name: MOTOR TREND FOREIGN CAR  
Year: 2000  
Address: 2491 3RD AVE  
  
Name: MOTOR TREND FOREIGN CAR  
Year: 2001  
Address: 2491 3RD AVE  
  
Name: MOTOR TREND FOREIGN CAR SPCLST INC  
Year: 2002  
Address: 2491 3RD AVE  
  
Name: BAH GENERAL AUTO REPAIR  
Year: 2010  
Address: 2491 3RD AVE  
  
Name: BAH GENERAL AUTO REPAIRING  
Year: 2011  
Address: 2491 3RD AVE  
  
Name: BAH GENERAL AUTO REPAIRING  
Year: 2012  
Address: 2491 3RD AVE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**P107**      **CON EDISON**  
**SSW**      **232 E 128 ST**  
**1/8-1/4**    **NEW YORK, NY 10029**  
**0.172 mi.**  
**909 ft.**    **Site 3 of 12 in cluster P**

**NY MANIFEST**    **S113495822**  
                                 **N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID:                    NYP004295416  
Country:                 USA  
Mailing Name:            CON EDISON  
Mailing Contact:        TOM TEELING  
Mailing Address:        4 IRVING PLACE 15TH FLOOR  
Mailing Address 2:      Not reported  
Mailing City:            NEW YORK  
Mailing State:           NY  
Mailing Zip:             10003  
Mailing Zip4:            Not reported  
Mailing Country:        USA  
Mailing Phone:          212-460-3770

**Actual:**  
**10 ft.**

Document ID:            Not reported  
Manifest Status:        Not reported  
Trans1 State ID:        NJ0000027193  
Trans2 State ID:        Not reported  
Generator Ship Date:    22-Mar-2013 00:00:00  
Trans1 Recv Date:       22-Mar-2013 00:00:00  
Trans2 Recv Date:       Not reported  
TSD Site Recv Date:    27-Mar-2013 00:00:00  
Part A Recv Date:       Not reported  
Part B Recv Date:       Not reported  
Generator EPA ID:       NYP004295416  
Trans1 EPA ID:           Not reported  
Trans2 EPA ID:           Not reported  
TSD ID:                  NJD002200046  
Waste Code:             Not reported  
Quantity:                500  
Units:                    P - Pounds  
Number of Containers:   1  
Container Type:          TT - Cargo tank, tank trucks  
Handling Method:        T Chemical, physical, or biological treatment.  
Specific Gravity:        1  
Year:                     2013  
Manifest Tracking Num:   010841431JJK  
Import Ind:               N  
Export Ind:               N  
Discr Quantity Ind:      N  
Discr Type Ind:          N  
Discr Residue Ind:       N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind:   N  
Manifest Ref Num:       Not reported  
Alt Fac RCRA Id:        Not reported  
Alt Fac Sign Date:       Not reported  
Mgmt Method Type Code: H110

Document ID:            Not reported  
Manifest Status:        Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495822**

Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295416  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841431JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

**P108**  
**SSW**  
**1/8-1/4**  
**0.172 mi.**  
**909 ft.**

**CON EDISON SERVICE BOX: 21084**  
**232 E 128TH ST**  
**NEW YORK, NY 10029**  
**Site 4 of 12 in cluster P**

**RCRA NonGen / NLR 1016450516**  
**NYP004295416**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**10 ft.**

Date form received by agency: 04/22/2013  
Facility name: CON EDISON SERVICE BOX: 21084  
Facility address: 232 E 128TH ST  
NEW YORK, NY 10029  
EPA ID: NYP004295416  
Contact: JUAN RODRIGUEZ  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (347) 865-5931  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON SERVICE BOX: 21084 (Continued)**

**1016450516**

Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/22/2013  
Facility name: CON EDISON SERVICE BOX: 21084  
Classification: Conditionally Exempt Small Quantity Generator  
  
Violation Status: No violations found

**Q109**  
**NE**  
**1/8-1/4**  
**0.173 mi.**  
**915 ft.**

**2493 3RD AVE**  
**BRONX, NY 10451**

**Site 2 of 8 in cluster Q**

**EDR US Hist Auto Stat 1015361440**  
**N/A**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

Name: BAH GENERAL AUTO REPAIRS  
Year: 2004  
Address: 2493 3RD AVE

Name: BAH GENERAL AUTO REPAIRS  
Year: 2005  
Address: 2493 3RD AVE

Name: BAH GENERAL AUTO REPAIRS  
Year: 2006  
Address: 2493 3RD AVE

Name: BAH GENERAL AUTO REPAIRS  
Year: 2007  
Address: 2493 3RD AVE

Name: BAH GENERAL AUTO REPAIRS  
Year: 2008  
Address: 2493 3RD AVE

**Actual:**  
**17 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**P110**  
**SSW**  
**1/8-1/4**  
**0.175 mi.**  
**922 ft.**

**244 E 128TH ST**  
**NEW YORK, NY 10035**

**EDR US Hist Auto Stat** **1015358119**  
**N/A**

**Site 5 of 12 in cluster P**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

Name: STRATFORD AUTO REPAIR  
Year: 2008  
Address: 244 E 128TH ST

**Actual:**  
**10 ft.**

Name: STRATFORD AUTO REPAIR  
Year: 2009  
Address: 244 E 128TH ST

**P111**  
**SSW**  
**1/8-1/4**  
**0.175 mi.**  
**923 ft.**

**CON EDISON**  
**E 128TH ST & 2ND AVE**  
**NEW YORK, NY 10035**

**RCRA-CESQG** **1014395668**  
**NYP004171336**

**Site 6 of 12 in cluster P**

**Relative:**  
**Higher**

RCRA-CESQG:

Date form received by agency: 06/08/2009  
Facility name: CON EDISON  
Facility address: E 128TH ST & 2ND AVE  
NEW YORK, NY 10035  
EPA ID: NYP004171336  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: NEIL SKOW  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (718) 204-4249  
Contact email: Not reported  
EPA Region: 02

**Actual:**  
**10 ft.**

Classification:

Conditionally Exempt Small Quantity Generator

Description:

Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**1014395668**

On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**P112**  
**SSW**  
**1/8-1/4**  
**0.175 mi.**  
**925 ft.**

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV**  
**2600 SECOND AVENUE**  
**NEW YORK, NY 10035**  
**Site 7 of 12 in cluster P**

**NY AST** **A100354122**  
**N/A**

**Relative:**  
**Higher**

AST:

Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-611482  
Program Type: PBS  
UTM X: 590067.64856  
UTM Y: 4517599.8147600004  
Expiration Date: 2014/12/01  
Site Type: Other

**Actual:**  
**10 ft.**

Affiliation Records:

Site Id: 442851  
Affiliation Type: Facility Owner  
Company Name: KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 2600 SECOND AVENUE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035  
Country Code: 001  
Phone: (201) 571-2700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/8/2011

Site Id: 442851  
Affiliation Type: Mail Contact  
Company Name: KIEWIT/WEEKS, AJV  
Contact Type: Not reported  
Contact Name: COLIN MCKERNAN  
Address1: 2600 SECOND AVENUE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035  
Country Code: 001  
Phone: (201) 571-2700

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV (Continued)**

**A100354122**

EMail: COLIN.MCKERNAN@KIEWIT.COM  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 2/25/2011

Site Id: 442851  
Affiliation Type: On-Site Operator  
Company Name: KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV  
Contact Type: Not reported  
Contact Name: BRIAN CONNOLLY  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (201) 571-2700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/8/2011

Site Id: 442851  
Affiliation Type: Emergency Contact  
Company Name: KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV  
Contact Type: Not reported  
Contact Name: PETER POTVIN  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (201) 832-0912  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/8/2011

**Tank Info:**

Tank Number: 001  
Tank Id: 237034  
Material Code: 0015  
Common Name of Substance: Motor Oil

**Equipment Records:**

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
K01 - Spill Prevention - Catch Basin  
D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
A00 - Tank Internal Protection - None  
G02 - Tank Secondary Containment - Vault (w/access)  
L00 - Piping Leak Detection - None  
E00 - Piping Secondary Containment - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV (Continued)**

**A100354122**

H00 - Tank Leak Detection - None  
I00 - Overfill - None  
B00 - Tank External Protection - None  
Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 12/09/2010  
Material Name: Motor Oil

Tank Number: 002  
Tank Id: 237035  
Material Code: 0021  
Common Name of Substance: Transmission Fluid

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
G02 - Tank Secondary Containment - Vault (w/access)  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
I00 - Overfill - None  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 12/09/2010  
Material Name: Transmission Fluid

Tank Number: 003  
Tank Id: 237036  
Material Code: 0010  
Common Name of Substance: Hydraulic Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV (Continued)**

**A100354122**

Equipment Records:

D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
K01 - Spill Prevention - Catch Basin  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
I00 - Overfill - None  
A00 - Tank Internal Protection - None  
G02 - Tank Secondary Containment - Vault (w/access)  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 12/09/2010  
Material Name: Hydraulic Oil

Tank Number: 004  
Tank Id: 237037  
Material Code: 0000  
Common Name of Substance: Empty

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
K01 - Spill Prevention - Catch Basin  
L00 - Piping Leak Detection - None  
A00 - Tank Internal Protection - None  
G02 - Tank Secondary Containment - Vault (w/access)  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
I00 - Overfill - None  
B00 - Tank External Protection - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Temporarily Out of Service  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV (Continued)**

**A100354122**

Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 12/09/2010  
Material Name: Empty

Tank Number: 005  
Tank Id: 237038  
Material Code: 0000  
Common Name of Substance: Empty

Equipment Records:

D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
L00 - Piping Leak Detection - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
G02 - Tank Secondary Containment - Vault (w/access)  
I00 - Overfill - None  
B00 - Tank External Protection - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Temporarily Out of Service  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 12/09/2010  
Material Name: Empty

Tank Number: 006  
Tank Id: 237039  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)  
L00 - Piping Leak Detection - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV (Continued)**

**A100354122**

I04 - Overfill - Product Level Gauge (A/G)  
A00 - Tank Internal Protection - None  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None  
Tank Location: 2  
Tank Type: Plastic  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 360  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 12/09/2010  
Material Name: Waste Oil/Used Oil

Tank Number: 007  
Tank Id: 237267  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
D00 - Pipe Type - No Piping  
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)  
L00 - Piping Leak Detection - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
J01 - Dispenser - Pressurized Dispenser  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None  
Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 1500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 02/07/2011  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 02/25/2011  
Material Name: Diesel

Tank Number: 008  
Tank Id: 237268

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV (Continued)**

**A100354122**

Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

D00 - Pipe Type - No Piping  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
J01 - Dispenser - Pressurized Dispenser  
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 1500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 02/07/2011  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 02/25/2011  
Material Name: Diesel

Tank Number: 009  
Tank Id: 237269  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
A00 - Tank Internal Protection - None  
J01 - Dispenser - Pressurized Dispenser  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
D00 - Pipe Type - No Piping  
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)  
L00 - Piping Leak Detection - None  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KIEWIT CONSTRUCTORS INC/WEEKS MARINE INC, AJV (Continued)**

**A100354122**

Install Date: 12/01/2009  
Capacity Gallons: 1500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 02/24/2011  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 03/08/2011  
Material Name: Diesel

Tank Number: 010  
Tank Id: 237270  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

D00 - Pipe Type - No Piping  
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)  
L00 - Piping Leak Detection - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
A00 - Tank Internal Protection - None  
J01 - Dispenser - Pressurized Dispenser  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 12/01/2009  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: BVCAMPBE  
Last Modified: 12/09/2010  
Material Name: Diesel

**P113 NYCDOT - WILLIS AVENUE BRIDGE**  
**SSW 2602 2ND AVE**  
**1/8-1/4 NEW YORK, NY 10035**  
**0.175 mi.**  
**925 ft. Site 8 of 12 in cluster P**

**RCRA-LQG 1000890164**  
**FINDS NY0000262477**

**Relative:  
Higher**

RCRA-LQG:  
Date form received by agency: 03/02/2012  
Facility name: NYCDOT - WILLIS AVENUE BRIDGE  
Facility address: 2602 2ND AVE  
NEW YORK, NY 10035

**Actual:  
10 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOT - WILLIS AVENUE BRIDGE (Continued)**

**1000890164**

EPA ID: NY0000262477  
Mailing address: 2ND AVE  
MANHATTAN, NY 10035  
Contact: JOSH G MAGNAS  
Contact address: 2ND AVE  
MANHATTAN, NY 10035  
Contact country: US  
Contact telephone: (212) 831-6959  
Contact email: JOSH.MAGNAS@WILLISBRIDGE.COM  
EPA Region: 02  
Land type: State  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

**Owner/Operator Summary:**

Owner/operator name: NYCDOT  
Owner/operator address: RECTOR ST  
NEW YORK, NY 10006  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Municipal  
Owner/Operator Type: Owner  
Owner/Op start date: 12/31/1979  
Owner/Op end date: Not reported

Owner/operator name: NYC DOT  
Owner/operator address: WATER ST 5TH FLOOR  
MANHATTAN, NY 10041  
Owner/operator country: US  
Owner/operator telephone: (212) 839-4019  
Legal status: State  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2007  
Owner/Op end date: Not reported

Owner/operator name: NYC DOT  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: State  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/2007  
Owner/Op end date: Not reported

Owner/operator name: NYCDOT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOT - WILLIS AVENUE BRIDGE (Continued)**

**1000890164**

Owner/operator address: RECTOR ST  
NEW YORK, NY 10006  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Municipal  
Owner/Operator Type: Operator  
Owner/Op start date: 12/31/1979  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/02/2010  
Facility name: NYCDOT - WILLIS AVENUE BRIDGE  
Classification: Large Quantity Generator

Date form received by agency: 01/01/2007  
Facility name: NYCDOT - WILLIS AVENUE BRIDGE  
Site name: NYCDOT WILLIS AVENUE BRIDGE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/01/2006  
Facility name: NYCDOT - WILLIS AVENUE BRIDGE  
Site name: NYCDOT WILLIS AVENUE BRIDGE  
Classification: Small Quantity Generator

Date form received by agency: 02/24/2004  
Facility name: NYCDOT - WILLIS AVENUE BRIDGE  
Site name: NYCDOT WILLIS AVENUE BRIDGE  
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002  
Facility name: NYCDOT - WILLIS AVENUE BRIDGE  
Site name: NYC DOT - DIVISION OF BRIDGES  
Classification: Large Quantity Generator

Date form received by agency: 05/04/1994  
Facility name: NYCDOT - WILLIS AVENUE BRIDGE  
Site name: NYCDOT BIN 224005  
Classification: Small Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOT - WILLIS AVENUE BRIDGE (Continued)**

**1000890164**

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D005  
Waste name: BARIUM

Waste code: D006  
Waste name: CADMIUM

Waste code: D007  
Waste name: CHROMIUM

Waste code: D008  
Waste name: LEAD

Waste code: B002  
Waste name: B002

Waste code: B007  
Waste name: B007

Waste code: D008  
Waste name: LEAD

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 667

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOT - WILLIS AVENUE BRIDGE (Continued)**

**1000890164**

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs):

667

Waste code:

D005

Waste name:

BARIUM

Amount (Lbs):

666

Waste code:

D006

Waste name:

CADMIUM

Amount (Lbs):

666

Waste code:

D007

Waste name:

CHROMIUM

Amount (Lbs):

666

Waste code:

D008

Waste name:

LEAD

Amount (Lbs):

240006

Facility Has Received Notices of Violations:

Regulation violated:

Not reported

Area of violation:

Listing - General

Date violation determined:

10/29/2010

Date achieved compliance:

02/03/2011

Violation lead agency:

State

Enforcement action:

WRITTEN INFORMAL

Enforcement action date:

11/15/2010

Enf. disposition status:

Action Satisfied (Case Closed)

Enf. disp. status date:

02/03/2011

Enforcement lead agency:

State

Proposed penalty amount:

Not reported

Final penalty amount:

Not reported

Paid penalty amount:

Not reported

Regulation violated:

Not reported

Area of violation:

TSD IS-Preparedness and Prevention

Date violation determined:

10/29/2010

Date achieved compliance:

02/03/2011

Violation lead agency:

State

Enforcement action:

WRITTEN INFORMAL

Enforcement action date:

11/15/2010

Enf. disposition status:

Action Satisfied (Case Closed)

Enf. disp. status date:

02/03/2011

Enforcement lead agency:

State

Proposed penalty amount:

Not reported

Final penalty amount:

Not reported

Paid penalty amount:

Not reported

Regulation violated:

Not reported

Area of violation:

Generators - Manifest

Date violation determined:

10/29/2010



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOT - WILLIS AVENUE BRIDGE (Continued)**

**1000890164**

Date achieved compliance: 02/03/2011  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/15/2010  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/03/2011  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-General Facility Standards  
Date violation determined: 10/29/2010  
Date achieved compliance: 02/03/2011  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/15/2010  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/03/2011  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: LDR - General  
Date violation determined: 10/29/2010  
Date achieved compliance: 02/03/2011  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/15/2010  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/03/2011  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: State Statute or Regulation  
Date violation determined: 10/29/2010  
Date achieved compliance: 02/03/2011  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/15/2010  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/03/2011  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Contingency Plan and Emergency Procedures  
Date violation determined: 10/29/2010  
Date achieved compliance: 02/03/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOT - WILLIS AVENUE BRIDGE (Continued)**

**1000890164**

Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/15/2010  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/03/2011  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 10/29/2010  
Date achieved compliance: 02/03/2011  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/15/2010  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 02/03/2011  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 08/26/1997  
Date achieved compliance: 10/27/1997  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/26/1997  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-Contingency Plan and Emergency Procedures  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Listing - General  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOT - WILLIS AVENUE BRIDGE (Continued)**

**1000890164**

Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Manifest  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: LDR - General  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-Preparedness and Prevention  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: State Statute or Regulation  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Evaluation date: 10/29/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-General Facility Standards  
Date achieved compliance: 02/03/2011  
Evaluation lead agency: State

Evaluation date: 03/01/1997  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 10/27/1997  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110007985699

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

P114  
SSW  
1/8-1/4  
0.175 mi.  
925 ft.

NEW YORK CITY DEPT OF TRANSPORTATION  
2602 SECOND AVENUE  
NEW YORK, NY 10035

NY MANIFEST S112139251  
N/A

Site 9 of 12 in cluster P

Relative:  
Higher

NY MANIFEST:

EPA ID: NY0000262477  
Country: USA  
Mailing Name: NEW YORK CITY DEPT OF TRANSPORTATION  
Mailing Contact: ANTHONY GROSSO  
Mailing Address: 2 RECTOR STREET 4TH FLOOR  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10006  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-788-1705

Actual:  
10 ft.

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: TXR000050930  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-03-09  
Trans1 Recv Date: 2012-03-09  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-03-20  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002182897  
Waste Code: Not reported  
Quantity: 10.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: L Landfill.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 003247035SKS  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Trans1 State ID: TXR000050930  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-07-12  
Trans1 Recv Date: 2012-07-12  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-07-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002182897  
Waste Code: Not reported  
Quantity: 75.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 003380528FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: TXR000081205  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-18  
Trans1 Recv Date: 2012-10-18  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-29  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002182897  
Waste Code: Not reported  
Quantity: 5.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: L Landfill.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 003521230SKS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-05-18  
Trans1 Recv Date: 2012-05-18  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-05-24  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 600.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 001129675GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: Y  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H061

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-05-18  
Trans1 Recv Date: 2012-05-18  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-05-24

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 110.0  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 2.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 001129675GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: Y  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-05-18  
Trans1 Recv Date: 2012-05-18  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-05-24  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 175.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 001129675GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: Y  
Discr Residue Ind: N  
Discr Partial Reject Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 60240.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923214JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK CITY DEPT OF TRANSPORTATION (Continued)**

**S112139251**

Waste Code: Not reported  
Quantity: 58680.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923215JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 60780.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923217JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 57640.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923218JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 65940.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Year: 2012  
Manifest Tracking Num: 008923219JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 49020.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0

Year: 2012  
Manifest Tracking Num: 008923220JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 51900.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923221JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 57380.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923222JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK CITY DEPT OF TRANSPORTATION (Continued)**

**S112139251**

Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 48620.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923223JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-10-26  
Trans1 Recv Date: 2012-10-26  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-10-26  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK CITY DEPT OF TRANSPORTATION (Continued)**

**S112139251**

Trans2 EPA ID: Not reported  
TSDf ID: NJD002200046  
Waste Code: Not reported  
Quantity: 58940.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923224JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-11-07  
Trans1 Recv Date: 2012-11-07  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-11-07  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDf ID: NJD002200046  
Waste Code: Not reported  
Quantity: 56600.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923225JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-11-07  
Trans1 Recv Date: 2012-11-07  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-11-07  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 47740.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923226JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-11-07  
Trans1 Recv Date: 2012-11-07  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-11-07  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 52580.0  
Units: P - Pounds  
Number of Containers: 1.0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEW YORK CITY DEPT OF TRANSPORTATION (Continued)

S112139251

Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923227JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000363820  
Trans2 State ID: Not reported  
Generator Ship Date: 2012-11-07  
Trans1 Recv Date: 2012-11-07  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2012-11-07  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0000262477  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 55460.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2012  
Manifest Tracking Num: 008923228JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: Y  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

[Click this hyperlink](#) while viewing on your computer to access 27 additional NY\_MANIFEST: record(s) in the EDR Site Report.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

P115  
SSW  
1/8-1/4  
0.180 mi.  
953 ft.

OTERO, 128TH & 2ND  
2ND AVE / 128TH ST  
NEW YORK CITY, NY  
  
Site 10 of 12 in cluster P

NY LTANKS S100144670  
N/A

Relative:  
Higher

LTANKS:

Actual:  
10 ft.

Site ID: 317883  
Spill Number/Closed Date: 8600789 / 5/1/1986  
Spill Date: 5/1/1986  
Spill Cause: Tank Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates potential for fire or hazard. (Highly Improbable)  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: TOMASELLO  
Referred To: Not reported  
Reported to Dept: 5/1/1986  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Affected Persons  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 6/9/1986  
Spill Record Last Update: 10/14/1997  
Spiller Name: Not reported  
Spiller Company: NYC DEPT. OF HOUSING PRE.  
Spiller Address: 75 MAIDEN LANE  
Spiller City,St,Zip: NEW YORK, NY 10038  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 256239  
DEC Memo: Not reported  
Remarks: PHONE SEEP

Material:

Site ID: 317883  
Operable Unit ID: 897110  
Operable Unit: 01  
Material ID: 477363  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**O116**  
**West**  
**1/8-1/4**  
**0.182 mi.**  
**959 ft.**

**CON EDISON**  
**E 130TH ST & LEXINGTON AVE**  
**NEW YORK, NY 10037**

**RCRA-CESQG** **1012185728**  
**NYP004165619**

**Site 2 of 3 in cluster O**

**Relative:**  
**Higher**

RCRA-CESQG:

Date form received by agency: 04/02/2009

Facility name: CON EDISON

Facility address: E 130TH ST & LEXINGTON AVE

NEW YORK, NY 10037

EPA ID: NYP004165619

Mailing address: 4 IRVING PL, RM 828

NEW YORK, NY 10003

Contact: STEVEN MARTIS

Contact address: Not reported

Contact country: Not reported

Contact telephone: (917) 416-5423

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Used oil transporter: No

Violation Status: No violations found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

O117  
West  
1/8-1/4  
0.182 mi.  
959 ft.

2170 LEXINGTON AVENUE  
2170 LEXINGTON AVENUE  
MANHATTAN, NY

NY AST S102147990  
NY Spills N/A

Site 3 of 3 in cluster O

Relative:  
Higher

AST:

Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-210803  
Program Type: PBS  
UTM X: 589851.64058999997  
UTM Y: 4517958.7402299996  
Expiration Date: 2012/08/24  
Site Type: Apartment Building/Office Building

Actual:  
8 ft.

Affiliation Records:

Site Id: 7647  
Affiliation Type: Mail Contact  
Company Name: TRICHAM HOUSING ASSOCIATES  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 401 EAST 74TH STREET  
Address2: C/O KEN SILVERMAN  
City: NEW YORK  
State: NY  
Zip Code: 10021  
Country Code: 001  
Phone: (212) 535-4400  
EMail: KENSILVERMAN@MSN.COM  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Site Id: 7647  
Affiliation Type: On-Site Operator  
Company Name: 2170 LEXINGTON AVE  
Contact Type: Not reported  
Contact Name: FRANK PLUMMER  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 427-7333  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Site Id: 7647  
Affiliation Type: Emergency Contact  
Company Name: TRICHAM HOUSING ASSOCIATES  
Contact Type: Not reported  
Contact Name: KEN SILVERMAN  
Address1: Not reported  
Address2: Not reported  
City: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2170 LEXINGTON AVENUE (Continued)**

**S102147990**

State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (212) 535-4400  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Site Id: 7647  
Affiliation Type: Facility Owner  
Company Name: TRICHAM HOUSING ASSOCIATES  
Contact Type: VP/GEN PARTNER  
Contact Name: KENNETH R. SILVERMAN  
Address1: 401 EAST 74TH STREET  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10021  
Country Code: 001  
Phone: (212) 535-4400  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Tank Info:

Tank Number: 001  
Tank Id: 9735  
Material Code: 0003  
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Equipment Records:

B00 - Tank External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
G00 - Tank Secondary Containment - None  
H99 - Tank Leak Detection - Other

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1985  
Capacity Gallons: 5000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: TRANSLAT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2170 LEXINGTON AVENUE (Continued)**

**S102147990**

Last Modified: 03/04/2004  
Material Name: #6 Fuel Oil (On-Site Consumption)

**SPILLS:**

Facility ID: 9315090  
Facility Type: ER  
DER Facility ID: 148490  
Site ID: 176693  
DEC Region: 2  
Spill Date: 3/23/1994  
Spill Number/Closed Date: 9315090 / 3/23/1994  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: O'DOWD  
Referred To: Not reported  
Reported to Dept: 3/23/1994  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Other  
Cleanup Ceased: 3/23/1994  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 3/30/1994  
Spill Record Last Update: 9/30/2004  
Spiller Name: Not reported  
Spiller Company: TRICHMAN HOUSING ASSOC.  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Not reported

Remarks: TANK OVERFILL DUE TO DEFECTIVE PETROMETER GAUGE SENT OUT SPILL CREW -  
DEP WILL BE NOTIFIED AND SPILL WILL BE CLEANED UP - NO CALL BACK -

**Material:**

Site ID: 176693  
Operable Unit ID: 993356  
Operable Unit: 01  
Material ID: 386862  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -15  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2170 LEXINGTON AVENUE (Continued)**

**S102147990**

Tank Test:

**P118**  
**SW**  
**1/8-1/4**  
**0.183 mi.**  
**966 ft.**

**222 E 128TH ST**  
**NEW YORK, NY 10035**

**Site 11 of 12 in cluster P**

**EDR US Hist Auto Stat 1015336424**  
**N/A**

**Relative:**  
**Higher**

EDR Historical Auto Stations:  
Name: BRIC AUTO REPAIR CO  
Year: 2002  
Address: 222 E 128TH ST

**Actual:**  
**10 ft.**

**Q119**  
**NE**  
**1/8-1/4**  
**0.185 mi.**  
**979 ft.**

**YOUNG CONTRACTING CORP.**  
**2501 THIRD AVENUE**  
**BRONX, NY 10451**

**Site 3 of 8 in cluster Q**

**NY SWF/LF S105841700**  
**N/A**

**Relative:**  
**Higher**

SWF/LF:  
Flag: INACTIVE  
Region Code: 2  
Phone Number: 2129933702  
Owner Name: Not reported  
Owner Type: Not reported  
Owner Address: Not reported  
Owner Addr2: Not reported  
Owner City,St,Zip: Not reported  
Owner Email: Not reported  
Owner Phone: Not reported  
Contact Name: NUNZIO SQUILLANTE  
Contact Address: Not reported  
Contact Addr2: Not reported  
Contact City,St,Zip: Not reported  
Contact Email: Not reported  
Contact Phone: Not reported  
Activity Desc: Transfer station - permit  
Activity Number: [03T59]  
Active: No  
East Coordinate: 590400  
North Coordinate: 4518200  
Accuracy Code: Not reported  
Regulatory Status: Not reported  
Waste Type: Not reported  
Authorization #: 2-6004-00073  
Authorization Date: Not reported  
Expiration Date: Not reported

**Actual:**  
**17 ft.**

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>R120</b> <b>SW</b> <b>1/8-1/4</b> <b>0.191 mi.</b> <b>1006 ft.</b>	<b>CON EDISON SERVICE BOX: 21082</b> <b>214 E 128TH ST</b> <b>NEW YORK, NY 10029</b>  <b>Site 1 of 12 in cluster R</b>	<b>RCRA NonGen / NLR</b>	<b>1016450515</b> <b>NYP004295408</b>
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<b>Relative:</b> <b>Higher</b>	RCRA NonGen / NLR: Date form received by agency: 04/22/2013 Facility name: CON EDISON SERVICE BOX: 21082 Facility address: 214 E 128TH ST NEW YORK, NY 10029  EPA ID: NYP004295408 Contact: JUAN RODRIGUEZ Contact address: Not reported Not reported Contact country: Not reported Contact telephone: (347) 865-5931 Contact email: Not reported EPA Region: 02 Classification: Non-Generator Description: Handler: Non-Generators do not presently generate hazardous waste
<b>Actual:</b> <b>9 ft.</b>	

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/22/2013
Facility name:	CON EDISON SERVICE BOX: 21082
Classification:	Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

<b>R121</b> <b>SW</b> <b>1/8-1/4</b> <b>0.191 mi.</b> <b>1006 ft.</b>	<b>CON EDISON</b> <b>214 E 128 ST</b> <b>NEW YORK, NY 10029</b>  <b>Site 2 of 12 in cluster R</b>	<b>NY MANIFEST</b>	<b>S113495821</b> <b>N/A</b>
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<b>Relative:</b> <b>Higher</b>	NY MANIFEST: EPA ID: NYP004295408 Country: USA  <b>Actual:</b> <b>9 ft.</b>
<b>Actual:</b> <b>9 ft.</b>	Mailing Name: CON EDISON Mailing Contact: TOM TEELING Mailing Address: 4 IRVING PLACE 15TH FLOOR Mailing Address 2: Not reported Mailing City: NEW YORK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CON EDISON (Continued)

S113495821

Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295408  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841432JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295408  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495821**

Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841432JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

122  
ESE  
1/8-1/4  
0.192 mi.  
1014 ft.

**50 BRUCKNER BLVD  
BRONX, NY 10454**

**EDR US Hist Auto Stat 1015521418  
N/A**

**Relative:  
Higher**

EDR Historical Auto Stations:

Name: H D J AUTO INCORPORATED  
Year: 1999  
Address: 50 BRUCKNER BLVD

Name: H D J AUTO INCORPORATED  
Year: 2000  
Address: 50 BRUCKNER BLVD

Name: HDJ AUTO INC  
Year: 2001  
Address: 50 BRUCKNER BLVD

Name: HDJ AUTO INC  
Year: 2002  
Address: 50 BRUCKNER BLVD

Name: NEW DISCOUNT AUTO BODY  
Year: 2003  
Address: 50 BRUCKNER BLVD

**Actual:  
22 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**Q123**  
**NE**  
**1/8-1/4**  
**0.195 mi.**  
**1028 ft.**

**2507 3RD AVE**  
**BRONX, NY 10451**

**EDR US Hist Auto Stat** **1015364044**  
**N/A**

**Site 4 of 8 in cluster Q**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

**Actual:**  
**17 ft.**

Name: REGGIE HUMPHREYS AUTO BODY REPR  
Year: 1999  
Address: 2507 3RD AVE

Name: REGGIE HUMPHREYS AUTO BODY REPR  
Year: 2000  
Address: 2507 3RD AVE

Name: REGGIE HMPHRY AUTO BODY REPR  
Year: 2001  
Address: 2507 3RD AVE

Name: REGGIE HMPHRY AUTO BODY REPR  
Year: 2002  
Address: 2507 3RD AVE

Name: REGGIE HMPHRY AUTO BODY REPR  
Year: 2003  
Address: 2507 3RD AVE

Name: REGGIE HMPHRY AUTO BODY  
Year: 2004  
Address: 2507 3RD AVE

Name: METS AUTO TOPS INC  
Year: 2007  
Address: 2507 3RD AVE

Name: METS AUTO TOPS INC  
Year: 2008  
Address: 2507 3RD AVE

Name: METS AUTO TOPS  
Year: 2010  
Address: 2507 3RD AVE

Name: METS AUTO TOPS  
Year: 2011  
Address: 2507 3RD AVE

Name: METS AUTO TOPS  
Year: 2012  
Address: 2507 3RD AVE

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

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<b>R124</b> <b>SW</b> <b>1/8-1/4</b> <b>0.199 mi.</b> <b>1052 ft.</b>	<b>CON EDISON SERVICE BOX: 21081</b> <b>206 E 128TH ST</b> <b>NEW YORK, NY 10029</b>  <b>Site 3 of 12 in cluster R</b>	<b>RCRA NonGen / NLR</b>	<b>1016450514</b> <b>NYP004295390</b>
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<b>Relative:</b> <b>Higher</b>  <b>Actual:</b> <b>9 ft.</b>	<p>RCRA NonGen / NLR:</p> <p>Date form received by agency: 04/22/2013</p> <p>Facility name: CON EDISON SERVICE BOX: 21081</p> <p>Facility address: 206 E 128TH ST NEW YORK, NY 10029</p> <p>EPA ID: NYP004295390</p> <p>Contact: JUAN RODRIGUEZ</p> <p>Contact address: Not reported Not reported</p> <p>Contact country: Not reported</p> <p>Contact telephone: (347) 865-5931</p> <p>Contact email: Not reported</p> <p>EPA Region: 02</p> <p>Classification: Non-Generator</p> <p>Description: Handler: Non-Generators do not presently generate hazardous waste</p>
---	---

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/22/2013
Facility name:	CON EDISON SERVICE BOX: 21081
Classification:	Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

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<b>R125</b> <b>SW</b> <b>1/8-1/4</b> <b>0.199 mi.</b> <b>1052 ft.</b>	<b>CON EDISON</b> <b>206 E 128 ST</b> <b>NEW YORK, NY 10029</b>  <b>Site 4 of 12 in cluster R</b>	<b>NY MANIFEST</b>	<b>S113495820</b> <b>N/A</b>
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<b>Relative:</b> <b>Higher</b>  <b>Actual:</b> <b>9 ft.</b>	<p>NY MANIFEST:</p> <p>EPA ID: NYP004295390</p> <p>Country: USA</p> <p>Mailing Name: CON EDISON</p> <p>Mailing Contact: TOM TEELING</p> <p>Mailing Address: 4 IRVING PLACE 15TH FLOOR</p> <p>Mailing Address 2: Not reported</p> <p>Mailing City: NEW YORK</p>
---	--

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495820**

Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295390  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841433JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295390  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495820**

Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841433JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

R126  
SW  
1/8-1/4  
0.204 mi.  
1076 ft.

**CON EDISON SERVICE BOX: 21080**  
**202 E 128TH ST**  
**NEW YORK, NY 10029**  
**Site 5 of 12 in cluster R**

**RCRA NonGen / NLR 1016450512**  
**NYP004295374**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**10 ft.**

Date form received by agency: 04/22/2013  
Facility name: CON EDISON SERVICE BOX: 21080  
Facility address: 202 E 128TH ST  
NEW YORK, NY 10029  
EPA ID: NYP004295374  
Contact: JUAN RODRIGUEZ  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (347) 865-5931  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON SERVICE BOX: 21080 (Continued)**

**1016450512**

Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/22/2013  
Facility name: CON EDISON SERVICE BOX: 21080  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

R127  
SW  
1/8-1/4  
0.204 mi.  
1076 ft.

**CON EDISON  
202 E 128 ST  
NEW YORK, NY 10029**

**NY MANIFEST S113495818  
N/A**

**Site 6 of 12 in cluster R**

**Relative:  
Higher**

NY MANIFEST:

EPA ID: NYP004295374  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: TOM TEELING  
Mailing Address: 4 IRVING PLACE 15TH FLOOR  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

**Actual:  
10 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295374  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841434JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495818**

Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295374  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841434JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

R128  
SW  
1/8-1/4  
0.205 mi.  
1085 ft.

**CON EDISON SERVICE BOX: 21085**  
**E 128 ST & 3RD AVE**  
**NEW YORK, NY 10035**  
**Site 7 of 12 in cluster R**

**RCRA NonGen / NLR 1016450549**  
**NYP004295747**

**Relative:  
Higher**

RCRA NonGen / NLR:  
Date form received by agency: 04/25/2013  
Facility name: CON EDISON SERVICE BOX: 21085  
Facility address: E 128 ST & 3RD AVE  
NEW YORK, NY 10035  
EPA ID: NYP004295747  
Contact: JOSE MONTALVO  
Contact address: Not reported

**Actual:  
10 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON SERVICE BOX: 21085 (Continued)**

**1016450549**

Contact country: Not reported  
Contact telephone: Not reported  
Contact telephone: (212) 427-1331  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/25/2013  
Facility name: CON EDISON SERVICE BOX: 21085  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

R129  
SW  
1/8-1/4  
0.205 mi.  
1085 ft.

**CON EDISON  
E 128TH ST & 3RD AVE  
NEW YORK, NY 10035  
Site 8 of 12 in cluster R**

**RCRA-CESQG 1014396598  
NYP004189114**

Relative:  
Higher

RCRA-CESQG:

Date form received by agency: 07/30/2009  
Facility name: CON EDISON  
Facility address: E 128TH ST & 3RD AVE  
NEW YORK, NY 10035  
EPA ID: NYP004189114  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: ANTONIO DELGADO  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (212) 580-8383  
Contact email: Not reported  
EPA Region: 02  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous

Actual:  
10 ft.



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON (Continued)**

**1014396598**

waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

R130  
 SW  
 1/8-1/4  
 0.205 mi.  
 1085 ft.

**CON EDISON SERVICE BOX: 21083**  
**E 128TH ST & 3RD AVE**  
**NEW YORK, NY 10035**  
**Site 9 of 12 in cluster R**

**RCRA NonGen / NLR 1016450554**  
**NYP004295796**

Relative:  
 Higher

RCRA NonGen / NLR:

Date form received by agency: 04/25/2013  
 Facility name: CON EDISON SERVICE BOX: 21083  
 Facility address: E 128TH ST & 3RD AVE  
 NEW YORK, NY 10035  
 EPA ID: NYP004295796  
 Contact: JOSE MONTALVO  
 Contact address: Not reported  
 Not reported  
 Contact country: Not reported  
 Contact telephone: (212) 427-1331  
 Contact email: Not reported  
 EPA Region: 02  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:  
 10 ft.

Handler Activities Summary:

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON SERVICE BOX: 21083 (Continued)**

**1016450554**

Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/25/2013  
Facility name: CON EDISON SERVICE BOX: 21083  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

**Q131**  
**NE**  
**1/8-1/4**  
**0.207 mi.**  
**1093 ft.**

**2515 3RD AVE**  
**BRONX, NY 10451**  
**Site 5 of 8 in cluster Q**

**EDR US Hist Auto Stat 1015365031**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**18 ft.**

EDR Historical Auto Stations:

Name: BAH GENERAL AUTO REPAIR  
Year: 1999  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR  
Year: 2000  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR  
Year: 2001  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR  
Year: 2002  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR  
Year: 2003  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR  
Year: 2004  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR  
Year: 2005  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR  
Year: 2006  
Address: 2515 3RD AVE

Name: BAH GENERAL AUTO REPAIR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

1015365031

Year: 2007  
Address: 2515 3RD AVE  
  
Name: BAH GENERAL AUTO REPAIR  
Year: 2008  
Address: 2515 3RD AVE  
  
Name: BAH GENERAL AUTO REPAIR  
Year: 2009  
Address: 2515 3RD AVE  
  
Name: YARED AUTO SERVICE & E R  
Year: 2011  
Address: 2515 3RD AVE  
  
Name: YARED AUTO SERVICE & E R  
Year: 2012  
Address: 2515 3RD AVE

P132  
SSW  
1/8-1/4  
0.210 mi.  
1111 ft.

FORMER OLD CERTIFIED CONCRETE PLANT  
EAST 127TH ST AND 2ND AVE  
NY, NY 10035

NY UST U004122368  
NY AST N/A

Site 12 of 12 in cluster P

Relative:  
Higher

UST:  
Id/Status: 2-248894 / Unregulated  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: N/A  
UTM X: 590034.62512999994  
UTM Y: 4517561.6275000004  
Site Type: Other

Actual:  
10 ft.

Affiliation Records:

Site Id: 9857  
Affiliation Type: Facility Owner  
Company Name: NEW YORK CITY DEPT OF TRANSPORTATION  
Contact Type: PROJECT MANAGER  
Contact Name: MEHRZAD ASBAGH  
Address1: 40 WORTH STREET  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10013  
Country Code: 001  
Phone: (212) 566-4930  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008  
  
Site Id: 9857  
Affiliation Type: Mail Contact  
Company Name: NYC DEPT OF TRANSPORTATION- FACILITIES MAINTENANCE  
Contact Type: Not reported  
Contact Name: PETER SAMBALIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Address1: 69-46 SYBILLA STREET  
Address2: Not reported  
City: FOREST HILLS  
State: NY  
Zip Code: 11375  
Country Code: 001  
Phone: (212) 566-4930  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008

Site Id: 9857  
Affiliation Type: On-Site Operator  
Company Name: FORMER OLD CERTIFIED CONCRETE PLANT  
Contact Type: Not reported  
Contact Name: N/A  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: N/A  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008

Site Id: 9857  
Affiliation Type: Emergency Contact  
Company Name: NEW YORK CITY DEPT OF TRANSPORTATION  
Contact Type: Not reported  
Contact Name: N/A  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: N/A  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008

**Tank Info:**

Tank Number: 1D1  
Tank ID: 11171  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 04/01/1965  
Date Tank Closed: 03/15/1999  
Registered: True  
Tank Location: Underground

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 04/17/2008

Equipment Records:

B00 - Tank External Protection - None  
G03 - Tank Secondary Containment - Vault (w/o access)  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
I00 - Overfill - None

Tank Number: 1G1  
Tank ID: 11176  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 04/01/1965  
Date Tank Closed: 03/15/1999  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 04/17/2008

Equipment Records:

B00 - Tank External Protection - None  
I00 - Overfill - None  
H00 - Tank Leak Detection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 2D1  
Tank ID: 11172  
Tank Status: Closed - In Place

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 04/01/1965  
Date Tank Closed: 03/15/1999  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 04/17/2008

Equipment Records:

I00 - Overfill - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
H00 - Tank Leak Detection - None  
G03 - Tank Secondary Containment - Vault (w/o access)  
B00 - Tank External Protection - None

Tank Number: 2G1  
Tank ID: 11177  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 04/01/1965  
Date Tank Closed: 03/15/1999  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 9999  
Common Name of Substance: Other

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 04/17/2008

Equipment Records:

B00 - Tank External Protection - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I00 - Overfill - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

G03 - Tank Secondary Containment - Vault (w/o access)

AST:

Region: STATE  
DEC Region: 2  
Site Status: Unregulated  
Facility Id: 2-248894  
Program Type: PBS  
UTM X: 590034.62512999994  
UTM Y: 4517561.6275000004  
Expiration Date: N/A  
Site Type: Other

Affiliation Records:

Site Id: 9857  
Affiliation Type: Facility Owner  
Company Name: NEW YORK CITY DEPT OF TRANSPORTATION  
Contact Type: PROJECT MANAGER  
Contact Name: MEHRZAD ASBAGH  
Address1: 40 WORTH STREET  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10013  
Country Code: 001  
Phone: (212) 566-4930  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008

Site Id: 9857  
Affiliation Type: Mail Contact  
Company Name: NYC DEPT OF TRANSPORTATION- FACILITIES MAINTENANCE  
Contact Type: Not reported  
Contact Name: PETER SAMBALIS  
Address1: 69-46 SYBILLA STREET  
Address2: Not reported  
City: FOREST HILLS  
State: NY  
Zip Code: 11375  
Country Code: 001  
Phone: (212) 566-4930  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008

Site Id: 9857  
Affiliation Type: On-Site Operator  
Company Name: FORMER OLD CERTIFIED CONCRETE PLANT  
Contact Type: Not reported  
Contact Name: N/A  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Zip Code: Not reported  
Country Code: 001  
Phone: N/A  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008

Site Id: 9857  
Affiliation Type: Emergency Contact  
Company Name: NEW YORK CITY DEPT OF TRANSPORTATION  
Contact Type: Not reported  
Contact Name: N/A  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: N/A  
EMail: Not reported  
Fax Number: Not reported  
Modified By: CGFREEDM  
Date Last Modified: 6/12/2008

Tank Info:

Tank Number: 0D3  
Tank Id: 11175  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

B00 - Tank External Protection - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I00 - Overfill - None  
G00 - Tank Secondary Containment - None  
1  
Tank Location:  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 07/01/1975  
Capacity Gallons: 1500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001  
Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Diesel



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Tank Number: 0H1  
Tank Id: 11178  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

B00 - Tank External Protection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
G00 - Tank Secondary Containment - None  
H00 - Tank Leak Detection - None  
I00 - Overfill - None

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 01/01/1981  
Capacity Gallons: 1000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001  
Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Diesel

Tank Number: 0H3  
Tank Id: 11179  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

G00 - Tank Secondary Containment - None  
H00 - Tank Leak Detection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
I00 - Overfill - None  
B00 - Tank External Protection - None

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 06/01/1975  
Capacity Gallons: 1000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Diesel

Tank Number: 0H5  
Tank Id: 11180  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
H00 - Tank Leak Detection - None  
B00 - Tank External Protection - None  
I00 - Overfill - None

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 01/01/1981  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001  
Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Diesel

Tank Number: 0H6  
Tank Id: 11181  
Material Code: 9999  
Common Name of Substance: Other

Equipment Records:

B00 - Tank External Protection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
G00 - Tank Secondary Containment - None  
H00 - Tank Leak Detection - None  
I00 - Overfill - None

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 09/01/1977

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Capacity Gallons: 2000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001  
Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Other

Tank Number: 0M1  
Tank Id: 11182  
Material Code: 9999  
Common Name of Substance: Other

Equipment Records:

B00 - Tank External Protection - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I00 - Overfill - None  
G00 - Tank Secondary Containment - None

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 09/01/1977  
Capacity Gallons: 2000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001  
Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Other

Tank Number: 1D2  
Tank Id: 11173  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

G00 - Tank Secondary Containment - None  
B00 - Tank External Protection - None  
I00 - Overfill - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
H00 - Tank Leak Detection - None

Tank Location: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER OLD CERTIFIED CONCRETE PLANT (Continued)**

**U004122368**

Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 10/01/1982  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001  
Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Diesel

Tank Number: 2D2  
Tank Id: 11174  
Material Code: 0008  
Common Name of Substance: Diesel

Equipment Records:

B00 - Tank External Protection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
G00 - Tank Secondary Containment - None  
H00 - Tank Leak Detection - None  
I00 - Overfill - None

Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 10/01/1982  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 07/01/2001  
Register: True  
Modified By: dxliving  
Last Modified: 04/17/2008  
Material Name: Diesel

R133  
SW  
1/8-1/4  
0.211 mi.  
1114 ft.

**NEW YORK AUTO MALL SITE**  
**2485-2495 2ND AVE - EAST HARLE**  
**NEW YORK, NY 10035**  
**Site 10 of 12 in cluster R**

**RCRA-SQG 1007371391**  
**NJ MANIFEST NYR000124560**  
**NY MANIFEST**

**Relative:**  
**Higher**

RCRA-SQG:  
Date form received by agency: 01/01/2007  
Facility name: NEW YORK AUTO MALL SITE  
Facility address: 2485-2495 2ND AVE - EAST HARLE  
NEW YORK, NY 10035  
EPA ID: NYR000124560

**Actual:**  
**11 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Mailing address: 2ND AVE - EAST HARLEM  
NEW YORK, NY 10035  
Contact: PETER PARIS  
Contact address: 2ND AVE - EAST HARLEM  
NEW YORK, NY 10035  
Contact country: US  
Contact telephone: (212) 708-3131  
Contact email: PETERPARIS@AOL.COM  
EPA Region: 02  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: POTAMKIN DEVELOPMENT CO LLC  
Owner/operator address: 11TH AVE  
NEW YORK, NY 10019  
Owner/operator country: US  
Owner/operator telephone: (212) 708-3131  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/14/2004  
Owner/Op end date: Not reported

Owner/operator name: POTAMKIN DEVELOPMENT CO LLC  
Owner/operator address: 11TH AVE  
NEW YORK, NY 10019  
Owner/operator country: US  
Owner/operator telephone: (212) 708-3131  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/14/2004  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Facility name: NEW YORK AUTO MALL SITE  
Classification: Small Quantity Generator

Date form received by agency: 05/19/2004  
Facility name: NEW YORK AUTO MALL SITE  
Classification: Large Quantity Generator

Violation Status: No violations found

**NJ MANIFEST:**

Manifest Code: NJA5013116  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NYD986969947  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06220421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013114  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NYD986969947  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013115  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NYD986969947  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013117  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NYD986969947  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Unit:	Not reported
Hand Code:	Not reported
Manifest Code:	NJA5013118
EPA ID:	NYR000124560
Date Shipped:	06/04/2004
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000029967
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/04/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/04/2004
Transporter 1 Decal:	Not reported
Transporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06230421
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Hand Code: Not reported

Manifest Code: NJA5013119  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDF EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Manifest Code: NJA5013120  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDF EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013121

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDF EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 06/04/2004  
Transporter 1 Decal: Not reported  
Transporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013122  
EPA ID: NYR000124560

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Date Shipped: 06/04/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NYD986969947  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013123  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

TSDf EPA ID:	NJD991291105
Transporter EPA ID:	NJR000029967
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/04/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDf Received Waste:	06/04/2004
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDf EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06230421
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported
Manifest Code:	NJA5013124
EPA ID:	NYR000124560
Date Shipped:	06/04/2004
TSDf EPA ID:	NJD991291105

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter EPA ID:	NJR000029967
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/04/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDf Received Waste:	06/04/2004
Transporter 1 Decal:	Not reported
Transporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDf EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06230421
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported
Manifest Code:	NJA5013125
EPA ID:	NYR000124560
Date Shipped:	06/04/2004
TSDf EPA ID:	NJD991291105
Transporter EPA ID:	NYD986969947



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013126  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NYD986969947  
Transporter 2 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013127  
EPA ID: NYR000124560  
Date Shipped: 06/04/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NYD986969947  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/04/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/04/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013128  
EPA ID: NYR000124560  
Date Shipped: 06/07/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/07/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/07/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013129  
EPA ID: NYR000124560  
Date Shipped: 06/07/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/07/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/07/2004
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06230421
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported
Manifest Code:	NJA5013130
EPA ID:	NYR000124560
Date Shipped:	06/07/2004
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000029967
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/07/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/07/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013131  
EPA ID: NYR000124560  
Date Shipped: 06/07/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/07/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/07/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013132  
EPA ID: NYR000124560  
Date Shipped: 06/07/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/07/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/07/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

Manifest Code: NJA5013133  
EPA ID: NYR000124560  
Date Shipped: 06/07/2004  
TSDf EPA ID: NJD991291105  
Transporter EPA ID: NJR000029967  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Date Trans1 Transported Waste: 06/07/2004  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/07/2004  
Tranporter 1 Decal: Not reported  
Tranporter 2 Decal: Not reported  
Generator EPA Facility Name: Not reported  
Transporter-1 EPA Facility Name: Not reported  
Transporter-2 EPA Facility Name: Not reported  
Transporter-3 EPA Facility Name: Not reported  
Transporter-4 EPA Facility Name: Not reported  
Transporter-5 EPA Facility Name: Not reported  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: 06230421  
Reference Manifest Number: Not reported  
Was Load Rejected (Y/N): No  
Reason Load Was Rejected: Not reported  
Waste Code: Not reported  
Manifest Year: Not reported  
Quantity: Not reported  
Unit: Not reported  
Hand Code: Not reported

**NY MANIFEST:**

EPA ID: NYR000124560  
Country: USA  
Mailing Name: POTAMKIN DEVELOPMENT CO LLC  
Mailing Contact: CURT SCHMIDT  
Mailing Address: 798 11TH AVE  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10019  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-675-3225

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Document ID: NJA5013114  
Manifest Status: Not reported  
Trans1 State ID: S50010  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 54900  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013115  
Manifest Status: Not reported  
Trans1 State ID: S50010  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 49440  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013116  
Manifest Status: Not reported  
Trans1 State ID: 550010  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 00020  
Units: Y - Cubic yards\* (.85 tons)  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013117  
Manifest Status: Not reported  
Trans1 State ID: Not reported  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 52720  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013118  
Manifest Status: Not reported  
Trans1 State ID: 089151  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 71020  
Units: P - Pounds  
Number of Containers: 001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013119  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 67380  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013120  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 54260  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013121  
Manifest Status: Not reported  
Trans1 State ID: 089151

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 69200  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013122  
Manifest Status: Not reported  
Trans1 State ID: S50010  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 42800  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013123  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Trans2 EPA ID: Not reported  
TSDF ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 56440  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013124  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSDF ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 58100  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013125  
Manifest Status: Not reported  
Trans1 State ID: S50010  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSDF ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 42420  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Year: 2004

Document ID: NJA5013126  
Manifest Status: Not reported  
Trans1 State ID: S50010  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 50700  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013127  
Manifest Status: Not reported  
Trans1 State ID: S50010  
Trans2 State ID: Not reported  
Generator Ship Date: 06/04/2004  
Trans1 Recv Date: 06/04/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/04/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NYD986969947  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 48280  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013128  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/07/2004  
Trans1 Recv Date: 06/07/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/07/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 62760  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013129  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/07/2004  
Trans1 Recv Date: 06/07/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/07/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 53160  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013130  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/07/2004  
Trans1 Recv Date: 06/07/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/07/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: MOR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Quantity: 57680  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013131  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/07/2004  
Trans1 Recv Date: 06/07/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/07/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 64300  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Document ID: NJA5013132  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/07/2004  
Trans1 Recv Date: 06/07/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/07/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 58800  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW YORK AUTO MALL SITE (Continued)**

**1007371391**

Document ID: NJA5013133  
Manifest Status: Not reported  
Trans1 State ID: 50181  
Trans2 State ID: Not reported  
Generator Ship Date: 06/07/2004  
Trans1 Recv Date: 06/07/2004  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/07/2004  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000124560  
Trans1 EPA ID: NJR000029967  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 62120  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DT - Dump trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2004

[Click this hyperlink](#) while viewing on your computer to access 20 additional NY\_MANIFEST: record(s) in the EDR Site Report.

R134 POTAMKIN NEW YORK LP  
SW 2495 2ND AVE  
1/8-1/4 NEW YORK, NY 10035  
0.211 mi.  
1114 ft. Site 11 of 12 in cluster R

NY UST U004046805  
N/A

Relative:  
Higher

UST:  
Id/Status: 2-609429 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2015/06/01  
UTM X: 590040.59010000003  
UTM Y: 4517584.4602800002  
Site Type: Auto Service/Repair (No Gasoline Sales)

Actual:  
11 ft.

Affiliation Records:  
Site Id: 31273  
Affiliation Type: On-Site Operator  
Company Name: POTAMKIN NEW YORK LP  
Contact Type: Not reported  
Contact Name: GEORGE SPALLINA  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 433-1700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**U004046805**

Date Last Modified: 3/10/2010  
  
Site Id: 31273  
Affiliation Type: Emergency Contact  
Company Name: POTAMKIN  
Contact Type: Not reported  
Contact Name: DAVE PELLENER, PE  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (914) 882-6074  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/10/2010

Site Id: 31273  
Affiliation Type: Facility Owner  
Company Name: POTAMKIN  
Contact Type: CEO  
Contact Name: GEORGE J. SPALLINA  
Address1: 2495 2ND AVE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035  
Country Code: 001  
Phone: (212) 433-1700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/10/2010

Site Id: 31273  
Affiliation Type: Mail Contact  
Company Name: POTAMKIN DEVELOPMENT  
Contact Type: Not reported  
Contact Name: GEORGE J. SPALLINA  
Address1: 2495 2ND AVE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035  
Country Code: 001  
Phone: (212) 433-1700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/10/2010

Tank Info:

Tank Number: 001  
Tank ID: 67407

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**U004046805**

Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/31/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
I00 - Overfill - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 002  
Tank ID: 67408  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
I00 - Overfill - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

POTAMKIN NEW YORK LP (Continued)

U004046805

C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 003  
Tank ID: 67409  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
J00 - Dispenser - None  
I00 - Overfill - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)  
H00 - Tank Leak Detection - None

Tank Number: 004  
Tank ID: 67410  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

POTAMKIN NEW YORK LP (Continued)

U004046805

A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
J00 - Dispenser - None  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 005  
Tank ID: 67411  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
I00 - Overfill - None

Tank Number: 006  
Tank ID: 67412  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**U004046805**

Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J00 - Dispenser - None

Tank Number: 007  
Tank ID: 67413  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
I00 - Overfill - None  
J00 - Dispenser - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 008  
Tank ID: 67414  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**U004046805**

Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
H00 - Tank Leak Detection - None  
J00 - Dispenser - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 009  
Tank ID: 67415  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I00 - Overfill - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 010  
Tank ID: 67416  
Tank Status: Closed - Removed  
Material Name: Closed - Removed



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**U004046805**

Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)  
I00 - Overfill - None

Tank Number: 011  
Tank ID: 67417  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
J00 - Dispenser - None  
I00 - Overfill - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)  
H00 - Tank Leak Detection - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**U004046805**

Tank Number: 012  
Tank ID: 67418  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)  
I00 - Overfill - None

Tank Number: 013  
Tank ID: 67419  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 1050  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
I00 - Overfill - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

POTAMKIN NEW YORK LP (Continued)

U004046805

G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground

Tank Number: 014  
Tank ID: 67420  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: Not reported  
Date Tank Closed: 10/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
I00 - Overfill - None

R135  
SW  
1/8-1/4  
0.211 mi.  
1114 ft.

POTAMKIN NEW YORK LP  
2495 2ND AVE  
NEW YORK, NY 10035  
Site 12 of 12 in cluster R

NY AST A100349511  
N/A

Relative:  
Higher

AST:

Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-609429  
Program Type: PBS  
UTM X: 590040.59010000003  
UTM Y: 4517584.46028000002  
Expiration Date: 2015/06/01  
Site Type: Auto Service/Repair (No Gasoline Sales)

Actual:  
11 ft.

Affiliation Records:

Site Id: 31273  
Affiliation Type: On-Site Operator  
Company Name: POTAMKIN NEW YORK LP  
Contact Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**A100349511**

Contact Name: GEORGE SPALLINA  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 433-1700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/10/2010

Site Id: 31273  
Affiliation Type: Emergency Contact  
Company Name: POTAMKIN  
Contact Type: Not reported  
Contact Name: DAVE PELLENER, PE  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (914) 882-6074  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/10/2010

Site Id: 31273  
Affiliation Type: Facility Owner  
Company Name: POTAMKIN  
Contact Type: CEO  
Contact Name: GEORGE J. SPALLINA  
Address1: 2495 2ND AVE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035  
Country Code: 001  
Phone: (212) 433-1700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/10/2010

Site Id: 31273  
Affiliation Type: Mail Contact  
Company Name: POTAMKIN DEVELOPMENT  
Contact Type: Not reported  
Contact Name: GEORGE J. SPALLINA  
Address1: 2495 2ND AVE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**A100349511**

Country Code: 001  
Phone: (212) 433-1700  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 3/10/2010

Tank Info:

Tank Number: 001A  
Tank Id: 233280  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
J00 - Dispenser - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
G02 - Tank Secondary Containment - Vault (w/access)  
I02 - Overfill - High Level Alarm  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None  
F01 - Pipe External Protection - Painted/Asphalt Coating  
G09 - Tank Secondary Containment - Modified Double-Walled  
(Aboveground)  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None  
K00 - Spill Prevention - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 06/01/2002  
Capacity Gallons: 1000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 03/10/2010  
Material Name: Waste Oil/Used Oil

Tank Number: 002A  
Tank Id: 233281  
Material Code: 0015  
Common Name of Substance: Motor Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
I02 - Overfill - High Level Alarm  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

POTAMKIN NEW YORK LP (Continued)

A100349511

G02 - Tank Secondary Containment - Vault (w/access)  
J02 - Dispenser - Suction Dispenser  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None  
F01 - Pipe External Protection - Painted/Asphalt Coating  
G09 - Tank Secondary Containment - Modified Double-Walled  
(Aboveground)  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 06/01/2005  
Capacity Gallons: 280  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 03/10/2010  
Material Name: Motor Oil

Tank Number: 003A  
Tank Id: 233282  
Material Code: 0015  
Common Name of Substance: Motor Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None  
F01 - Pipe External Protection - Painted/Asphalt Coating  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
G02 - Tank Secondary Containment - Vault (w/access)  
J02 - Dispenser - Suction Dispenser  
I02 - Overfill - High Level Alarm  
G09 - Tank Secondary Containment - Modified Double-Walled  
(Aboveground)  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 06/01/2001  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**POTAMKIN NEW YORK LP (Continued)**

**A100349511**

Last Modified: 03/10/2010  
Material Name: Motor Oil  
  
Tank Number: 004A  
Tank Id: 233283  
Material Code: 0021  
Common Name of Substance: Transmission Fluid

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
G02 - Tank Secondary Containment - Vault (w/access)  
J02 - Dispenser - Suction Dispenser  
C01 - Pipe Location - Aboveground  
E00 - Piping Secondary Containment - None  
F01 - Pipe External Protection - Painted/Asphalt Coating  
I02 - Overfill - High Level Alarm  
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 06/01/2005  
Capacity Gallons: 500  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 03/10/2010  
Material Name: Transmission Fluid

S136  
WNW  
1/8-1/4  
0.212 mi.  
1120 ft.

**DSNY M DISTRICT 10 GARAGE  
110 EAST 131ST STREET  
NEW YORK, NY 10037**

**NY AST U003074865  
N/A**

**Site 1 of 5 in cluster S**

Relative:  
Higher

AST:  
Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-455849  
Program Type: PBS  
UTM X: 589788.80578000005  
UTM Y: 4518068.6668100003  
Expiration Date: 2018/12/06  
Site Type: Municipality (Incl. Waste Water Treatment Plants,

Actual:  
11 ft.

Affiliation Records:  
Site Id: 20070

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U003074865**

Affiliation Type: On-Site Operator  
Company Name: DSNY M DISTRICT 10 GARAGE  
Contact Type: Not reported  
Contact Name: GARAGE SUPERVISOR  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 862-7427  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 11/18/2013

Site Id: 20070  
Affiliation Type: Emergency Contact  
Company Name: NYC DEPT. OF SANITATION  
Contact Type: Not reported  
Contact Name: BUREAU OF CLEANING AND COLLECTION  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (646) 885-5051  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 5/8/2013

Site Id: 20070  
Affiliation Type: Mail Contact  
Company Name: NYC DEPT. OF SANITATION  
Contact Type: Not reported  
Contact Name: A/C G. CARANNANTE  
Address1: 125 WORTH STREET  
Address2: ROOM 823B  
City: NEW YORK  
State: NY  
Zip Code: 10013  
Country Code: 001  
Phone: (646) 885-4856  
EMail: GCARANN@DSNY.NYC.GOV  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 12/16/2013

Site Id: 20070  
Affiliation Type: Facility Owner  
Company Name: AKRI CORPORATION  
Contact Type: DIC  
Contact Name: JOHN C  
Address1: 2350 FIFTH AVE  
Address2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U003074865**

City: NEW YORK  
State: NY  
Zip Code: 10037  
Country Code: 001  
Phone: (646) 423-9200  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 11/18/2013

Tank Info:

Tank Number: 007  
Tank Id: 36317  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
A00 - Tank Internal Protection - None  
K00 - Spill Prevention - None  
L00 - Piping Leak Detection - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 12/01/1983  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 06/14/2010  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 07/23/2010  
Material Name: Waste Oil/Used Oil

Tank Number: 011  
Tank Id: 36321  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U003074865**

C00 - Pipe Location - No Piping  
 F00 - Pipe External Protection - None  
 G00 - Tank Secondary Containment - None  
 E00 - Piping Secondary Containment - None  
 H00 - Tank Leak Detection - None  
 I00 - Overfill - None  
 B00 - Tank External Protection - None  
 K00 - Spill Prevention - None

Tank Location: 1  
 Tank Type: Steel/Carbon Steel/Iron  
 Tank Status: Closed - In Place  
 Pipe Model: Not reported  
 Install Date: 12/01/1983  
 Capacity Gallons: 285  
 Tightness Test Method: NN  
 Date Test: Not reported  
 Next Test Date: Not reported  
 Date Tank Closed: 09/22/2009  
 Register: True  
 Modified By: NRLOMBAR  
 Last Modified: 10/23/2009  
 Material Name: Waste Oil/Used Oil

**S137**  
**WNW**  
**1/8-1/4**  
**0.212 mi.**  
**1120 ft.**

**DSNY M DISTRICT 10 GARAGE**  
**110 EAST 131ST STREET**  
**NEW YORK, NY 10037**  
**Site 2 of 5 in cluster S**

**NY UST** **U004063786**  
**N/A**

**Relative:**  
**Higher**  
  
**Actual:**  
**11 ft.**

UST:  
 Id/Status: 2-455849 / Active  
 Program Type: PBS  
 Region: STATE  
 DEC Region: 2  
 Expiration Date: 2018/12/06  
 UTM X: 589788.80578000005  
 UTM Y: 4518068.6668100003  
 Site Type: Municipality (Incl. Waste Water Treatment Plants,  
 Affiliation Records:  
 Site Id: 20070  
 Affiliation Type: On-Site Operator  
 Company Name: DSNY M DISTRICT 10 GARAGE  
 Contact Type: Not reported  
 Contact Name: GARAGE SUPERVISOR  
 Address1: Not reported  
 Address2: Not reported  
 City: Not reported  
 State: NN  
 Zip Code: Not reported  
 Country Code: 001  
 Phone: (212) 862-7427  
 EMail: Not reported  
 Fax Number: Not reported  
 Modified By: MSBAPTIS  
 Date Last Modified: 11/18/2013

Site Id: 20070

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Affiliation Type: Emergency Contact  
Company Name: NYC DEPT. OF SANITATION  
Contact Type: Not reported  
Contact Name: BUREAU OF CLEANING AND COLLECTION  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (646) 885-5051  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 5/8/2013

Site Id: 20070  
Affiliation Type: Mail Contact  
Company Name: NYC DEPT. OF SANITATION  
Contact Type: Not reported  
Contact Name: A/C G. CARANNANTE  
Address1: 125 WORTH STREET  
Address2: ROOM 823B  
City: NEW YORK  
State: NY  
Zip Code: 10013  
Country Code: 001  
Phone: (646) 885-4856  
EMail: GCARANN@DSNY.NYC.GOV  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 12/16/2013

Site Id: 20070  
Affiliation Type: Facility Owner  
Company Name: AKRI CORPORATION  
Contact Type: DIC  
Contact Name: JOHN C  
Address1: 2350 FIFTH AVE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10037  
Country Code: 001  
Phone: (646) 423-9200  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 11/18/2013

Tank Info:

Tank Number: 0001  
Tank ID: 226380  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 2500

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Install Date: 11/01/2006  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Equivalent technology  
Material Code: 2710  
Common Name of Substance: Biodiesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: D  
Modified By: MSBAPTIS  
Last Modified: 11/18/2013

Equipment Records:

- F04 - Pipe External Protection - Fiberglass
- K01 - Spill Prevention - Catch Basin
- A00 - Tank Internal Protection - None
- J02 - Dispenser - Suction Dispenser
- L09 - Piping Leak Detection - Exempt Suction Piping
- I03 - Overfill - Automatic Shut-Off
- B04 - Tank External Protection - Fiberglass
- L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
- D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
- G04 - Tank Secondary Containment - Double-Walled (Underground)
- C02 - Pipe Location - Underground/On-ground
- H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
- I02 - Overfill - High Level Alarm
- E04 - Piping Secondary Containment - Double-Walled (Underground)

Tank Number: 0002  
Tank ID: 226746  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 2500  
Install Date: 11/01/2006  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Equivalent technology  
Material Code: 2710  
Common Name of Substance: Biodiesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: D  
Modified By: MSBAPTIS  
Last Modified: 11/18/2013

Equipment Records:

- A00 - Tank Internal Protection - None
- J02 - Dispenser - Suction Dispenser
- L09 - Piping Leak Detection - Exempt Suction Piping
- F04 - Pipe External Protection - Fiberglass
- K01 - Spill Prevention - Catch Basin

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

I03 - Overfill - Automatic Shut-Off  
E04 - Piping Secondary Containment - Double-Walled (Underground)  
B04 - Tank External Protection - Fiberglass  
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 0003  
Tank ID: 226747  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 2500  
Install Date: 11/01/2006  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Equivalent technology  
Material Code: 2712  
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: D  
Modified By: MSBAPTIS  
Last Modified: 11/18/2013

Equipment Records:

I03 - Overfill - Automatic Shut-Off  
F04 - Pipe External Protection - Fiberglass  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
B04 - Tank External Protection - Fiberglass  
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring  
E04 - Piping Secondary Containment - Double-Walled (Underground)  
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 004  
Tank ID: 36314  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 5000  
Install Date: 12/01/1983  
Date Tank Closed: 04/01/2003  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser

Tank Number: 005  
Tank ID: 36315  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 12/01/1983  
Date Tank Closed: 11/01/1999  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0013  
Common Name of Substance: Lube Oil

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
C02 - Pipe Location - Underground/On-ground  
G00 - Tank Secondary Containment - None

Tank Number: 006  
Tank ID: 36316  
Tank Status: Closed - Removed  
Material Name: Closed - Removed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Capacity Gallons: 550  
Install Date: 12/01/1983  
Date Tank Closed: 08/01/2000  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0013  
Common Name of Substance: Lube Oil

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
G00 - Tank Secondary Containment - None  
H00 - Tank Leak Detection - None

Tank Number: 008  
Tank ID: 36318  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: 12/01/1983  
Date Tank Closed: 08/01/2000  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 9999  
Common Name of Substance: Other

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I00 - Overfill - None  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
B00 - Tank External Protection - None  
A00 - Tank Internal Protection - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Tank Number: 009  
Tank ID: 36319  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 12/01/1983  
Date Tank Closed: 12/01/1983  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 9999  
Common Name of Substance: Other

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
H00 - Tank Leak Detection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I00 - Overfill - None  
G00 - Tank Secondary Containment - None  
B00 - Tank External Protection - None

Tank Number: 010  
Tank ID: 36320  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: 12/01/1983  
Date Tank Closed: 08/01/2000  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0012  
Common Name of Substance: Kerosene [#1 Fuel Oil] (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

J02 - Dispenser - Suction Dispenser  
H00 - Tank Leak Detection - None  
I00 - Overfill - None  
B00 - Tank External Protection - None

Tank Number: 014  
Tank ID: 66298  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 5000  
Install Date: 06/01/2003  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: 0  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 11/18/2013

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)  
B09 - Tank External Protection - Urethane  
C03 - Pipe Location - Aboveground/Underground Combination  
I03 - Overfill - Automatic Shut-Off  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
F05 - Pipe External Protection - Jacketed  
E04 - Piping Secondary Containment - Double-Walled (Underground)

Tank Number: 015  
Tank ID: 66299  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 550  
Install Date: 05/01/2003  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: 0  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Tightness Test Method: NN  
Date Test: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 11/18/2013

Equipment Records:

F04 - Pipe External Protection - Fiberglass  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
B09 - Tank External Protection - Urethane  
I03 - Overfill - Automatic Shut-Off  
J00 - Dispenser - None  
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
E04 - Piping Secondary Containment - Double-Walled (Underground)

Tank Number: 1  
Tank ID: 36311  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 2000  
Install Date: 12/01/1991  
Date Tank Closed: 07/11/2006  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 12/26/2008

Equipment Records:

F01 - Pipe External Protection - Painted/Asphalt Coating  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J01 - Dispenser - Pressurized Dispenser  
I04 - Overfill - Product Level Gauge (A/G)  
C02 - Pipe Location - Underground/On-ground  
F02 - Pipe External Protection - Original Sacrificial Anode  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
B02 - Tank External Protection - Original Sacrificial Anode  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Tank ID: 36312  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 2000  
Install Date: 12/01/1991  
Date Tank Closed: 07/11/2006  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 12/26/2008

Equipment Records:

B02 - Tank External Protection - Original Sacrificial Anode  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
C02 - Pipe Location - Underground/On-ground  
F02 - Pipe External Protection - Original Sacrificial Anode  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J01 - Dispenser - Pressurized Dispenser  
I04 - Overfill - Product Level Gauge (A/G)  
F01 - Pipe External Protection - Painted/Asphalt Coating

Tank Number: 3  
Tank ID: 36313  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 1080  
Install Date: 12/01/1991  
Date Tank Closed: 07/11/2006  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 12/26/2008

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)  
C02 - Pipe Location - Underground/On-ground

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

F02 - Pipe External Protection - Original Sacrificial Anode  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
B02 - Tank External Protection - Original Sacrificial Anode  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
F01 - Pipe External Protection - Painted/Asphalt Coating  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J01 - Dispenser - Pressurized Dispenser  
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 4  
Tank ID: 58571  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 1000  
Install Date: 09/01/2001  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0010  
Common Name of Substance: Hydraulic Oil

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 11/18/2013

Equipment Records:

F04 - Pipe External Protection - Fiberglass  
K01 - Spill Prevention - Catch Basin  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
B04 - Tank External Protection - Fiberglass  
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring  
C03 - Pipe Location - Aboveground/Underground Combination  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
E04 - Piping Secondary Containment - Double-Walled (Underground)

Tank Number: 5  
Tank ID: 58572  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 1000  
Install Date: 09/01/2001  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DSNY M DISTRICT 10 GARAGE (Continued)**

**U004063786**

Tank Type: Fiberglass coated steel  
Material Code: 0015  
Common Name of Substance: Motor Oil

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 11/18/2013

Equipment Records:

B04 - Tank External Protection - Fiberglass  
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
E04 - Piping Secondary Containment - Double-Walled (Underground)  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
F04 - Pipe External Protection - Fiberglass  
K01 - Spill Prevention - Catch Basin  
C03 - Pipe Location - Aboveground/Underground Combination

**T138**  
**West**  
**1/8-1/4**  
**0.213 mi.**  
**1123 ft.**

**CONED**  
**129 E 22 ST AND LEXINGTON AVE**  
**NEW YORK, NY 10010**  
**Site 1 of 3 in cluster T**

**NY MANIFEST** **S109825139**  
**N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYP004176855  
Country: USA  
Mailing Name: CONED  
Mailing Contact: CONED  
Mailing Address: 4 IRVING PLACE  
Mailing Address 2: ROOM 818  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

**Actual:**  
**12 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-07-02  
Trans1 Recv Date: 2009-07-02  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-07-06  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004176855

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONED (Continued)**

**S109825139**

Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDf ID: NJD002200046  
Waste Code: Not reported  
Quantity: 8000.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 001083703GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-07-02  
Trans1 Recv Date: 2009-07-02  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-07-06  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004176855  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDf ID: NJD002200046  
Waste Code: Not reported  
Quantity: 8000.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 001083703GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONED (Continued)**

**S109825139**

Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

**S139**  
**WNW**  
**1/8-1/4**  
**0.213 mi.**  
**1124 ft.**

**NYC DEPT OF SANITATION**  
**M-10 110 E 131ST ST**  
**NEW YORK, NY 10037**

**RCRA NonGen / NLR**

**1000140983**  
**NYD981483431**

**Site 3 of 5 in cluster S**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**10 ft.**

Date form received by agency: 01/01/2007  
Facility name: NYC DEPT OF SANITATION  
Facility address: M-10 110 E 131ST ST  
NEW YORK, NY 10037  
EPA ID: NYD981483431  
Mailing address: 58TH ST  
WOODSIDE, NY 11377  
Contact: JOSEPH SCHIAVONE  
Contact address: 58TH ST  
WOODSIDE, NY 11377  
Contact country: US  
Contact telephone: (212) 862-7427  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NEW YORK CITY  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NEW YORK CITY  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYC DEPT OF SANITATION (Continued)**

**1000140983**

Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: NYC DEPT OF SANITATION  
Classification: Not a generator, verified

Date form received by agency: 04/15/1986  
Facility name: NYC DEPT OF SANITATION  
Classification: Small Quantity Generator

Violation Status: No violations found

**S140**  
**WNW**  
**1/8-1/4**  
**0.213 mi.**  
**1124 ft.**

**MANHATTAN EAST 10 DOS -DDC**  
**110 EAST 131ST STREET**  
**MANHATTAN, NY**  
**Site 4 of 5 in cluster S**

**NY LTANKS** **S104510350**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**10 ft.**

Site ID: 274271  
Spill Number/Closed Date: 9709777 / Not Reported  
Spill Date: 11/19/1997  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: AXDORONO  
Referred To: QMR (11/14/13) REVIEWED  
Reported to Dept: 11/19/1997  
CID: 282  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 5  
Date Entered In Computer: 11/21/1997  
Spill Record Last Update: 12/5/2013  
Spiller Name: LOUIS CASANOVA  
Spiller Company: NYC DEPT OF SANITATION  
Spiller Address: 110 EAST 131 STREET  
Spiller City,St,Zip: MANHATTAN, NY 10004-  
Spiller County: 001  
Spiller Contact: LOUIS CASANOVA  
Spiller Phone: (212) 837-8372  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 270621



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHATTAN EAST 10 DOS -DDC (Continued)**

**S104510350**

DEC Memo:

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "KOLLEENY" TRANSFERRED FROM Y.KRIMGOLD TO KOLLEENY TO I.ISLAM5/3/05- The site's soil & GW are currently under remediation by LiRo Engineers by injecting bio-nutrient(through 24 wells) and Iso-Gen Oxygen (through 8 wells). Reviewed the quarterly site monitoring report (Nov./04-Jan./05). Initially, vacuum track was also used to remove Free Product from wells which was followed by bio-nutrient injection. Relative to baseline sampling data, significant improvement in GW quality has been achieved so far in almost all site wells. Installation of ORC socks has been recommended via email for the wells showing persistently high level of Total VOC concentration. Soil investigation is done annually and groundwater quarterly. All wells are found free from Free Product. Installed the quarterly report in the eDoc Folder. - 11/29/05- Reviewed the Feb.- May/05 monitoring report. Overall GW contamination improved compared to the baseline sampling conducted in 2003. Recent data exhibit low hetero-trophic bacteria count in some of the wells even though DO and other biotreatment parameters are reasonable. The next soil sampling is planned for October 2005. Oxygen delivery system running and site monitoring will continue. Installed the report in the eDoc folder.- 11/1/29/05- Reviewed the Jun-Aug/05 site monitoring report dt. Sept. 30/05. The final injection of bio-nutrient occurred in April 21/04. In addition, oxygen supplement through delivery wells started with eight delivery wells have now been reduced to four wells down the road due to failure of the Iso-Gen well controllers. ORC socks were also installed in wells LW-9 and LW-19 in Jan/05 and wells LW-5 and LW-15 in May/05. No free product has been observed recently. August/05 GW sampling results exhibit mixed results as TVOCs concentrations increased at some wells(particularly at LW-10) while decreased at others. But overall significant improvement is observed compared to the baseline samplings conducted in 2003. The consultant LiRo is supposed to resample well LW-10 to evaluate the sudden discrepancy. The proposed upcoming soil sampling plan by LiRo is hereby approved with two additional borings to be advanced adjacent to LW-14 and LW-19. Filed the report in the EDoc folder.- 03/08/06: this spill transferred from I. Islam to Q. Abidi.4/19/06: Reviewed Quarterly Monitoring report Sept. 2005 - Dec. 2005. Six groundwater samples were taken on December 28, 2005 during monitoring. Analytical data show four groundwater samples are still contaminated. Free product was not observed during monitoring. Soil samples were taken on December 20, 2005. Two new soil borings were made, LW-9 and LW-11 data shows TVOCs are very high. Only two of five planned soil borings were completed.. LiRo recommends postponing completion of the other soil borings for about six months. They also recommend continuing oxygen delivery system and monitoring at the site. Sent an e-mail to DDC and consultants on 4/19/06 approving these recommendations, and suggesting that the new CM (URS) review all data and evaluate the site to recommend a future course of action. - QA08/18/06: Transferred to S.Kraszewski. According to the URS Bi-monthly update report on June 9, 2006 URS collected GW samples. VOC analysis revealed no VOCs above GW quality criteria except in LW-09. - SK10/27/06 Spill case transferred from S. Kraszewski to J. Maisonave. - JAM12/8/06 Reviewed the Revised Remedial Strategy Report submitted by URS dated November 17, 2006. Site Summary: On Jan. 27, 2003 the DEC approved a remedial strategy by Liro to inject a bio-nutrient slurry and to install the Iso-Gen Oxygen Delivery System (uses a low capacity pump and

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electrolytic cell to dissociate water into hydrogen and oxygen) on eight wells. In Jan 2005 the number of oxygen delivery wells was reduced to four due to failure of the well controllers. Consequently, Liro installed ORC socs in the other four wells between Jan and May 2005. The bio-nutrient slurry was injected into twenty-four injection wells between Nov 2003 and Apr 2004. URS was retained as the site manager in Mar 2006 and provided this revised remedial strategy because the manufacturer of the Iso-Gen Oxygen Delivery System had gone out of business and continued operation and maintenance of the system requires monthly replacement of the electrolytic cells. URS proposes implementing chemical oxidation followed by enhanced bioremediation if warranted in lieu of the currently approved remedial strategy. RegenOx will be injected in 10 wells at a rate of 200lbs per injection well with injections occurring once a month for 4 months. Additionally, URS proposes advancing 4 soil borings near the previously detected vadose zone soil contamination at monitoring well LW-06 to determine if remedial measures are required. Report uploaded to eDocs. -JAM1/10/07 Meeting with DDC and URS. Verbally approved Revised Remedial Strategy. - JAM1/19/07 Reviewed UST Closure Report submitted by James McCullah Co., Inc. dated Nov. 2006. DDC contracted to remove two 2,000-gallon diesel oil tanks and one 1,000-gallon Gasoling tank. The tanks were removed on July 11, 2006. All three tanks were steel, five-foot diameter, double-walled tanks buried approx. four feet below grade. Tanks were found to be in good condition. All piping was also removed. Five end-point soil samples were collected from between 7'-12' below grade and analyzed for VOCs and SVOCs. Groundwater was not encountered before reaching bedrock at 11 feet below grade. No signs of contamination were observed, through olfactory and PID screening. Some VOCs were detected however, no detections were above TAGM. SVOCs in sample 1 were the only detections above TAGM. Report uploaded to eDocs. - JAM8/17/07 Reviewed Soil Sampling Results Report dated July 31, 2007 submitted by URS. On June 12, 2007, URS advanced four soil borings near monitoring well LW-06. Two soil samples were collected from each and the analytical results showed no VOCs detected above TAGM. On May 1, and 2, 2007, URS collected groundwater samples from 16 monitoring wells. Five wells were inaccessible or dry and could not be sampled. VOCs were non-detectable in eight wells. VOC exceedences were detected in wells with concentrations ranging from 16ppb in well LW-06 to 2,018ppb in well LW-10. Elevated concentrations persist in wells LW-10 and LW-20. Conclusions: Soil analytical show that no VOCs exceed TAGM. However, elevated PID readings were detected during the screening of soil samples, which contradict sample results. URS attributes this to the hot humid weather, which may have affected the PID readings. Petroleum odors were not observed from the soil. Minor SVOCs exceeded TAGM, attributed to urban fill. URS proposes chemical oxidation to address dissolved phase contamination observed. URS will prepare a bid package and perform this work. I expect a remedial summary report when work is completed. Report uploaded to eDocs. - JAM11/18/08 Reviewed System Performance Report for Monitoring Period July through September 2008 submitted by URS dated October 24, 2008. Franklin was contracted by URS to install the injections wells and on August 1, August 29 and October 10, 2008 completed three rounds of RegenOx injections. Thirty-three injection wells were installed and in each of the three injection rounds, 140lbs of RegenOx and 100 gallons of water was applied in each well. URS collected groundwater samples monthly between July and September, 2008. URS states that

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groundwater samples show improvement after the RegenOx injection and recommends continuing groundwater monitoring monthly while the injections are still occurring. URS anticipates Franklin will perform the next injections in December 2008. The report is uploaded to eDocs. - JAM10/19/09 Reviewed the System Performance Report for Monitoring Period October through December 2008 submitted by URS dated February 18, 2009. On December 18, 2008, URS collected groundwater samples from eight wells in the monitoring program. Analytical results showed total VOC concentrations ranging from 43ppb in LW-19 to 4,502ppb in LW-14. Compared with results from the previous sampling event in September 2008, three wells showed decreased total VOCs and four wells showed increased total VOCs. URS states, "After three rounds of RegenOx injections, the groundwater analytical data show fluctuating contaminant concentrations... Franklin is expected to perform a fourth round of injections in March 2009. URS will continue to monitor groundwater quality." This report is uploaded to eDocs. - JAM11/18/09 Reviewed System Performance Report through 3rd Quarter 2009 submitted by URS dated October 6, 2009. The report summarizes four rounds of RegenOx injections and 2 rounds of groundwater sampling, which occurred after the injections. The four rounds of injections occurred on August 1, August 28, October 14 of 2008 and February 27, 2009. On June 10, and September 17, 2009, URS collected groundwater samples from 12 of the 13 monitoring wells. Well LW-12 was inadvertently missed in June and well LW-20 was dry in September. NO VOCs were detected above GWQS in wells LW-02, LW-04, LW-07, LW-12, and MW-01. The remaining wells had total VOC concentrations ranging from 166ppb in LW-19 to 7,291ppb in LW-14. URS states that the "rebound" effect is attributed to the desorption of contaminants from soils in the northeast portion of the site. This corresponds to the conclusion presented in the ISRP by LIRO submitted in 2002, which noted contamination in the northeast portion of the site that could be attributed to the heating oil system or an unknown source. URS will perform soil sampling in the northeast portion of the site in November of 2009. No RegenOx injections are scheduled. URS is also considering using a stronger oxidant like sodium persulfate. The report is uploaded to eDocs. - JAM6/9/10 Reviewed the System Performance Report through 4th Quarter 2009 submitted by URS dated February 5, 2010. URS conducted groundwater sampling on December 16 and 17, 2009 and results showed VOC concentrations ranging from 100 ppb in LW-10 to 2,938 ppb in LW-14. URS has performed 4 rounds of ChemOx injections and the results of groundwater monitoring after injections initially showed improvement. According to URS, it appears rebound is occurring in the northeast portion and the source may be from contamination adsorbed on the soil in the smear-zone dissolving into the groundwater. In November 2009, URS performed a limited soil investigation in the northeast portion of the site and found contamination in 5 soil samples collected just above and below the water table in that area (groundwater is at 10ft below grade). URS proposes additional RegenOx injections into existing injection wells to target two areas; the area near wells LW-3 and LW-6, and the other area near borings SB-08, SB-09, SB-10, and SB-11. They also propose installing ORC socks in wells BN-03 and BN-08, located along the sidewalk along 131st Street. Report uploaded to eDocs. I called and left a message with Kevin Shanahan today to discuss the status of the out of service fuel oil tank in the northeast portion of the site. - JAM6/10/10 Spoke to Kevin Shanahan at URS. I searched the PBS Registration (PBS #

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2-455849) and found that a 5,000-gallon #2 Fuel Oil UST is listed as "In Service." I asked Kevin to have the tank inspected and if it is in fact out of service, then the tank should be closed and the PBS registration updated. Perhaps the tank should be removed as it may be a source for contamination found in soil and groundwater. If so then contaminated soil should be excavated and the source removed prior to implementing another round of ChemOx injections. He agreed and will get back to me after URS inspects the tank. The latest groundwater sampling report will be issued and when Kevin gets back to me after the tank inspection, I will write a response with DEC's requirements to DDC. - JAM10/25/10 In the quarterly status update meeting with the DDC and URS on 10/19/10, URS said that the results from the site reconnaissance was submitted in the report dated September 30th. URS will propose additional ChemOx injections to treat residual dissolved phase contamination under a separate letter. - JAM11/05/2010: This spill case was transferred to A. Doronova. - AD02/17/2011: Had a quarterly meeting with DDC and URS. Discussed the proposed 5th round of RegenOx injections. Since the previous rounds did not indicate significant improvements in GW quality, asked URS to do USTs inventarization and find out if it is feasible to remove closed-in-place USTs which are acting as a continuous sources of contamination according to a GW contamination plume map. Put RegenOx injection proposal on hold, till the requested info will be submitted to DEC. AD02/18/2011: Received a Remediation Performance Report, submitted by URS Corporation (URS) and dated February 15, 2011. The report presents groundwater sampling results and states that some of the site's monitoring wells showed elevated levels of VOCs and that one well (LW-20) exhibited free product during the last monitoring round. Based on the data, URS recommends an additional round of RegenOx injections in two areas of the site. Will wait for USTs info before making decision. AD03/07/2011: Received a call from K. Shanahan of URS regarding feasibility of removal of USTs in question from the site. He said that there are some issues with their removal. Told him that then these areas should be investigated further and long-term remediation will be required. Also he insisted on implementation of RegenOx injections since it was already approved by DDC and they have contractor ready to perform it. Told him that previous rounds of injection did not show significant improvement, and that they should consider different compound for injections. I said that they can submit their proposal for RegenOx application for my review. Later received an e-mail from K. Shanahan saying: "Ainura, Thank you for taking some time this morning to discuss the latest developments for this site. Here is a basic summary of our discussions: 1. URS informed DEC that removal of the closed-in-place 4,000-gallon heating oil UST is not considered feasible due to structural concerns of the adjacent elevator. DEC indicated that if this tank cannot be removed, it may result in a long-term remediation project since any source areas associated with this tank would remain. 2. URS informed DEC that removal of the six closed-in-place 550-gallon USTs is complicated by the presence of the new diesel and gasoline supply piping and electrical conduit running directly over the closed tanks. DEC requested that URS consider protecting the lines and removing the tanks. If the lines are damaged during construction, they could be repaired. URS preliminarily agreed and will arrange for the UST removal in this area. 3. URS requested that DEC approve the limited Regenox Injection Plan URS prepared in December 2010 (see attached). The design is complete and the

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contractor has been procured for this work. DEC reiterated that they did not feel the four Regenox applications have resulted in significant VOC reductions but they would consider the request to complete this addition work. DEC also suggested that URS look at alternative bioremediation technologies for this site. In summary, URS will have the six closed-in-place 550-gallon USTs removed and DEC will review the attached plan for limited Regenox Injections. If possible DEC will provide URS an approval to move forward. Thanks, Kevin J. Shanahan Project Manager URS Corporation 77 Goodell Street Buffalo, New York 14203716-923-1215

Reviewed the attached scope of work where URS proposes implement additional round of RegenOx injections in two areas of the site, using ten existing injection wells. Free product will be removed from the affected well (LW-20) before beginning the injections. A summary report with conclusions and recommendations will be provided to DEC.

AD03/10/2011: Discussed this proposal with J. Kolleeny of DEC.  
AD03/11/2011: Issued and sent an approval letter with the following comment: "If the RegenOx application is not effective in reducing VOC levels, an alternative remediation approach should be proposed for the site." DL the letter to eDocs.  
AD07/31/2011: Received a 1st quarter monitoring report for 2011. DI to eDocs. Will review.  
AD08/25/2011: received an e-mail from Kevin saying: "Ainura, Closed in-place USTs are being removed today, tomorrow and possibly on Monday depending upon utility complications. Kevin J. Shanahan Project Manager URS Corporation 77 Goodell Street Buffalo, New York 14203716-923-1215"

AD08/19/2011: Reviewed the report. It states that the most recent remedial action conducted at the Manhattan East 10 facility involved using RegenOx™ injections to treat dissolved phase groundwater contamination. Four rounds of injections were completed between August 1, 2008 and February 27, 2009. After the four rounds of RegenOx™ injections, the groundwater analytical data continue to show fluctuating contaminant concentrations. The groundwater sampling for the first quarter of 2011 was completed on March 7 and 8, 2011. The samples were analyzed for petroleum related volatile organic compounds (VOCs) using USEPA Method SW 8260. Samples were collected from wells LW-02, LW-03, LW-04, LW-06, LW-07, LW-09 (IW-22), LW-10 (IW-21), LW-12, LW-14, LW-15, LW-19 and MW-01. LW-20 was not sampled because product was detected in the well. The measured quantity of product in the well was 0.03 feet. The analytical results showed no VOCs exceeded the NYSDEC GQS in wells LW-02, LW-04, LW-06, LW-07, LW-12, and MW-01. The remaining six wells exhibited several VOCs above the NYSDEC Groundwater Quality Criteria, with total VOC concentrations ranging from 96 ppb in LW-09 to 3,510 ppb in LW-14. The most recent groundwater results support URS' recommendations for additional RegenOx™ injections and the installation of ORCr socks as outlined in previous quarterly monitoring reports. URS anticipates that removal of the six USTs will be completed in September 2011. Upon approval from NYSDEC to inject additional RegenOx™ in accordance with the December 2010 submittal, URS will proceed with additional RegenOx™ injections to address residual groundwater contamination in accordance with the Scope of Work already provided to NYSDEC. URS will continue groundwater monitoring on a quarterly basis. Since product has been detected in LW-20 for three consecutive quarters, a petroleum absorbent sock will be installed in this well during the next sampling event. - URS' recommendations for additional RegenOx™ injections and the installation of ORCr socks were approved by DEC back in March of 2011. AD12/01/2011: Received 2nd quarter 2011

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monitoring report. DL to eDocs. Will review. AD01/17/2012: Reviewed the report. It states that on August 26, 2011, Franklin removed the five 550-gallon USTs, along with the tank encasement and fill material. Since the removal of the 350-gallon UST may have posed a threat to the structural integrity of the building above it, it was not removed. No environmental impacts were noted during the UST removal work. Analytical results for soil samples collected following removal of these tanks will be submitted in the next quarterly report. Following the removal of the five USTs, URS is making plans to implement the next round of RegenOx™ injections. The injection work plan proposes that 60 pounds of oxidant (Part A), 30 pounds of activator (Part B), and 120 gallons of water will be injected into wells IW-02, IW-03, IW-04, IW-07, and IW-10, all located in the area where the tanks were removed. In the more contaminated northeast area of the site, the work plan proposes injecting 120 pounds of oxidant, 60 pounds of activator, and 240 gallons of water into injection wells IW-06, IW-29, IW-30, IW-31, IW-32, and IW-33. The groundwater sampling for the second quarter of 2011 was completed on June 13 and 14, 2011. All wells were sampled except for LW-20 since product was found in this well at a thickness of 0.01 feet. The depth to groundwater at the site ranges from approximately 7 to 11' bgs. The predominant flow direction is to the east and northeast. The analytical results showed no VOCs exceeded the NYSDEC Standards in wells LW-02, LW-04, LW-06, LW-12, and MW-01. In well LW-07, MTBE was the only VOC detected, at 17 ppb. The remaining six wells exhibited several VOCs above the NYSDEC Groundwater Quality Criteria, with TVOCs ranging from 31 ppb in LW-09 to 3,884 ppb in LW-14. After four rounds of RegenOx™ injections, the groundwater analytical data showed fluctuating contaminant concentrations. URS concludes that future RegenOx™ treatments would address the higher level contamination that remains in the downgradient area, especially given the fact that the 4,000-gallon closed in-place heating oil tank and any associated contaminated soil cannot be removed via excavation. URS will continue to perform groundwater monitoring on a quarterly basis. The most recent groundwater results support URS' recommendations for additional RegenOx™ injections and the installation of ORCr socks as outlined in previous quarterly monitoring reports. URS is preparing to conduct the next round of injections in accordance with the December 2010 scope of work. No DEC response or approval is needed. AD02/08/2012: Received a third quarter 2011 monitoring report. DL to eDocs. Will review. AD03/13/2012: Reviewed the report. It states that groundwater sampling for the third quarter of 2011 was completed on September 7 and 8, 2011. All wells were sampled except for LW-03 because of an obstruction in the well, and LW-20 since product was found in this well at a thickness of 0.01 feet. The obstruction in well LW-03 has since been removed. The depth to groundwater at the site ranges from approximately 7 to 11' bgs. The predominant flow direction is to the east and northeast. The depth to bedrock at this site ranges from 9 feet in the southern part of the site to more than 20 feet in the west-central and northern portions of the site. Minor quantities of product have been detected in monitoring well LW-20 for the past several groundwater sampling events. During the June 2011 event, a petroleum absorbent sock was installed in this well to collect product. During the September 2011 site visit, the sock was replaced. URS will continue to monitor product and replace the absorbent sock in this well as necessary. The analytical result from this sampling event showed no exceedance of any NYSDEC Standards for VOCs in wells

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LW-02, LW-04, LW-07, LW-12, and MW-01. There were no VOCs detected in samples collected from wells LW-02, LW-07, and MW-01; in LW-04 and LW-12 only MTBE was detected. In well LW-06, n-propyl benzene was the only VOC that exceeded the standards at 6 ppb as compared to a criterion of 5 ppb. The remaining five wells exhibited two or more VOCs above the standards, with TVOCs ranging from 14 ppb in LW-09 to 2,332 ppb in LW-14. URS concludes that VOC-impacted groundwater and saturated soils remain in the eastern half of the site. URS recommends installation of five additional groundwater monitoring wells and analysis of soil and groundwater samples in this area to better delineate the extent of soil, groundwater and free product impacts. Based on the groundwater data obtained over the past few years, URS sure that the remediation by chemical oxidation has had a positive effect. Therefore, URS intends to implement additional RegenOx injections once the new wells have been installed and the extent of the VOC impacts has been refined. Summary: The report presents groundwater sampling results and states that significant groundwater impacts remain in the eastern part of the site. Based on the data, URS recommends further delineation of the groundwater contaminant plume via installation of five monitoring wells, with collection of soil and groundwater samples, followed by an additional application of chemical oxidant in this area of the site. A summary report with conclusions and recommendations will be provided to DEC. To issue an approval letter. AD03/14/2012: Issued and sent the approval letter to A. Samani of DDC with the following comment: " If the additional RegenOx application is not effective in reducing VOC levels, an alternative remedial approach should be proposed for the site." DL pdf copy of the letter to eDocs. AD06/13/2012: Received 4th Quarter 2011 and 1st Quarter 2012 Monitoring Reports. DL pdf copy to eDocs. Will review. AD07/26/2012: Reviewed the report. It states that the 13 wells are currently included in the quarterly groundwater monitoring program: LW-02, LW-03, LW-04, LW-06, LW-07, LW-09 (IW-22), LW-10 (IW-21), LW-12, LW-14, LW-15, LW-19, LW-20, and MW-01. Groundwater sampling for the fourth quarter of 2011 was completed on December 12, 2011. The groundwater sampling for the first quarter of 2012 was completed on March 5 and 6, 2012. During both sampling events, all wells were sampled except for LW-20, which currently contains a petroleum-absorbent sock and typically contains free product. For the first quarter 2012, the analytical results showed that no VOCs exceeded the Standards in 5 wells: LW-02, LW-04, LW-07, LW-12 and MW-01. In well LW-06, only n-propylbenzene was detected above criteria at 8ppb as compared to a criterion of 5 ppb. The remaining 6 wells: (LW-03, LW-09, LW-10, LW-14, LW-15 and LW-19) exhibited several VOCs above the NYSDEC Groundwater Quality Criteria; the most contaminated well was LW-14, with TVOCs of 3,299 ppb. The remaining wells exhibited TVOCs ranging from 17 ppb in LW-09 to 776 ppb in LW-15. URS states that analysis of recent groundwater sampling data indicates that moderate VOC concentrations persist in the northeastern part of the site. According to URS, the existing monitoring well network is not sufficient to delineate this plume. Therefore, URS has elected to install four additional monitoring wells in this area to be included in the quarterly monitoring program. URS has scheduled the new well installation for June 2012. The work plan for wells installation was approved by DEC in March 1012. URS also intends to implement additional RegenOx injections once the new wells have been installed and the extent of the VOC impacts has been refined. In an email dated March 14, 2012, the NYSDEC

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approved this recommendation. The NYSDEC also suggested that other remedial alternatives be considered for the site if the additional RegenOx application is unsuccessful. URS will continue to monitor groundwater on a quarterly basis, and will implement the delineation and remediation strategies identified above. AD12/05/2012: Received 2nd and 3rd Quarter of 2012 Monitoring Reports. DL pdf copy to eDocs. Will review. AD01/28/2013: Reviewed the report. It states that Associated Environmental Service (Associated) installed monitoring wells MW-02 through MW-05 from June 18 through 22, and October 1 and 2, 2012 under URS supervision. A total of four soil samples were collected during installation of the monitoring wells (MW-02 through MW-05). VOCs were detected above NYSDEC Soil Cleanup criteria in the shallower sample depth at MW-2(9-10'- 37,580ppb) and MW-03(7.5-8.5'-104,100ppb) locations. Recent analytical data indicates that both of these samples were collected close to depth of the groundwater table at the site. Groundwater Sampling data: The wells currently included in the quarterly groundwater monitoring program are: LW-02, LW-03, LW-04, LW-06, LW-07, LW-09, LW-10, LW-12, LW-14, LW-15, LW-19, LW-20, and MW-01 through MW-05. The GW samples are analyzed for petroleum related VOCs using United States Environmental Protection Agency (USEPA) Method SW 8260. The depth to groundwater at the site ranges from approximately 8 to 11 feet bgs. The predominant flow direction is to the east and northeast. The depth to bedrock at this site ranges from 9 feet in the southern part of the site to more than 20 feet in the west-central and northern portions of the site. The groundwater sampling for the second quarter of 2012 was completed on June 4 and 5, 2012 except for newly-installed monitoring well MW-03 which was developed and sampled on July 23, 2012. The third quarter sampling event was conducted on August 28, 2012. During both the second and third quarter sampling events, monitoring well LW-20 was not sampled because it contains a petroleum absorbent sock and typically contains free product. Wells MW-02 and MW-04 also were not sampled during the either quarter because installation of these two wells was completed after the sampling events. Well MW-05 was not sampled in the second quarter event because it was found to be dry; this well was sampled in the third quarter. For the third quarter sampling event on August 28, 2012, the analytical results showed that no VOCs exceeded the NYSDEC Groundwater Quality Standards in 9 monitoring wells: LW-02, LW-04, LW-06, LW-07, LW-09, LW-10, LW-12, MW-01, and MW-05. The five monitoring wells with exceedances of the criteria exhibited total VOCs ranging from 65 ppb in LW-19 to 2,161 ppb in LW-14. Results from this most recent sampling event generally were in the same range as the results from the previous event in June. Based on recent trends in groundwater sampling data and soil sampling completed during removal of five 550-gallon closed in place USTs in August 2011, URS states that it appears that the groundwater impacts historically detected in the western half of the site have been successfully remediated by chemical oxidation. In the western half of the site, only well LW-03 continues to exhibit minor VOC contamination. The last quarterly report of 2009 presented the results of a soil sampling program that showed significant soil contamination in the saturated zone in the northeast corner of the site and recommended additional injection of RegenOx for treatment. In an email dated March 14, 2012, the NYSDEC approved this recommendation. Based on those soil sampling results, as well as data collected during the recent installation of four additional GW monitoring wells in this area, URS prepared a work plan for the



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injections to be implemented in fourth quarter 2012. URS will continue quarterly GW monitoring at the site. AD04/09/2013: Received an e-mail from K. Schanahan of URS with attached GW monitoring Report and a Scope of Work for Additional Round of RegenOx Injection saying the following: "Ainura, During the last project status meeting we discussed the Manhattan East 10 site operated by the New York City Sanitation Department. Based on our discussions it was decided that URS would send you the Work Order for the next Regenox Injection event for your review and approval. Specifically, I believe you wanted to look at the proposed injection locations and quantities. The Work Order is attached. Please let us know if this is acceptable as soon as possible since our contractor is ready to initiate construction. We have also attached the latest monitoring report which was posted to the website today for reference. Please note the favorable groundwater concentrations for the recent sampling event. Kevin J. Shanahan Senior Project Manager URS Corporation" Received a phone call from Kevin Schanahan of URS. He asked to expedite the approval of the work plan. Reviewed the work plan. It states that RegenOx injections were successful in reducing VOCs levels in site monitoring wells, but says that some of the site's monitoring wells still indicated elevated levels of VOCs and that one well (LW-20) exhibited free product sheen during the last monitoring round. Based on the data, URS recommends performing an additional round of RegenOx injections targeting the northeast area of the site, via thirty injection points. Free product will be removed from the affected well before beginning the injections. A summary report with conclusions and recommendations will be provided to DEC. 04/10/2013: Issued and sent an approval letter to A. Samani. DL pdf copy of the letter to eDocs. AD04/12/2013: Received hard copy of the Groundwater Monitoring and Remediation Report for 4th Quarter 2012 and 1st Quarter 2013. DL to eDocs. Will review. AD05/28/2013: Reviewed the report. It states that in September 2012, URS issued a Work Order to conduct RegenOx injections via direct-push injection borings at 14 locations in the northeast corner of the site. Figure 4 shows the actual injected locations both inside the building and in the sidewalk. The injections were conducted from the bottom of the boring progressing upward; the injection interval for each boring extended from bedrock or refusal up to 8 feet below ground surface (bgs) or until the reagents begin to daylight from the boring. The goal was to inject 30 pounds of Part A RegenOx, 30 pounds of Part B RegenOx and 100 gallons of water into each vertical foot of the injected interval. The first three injection borings were conducted on October 22, 2012 as a preliminary event to determine how easily the borings could be installed, how much material was likely to be injected at each location, and how much daylighting or other issues could be expected. The remainder of the injections were completed in the period from January 15 through 21, 2013. The table below summarizes the actual injection intervals and quantities for each of the 13 borings that were completed. Overall, the actual quantity of 1,410 pounds of Part A RegenOx injected during this event was within the target range of 1,260 and 2,100 pounds determined during the design. Based on the apparent improvement in groundwater quality as a result of the recent RegenOx event URS intends to implement additional injection events in the second quarter of 2013. Groundwater sampling: The wells currently included in the quarterly groundwater monitoring program are: LW-02, LW-03, LW-04, LW-06, LW-07, LW-09, LW-10, LW-12, LW-14, LW-15, LW-19, LW-20, and MW-01 through MW-05. The groundwater sampling for the

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**S104510350**

fourth quarter of 2012 was completed on November 26 and 27, 2012; the first quarter 2013 sampling event was completed on February 13 and 14, 2013. Monitoring well LW-20 was not sampled during either event because it contained a heavy sheen of free product. Monitoring well LW-15 was not sampled during the first quarter 2013 because it was blocked by a car. For the most recent sampling event on February 13 and 14, 2013, the analytical results showed that no VOCs exceeded the NYSDEC Groundwater Quality Standards in monitoring wells LW-02, LW-04, LW-06, LW-07, LW-12, LW-14, MW-01, MW-04 and MW-05. In addition, monitoring wells LW-03, LW-09, and LW-19 each only exceeded the criterion for one or two compounds and had low total VOC concentrations of 33 ppb, 8 ppb, and 24 ppb, respectively. The highest total VOC concentration was in well MW-02 with 739 ppb total VOCs. After the RegenOx injections completed in 2008-2009, the groundwater analytical data showed favorable results in the western half of the site and uncertain results in the eastern half of the site which is located further downgradient. wells in the western area of the site such as LW-03 and LW-06 initially showed an increase in concentration following the first RegenOx injections in 2008 and 2009, but are now consistently low. Based on these results, it appears that the contaminant concentrations in this area have been reduced to trace amounts and it is likely that no further remedial actions will be required in this area. Chemical oxidation was particularly successful at monitoring well LW-10 where the total VOC concentrations prior to RegenOx injections ranged between 1,000 ppb and 6,000 ppb and now are consistently below 100 ppb. Conclusions: URS states that based on recent trends in groundwater sampling data, it appears that the groundwater impacts historically detected in the western half of the site have been successfully remediated by chemical oxidation. In the western half of the site, only well LW-03 continues to exhibit minor VOC contamination. The soil sampling completed during removal of five 550-gallon closed in place USTs in August 2011, also indicated that there were no soil impacts in this area. In the eastern half of the site, total VOC concentrations have been relatively consistent for the past several years. However, following a round of chemical oxidation injections completed in October 2012 and January 2013, the most recent monitoring results indicate significant reductions in total VOC concentrations in several of the most contaminated wells. Future monitoring events will indicate whether the reductions observed are sustained and how many additional injection events may be required to achieve remediation goals. Based on the current status of the site, the remedial actions, and the most recent groundwater monitoring data, URS recommends the following: - Continue to conduct additional RegenOx injection events in the northeast area of the site, as warranted. As requested by the NYSDEC at the last quarterly meeting, URS will submit the proposed scope of work for the next RegenOx injection to the NYSDEC for review. - Continue the quarterly groundwater monitoring and sampling. AD11/14/2013: Received hard copy of the Groundwater Monitoring and Remediation Report for 2nd and 3rd Quarters of 2013. DL to eDocs. Will review. AD12/05/2013: Reviewed the report. It states that in April 2013, URS issued Work Order R-84-02 for one round of RegenOx injections to be conducted at the site. The work order proposed injection borings at a total of 30 locations following the same methodology and target injection quantities as the prior scope of work (30 pounds Part A and B RegenOx and 100 pounds of water per foot). The injections were completed between April 30 and June 4,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHATTAN EAST 10 DOS -DDC (Continued)**

**S104510350**

2013. Injections were successfully completed at 16 of the proposed locations; injection could not be completed at several locations due to overhead obstructions that limited access with the equipment; the remainder of the proposed injections could not be completed due to refusal encountered during installation. The depth to groundwater at the site ranges from approximately 8 to 11 feet bgs. The predominant flow direction is to the east and northeast, although there is considerable variability across the site. The depth to bedrock at this site ranges from 9 feet in the southern part of the site to more than 20 feet in the west-central and northern portions of the site. URS performs quarterly groundwater monitoring to document the progress of the remedial activities at this site. The wells currently included in the quarterly groundwater monitoring program are: LW-02, LW-03, LW-04, LW-06, LW-07, LW-09, LW-10, LW-12, LW-14, LW-15, LW-19, LW-20, and MW-01 through MW-05. The groundwater sampling for the second quarter of 2013 was completed on May 6 and 7, 2013; the third quarter 2013 sampling event was completed on July 29 and 30, 2013. All of the wells currently in the groundwater monitoring program were sampled during both events. For the most recent sampling event on July 29 and 30, 2013, the analytical results showed that no VOCs exceeded the NYSDEC Groundwater Quality Standards in 10 monitoring wells: LW-02, LW-04, LW-06, LW-07, LW-09, LW-12, LW-19, MW-01, MW-04 and MW-05. The highest total VOCs were in wells LW-14 with 8,671 ppb and LW-20 with 3,092 ppb. In the remaining wells, the total VOC concentrations ranged from 33 ppb to 873 ppb. Minor quantities of product have been detected in monitoring well LW-20 over the past year. A petroleum absorbent sock was installed in the well in June 2011 and replaced approximately every six months as it became saturated. In an effort to flush the product from the well, URS redeveloped the well in May 2013 by pumping 100 gallons of water from the well. The sock and development water were disposed of off-site. During the two subsequent sampling events, product has not been detected in this well, or any other monitoring wells. The report states that over 25,000 pounds of RegenOx has been injected into the saturated zone over the past five years to oxidize petroleum-related VOCs in groundwater. Based on recent trends in groundwater sampling data, URS concludes that the groundwater impacts historically detected in the western half of the site have been successfully remediated by chemical oxidation. In the western half of the site, only wells LW-03 and LW-10 continue to exhibit minor VOC contamination. The soil sampling completed during removal of five 550-gallon closed in place USTs in August 2011 also indicated that there were no soil impacts in this area. In the eastern half of the site, total VOC concentrations in many of the wells show significant improvement following the recent implementation of RegenOx injections. There are however, several locations with elevated VOC concentrations that warrant additional remedial actions. Based on the current status of the site, the remedial actions, and the most recent groundwater monitoring data as summarized above, URS recommends the following: No additional investigations at this time. Conduct at least one additional RegenOx injection event in the northeast area of the site. Continue the quarterly groundwater monitoring and sampling. There are no proposals requiring DEC approval at this time.

AD

Remarks:

THEY DID A TEST ON THE TANK SYSTEM AND IT FAILED THE TEST. THE TANK IS NEW SO THEY SUSPECT IT IS THE PIPELINE SYSTEM. THIS IS THE AT DEPT SANITATION GARAGE.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHATTAN EAST 10 DOS -DDC (Continued)**

**S104510350**

Material:

Tank Test:

Site ID: 274271  
Spill Tank Test: 1545481  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

Site ID: 133280  
Spill Number/Closed Date: 0106036 / 9/23/2003  
Spill Date: 9/6/2001  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: MXTIPPLE  
Referred To: Not reported  
Reported to Dept: 9/6/2001  
CID: 390  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 9/6/2001  
Spill Record Last Update: 4/29/2005  
Spiller Name: UNK  
Spiller Company: NYC DEPT OF SANITATION .  
Spiller Address: 110 E131ST ST  
Spiller City,St,Zip: MANHATTAN, ZZ  
Spiller County: 001  
Spiller Contact: UNK  
Spiller Phone: (000) 000-0000  
Spiller Extention: 0  
DEC Region: 2  
DER Facility ID: 270621  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIPPLE"9/23/03 SEE SPILL # 99-13531 referred this spill # to existing open spill on the site.  
Remarks: tank failed test - no product spillage

Material:

Site ID: 133280  
Operable Unit ID: 843053  
Operable Unit: 01

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHATTAN EAST 10 DOS -DDC (Continued)**

**S104510350**

Material ID: 530919  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

**Tank Test:**

Site ID: 133280  
Spill Tank Test: 1526583  
Tank Number: Not reported  
Tank Size: 5000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

**SPILLS:**

Facility ID: 9913531  
Facility Type: ER  
DER Facility ID: 270621  
Site ID: 211658  
DEC Region: 2  
Spill Date: 2/29/2000  
Spill Number/Closed Date: 9913531 / 1/10/2007  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
  
SWIS: 3101  
Investigator: JAKOLLEE  
Referred To: Not reported  
Reported to Dept: 2/29/2000  
CID: 233  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2/29/2000  
Spill Record Last Update: 1/10/2007  
Spiller Name: Not reported  
Spiller Company: DEPT OF SANITATION #10  
Spiller Address: 110 EAST 131ST ST  
Spiller City,St,Zip: MANHATTEN, ZZ  
Spiller Company: 001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHATTAN EAST 10 DOS -DDC (Continued)**

**S104510350**

Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "KOLLEENY"9/23/03 SEE ALSO SPILL# 01-06036.TRANSFERRED FROM Y.KRIMGOLD.3/09/06: This spill transferred from I. Islam to Q. Abidi.05/18/06: This spill transferred from Q. Abidi to J. Kolleeny, priority ranking unknown. Spill seems to be related to out-of-service 5,000-gallon heating oil UST. - J. Kolleeny01/10/07: Met with DDC and URS, who state that area of heating oil UST will be addressed under spill no. 9709777. This spill case closed to consolidate. - J. Kolleeny  
Remarks: caller tokk soil samples in area of an abandoned tank results returned today are above limits caller is working LiRo engineering project manager is mr caggiano. SEE ALSO SPILL # 9513866.

Material:

Site ID: 211658  
Operable Unit ID: 1088059  
Operable Unit: 01  
Material ID: 295373  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9308006  
Facility Type: ER  
DER Facility ID: 270621  
Site ID: 274270  
DEC Region: 2  
Spill Date: 10/1/1993  
Spill Number/Closed Date: 9308006 / 10/1/1993  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: CAMMISA  
Referred To: Not reported  
Reported to Dept: 10/1/1993  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Local Agency  
Cleanup Ceased: 10/1/1993  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHATTAN EAST 10 DOS -DDC (Continued)**

**S104510350**

Date Entered In Computer: 10/4/1993  
Spill Record Last Update: 9/30/2004  
Spiller Name: Not reported  
Spiller Company: Not reported  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*Update\*\*\*, ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Not reported  
Remarks: GAGE MALFUNCTION - CONTAINED ON CONCRETE - CLEAN UP IS DONE.

Material:

Site ID: 274270  
Operable Unit ID: 986514  
Operable Unit: 01  
Material ID: 394249  
Material Code: 0008  
Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9513866  
Facility Type: ER  
DER Facility ID: 270621  
Site ID: 87278  
DEC Region: 2  
Spill Date: 1/31/1996  
Spill Number/Closed Date: 9513866 / 10/30/2003  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: JMKRIMGO  
Referred To: Not reported  
Reported to Dept: 1/31/1996  
CID: 252  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1/31/1996  
Spill Record Last Update: 7/7/2005  
Spiller Name: PETER CASLER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANHATTAN EAST 10 DOS -DDC (Continued)**

**S104510350**

Spiller Company: NYC SANITATION DEPT  
Spiller Address: 110 EAST 131ST ST  
Spiller City,St,Zip: NY NY, NY  
Spiller Company: 001  
Contact Name: PETER CASLER  
Contact Phone: (212) 703-3700  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "KRIMGOLD"  
Remarks: under ground tanks with unk petroleum or waste oil have caused soil to be contaminated-still under investigation. SAME AS SPILL # 9913531.

Material:  
Site ID: 87278  
Operable Unit ID: 1028348  
Operable Unit: 01  
Material ID: 357571  
Material Code: 0022  
Material Name: Waste Oil/Used Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**T141**  
**West**  
**1/8-1/4**  
**0.213 mi.**  
**1125 ft.**

**CON EDISON SERVICE BOX: 39265**  
**E 129TH ST & LEXINGTON AVE**  
**NEW YORK, NY 10035**

**RCRA NonGen / NLR** **1016450551**  
**NYP004295762**

**Site 2 of 3 in cluster T**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

Date form received by agency: 04/25/2013  
Facility name: CON EDISON SERVICE BOX: 39265  
Facility address: E 129TH ST & LEXINGTON AVE  
NEW YORK, NY 10035

**Actual:**  
**12 ft.**

EPA ID: NYP004295762  
Contact: JOSE MONTALVO  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (212) 427-1331  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON SERVICE BOX: 39265 (Continued)**

**1016450551**

Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Historical Generators:

Date form received by agency: 03/25/2013  
 Facility name: CON EDISON SERVICE BOX: 39265  
 Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

**T142**  
**West**  
**1/8-1/4**  
**0.213 mi.**  
**1125 ft.**

**CON EDISON**  
**LEXINGTON AVE & W 129TH ST**  
**NEW YORK, NY 10035**

**RCRA-CESQG**

**1014395662**  
**NYP004171278**

**Site 3 of 3 in cluster T**

**Relative:**  
**Higher**

RCRA-CESQG:

Date form received by agency: 06/08/2009  
 Facility name: CON EDISON  
 Facility address: LEXINGTON AVE & W 129TH ST  
 NEW YORK, NY 10035  
 EPA ID: NYP004171278  
 Mailing address: 4 IRVING PL, RM 828  
 NEW YORK, NY 10003  
 Contact: NEIL SKOW  
 Contact address: Not reported  
 Not reported  
 Contact country: Not reported  
 Contact telephone: (718) 204-4249  
 Contact email: Not reported  
 EPA Region: 02  
 Classification: Conditionally Exempt Small Quantity Generator  
 Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Actual:**  
**12 ft.**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

1014395662

Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

Q143  
NNE  
1/8-1/4  
0.213 mi.  
1127 ft.

252 E 137TH ST  
BRONX, NY 10451

Site 6 of 8 in cluster Q

EDR US Hist Auto Stat 1015365595  
N/A

Relative:  
Higher

EDR Historical Auto Stations:

Actual:  
19 ft.

Name: KABA EXPRESS AUTOBODY  
Year: 1999  
Address: 252 E 137TH ST

Name: BAH GENERAL AUTO REPAIR INC  
Year: 2002  
Address: 252 E 137TH ST

Name: BAH GENERAL AUTO REPAIR INC  
Year: 2003  
Address: 252 E 137TH ST

Name: BAH GENERAL AUTO REPAIR INC  
Year: 2004  
Address: 252 E 137TH ST

Name: BAH GENERAL AUTO REPAIR INC  
Year: 2005  
Address: 252 E 137TH ST

Name: BAH GENERAL AUTO REPAIR INC  
Year: 2006  
Address: 252 E 137TH ST

Name: BAH GENERAL AUTO REPAIR INC  
Year: 2009  
Address: 252 E 137TH ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

U144  
SSW  
1/8-1/4  
0.214 mi.  
1129 ft.

MTA NYCT - 2ND AVE SUBWAY 128TH ST YARD  
2485 2ND AVE  
NEW YORK, NY

RCRA-CESQG  
FINDS  
NY MANIFEST

1006817476  
NYR000115907

Site 1 of 7 in cluster U

Relative:  
Higher

RCRA-CESQG:

Date form received by agency: 01/01/2007

Facility name: MTA NYCT - 2ND AVE SUBWAY 128TH ST YARD

Facility address: 2485 2ND AVE  
NEW YORK, NY 10035

EPA ID: NYR000115907  
Mailing address: BROADWAY - 2ND FL  
NEW YORK, NY 10004

Contact: THOMAS A ABDALLAH  
Contact address: BROADWAY - 2ND FL  
NEW YORK, NY 10004

Contact country: US  
Contact telephone: (646) 252-3500

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: MTA NYCT  
Owner/operator address: UNKNOWN  
UNKNOWN, NY 99999

Owner/operator country: US  
Owner/operator telephone: (212) 555-1212

Legal status: State  
Owner/Operator Type: Operator  
Owner/Op start date: 12/31/1979  
Owner/Op end date: Not reported

Owner/operator name: MTA NYCT  
Owner/operator address: UNKNOWN  
UNKNOWN, NY 99999

Owner/operator country: US  
Owner/operator telephone: (212) 555-1212

Legal status: State  
Owner/Operator Type: Owner  
Owner/Op start date: 12/31/1979  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MTA NYCT - 2ND AVE SUBWAY 128TH ST YARD (Continued)**

**1006817476**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: MTA NYCT - 2ND AVE SUBWAY 128TH ST YARD  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/23/2003  
Facility name: MTA NYCT - 2ND AVE SUBWAY 128TH ST YARD  
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110014446457

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID: NYR000115907  
Country: USA  
Mailing Name: NYCTA  
Mailing Contact: N/S  
Mailing Address: 2 BROADWAY  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10004  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 646-252-3500

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MTA NYCT - 2ND AVE SUBWAY 128TH ST YARD (Continued)

1006817476

Document ID: NJA5098209  
Manifest Status: Not reported  
Trans1 State ID: NJD991291105  
Trans2 State ID: Not reported  
Generator Ship Date: 06/24/2003  
Trans1 Recv Date: 06/24/2003  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/24/2003  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000115907  
Trans1 EPA ID: NJD991291105  
Trans2 EPA ID: Not reported  
TSD ID: H03002  
Waste Code: F001 - UNKNOWN  
Quantity: 00200  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2003

Document ID: NJA5098283  
Manifest Status: Not reported  
Trans1 State ID: NJD991291105  
Trans2 State ID: Not reported  
Generator Ship Date: 06/27/2003  
Trans1 Recv Date: 06/27/2003  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 06/27/2003  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000115907  
Trans1 EPA ID: NJD991291105  
Trans2 EPA ID: Not reported  
TSD ID: H03002  
Waste Code: F001 - UNKNOWN  
Quantity: 00200  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00  
Year: 2003

U145  
SSW  
1/8-1/4  
0.214 mi.  
1129 ft.

2485 2ND AVE  
NEW YORK, NY 10035  
Site 2 of 7 in cluster U

EDR US Hist Auto Stat 1015360969  
N/A

Relative:  
Higher

EDR Historical Auto Stations:  
Name: EASTSIDE AUTO REPAIR  
Year: 1999  
Address: 2485 2ND AVE

Actual:  
11 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

1015360969

Name: EASTSIDE AUTO REPAIR  
Year: 2000  
Address: 2485 2ND AVE

Name: BASIC AUTO & TRUCK REPAIR  
Year: 2001  
Address: 2485 2ND AVE

Name: BASIC AUTO & TRUCK REPAIR  
Year: 2002  
Address: 2485 2ND AVE

Name: BASIC AUTO & TRUCK REPAIR  
Year: 2003  
Address: 2485 2ND AVE

Name: EAST SIDE AUTO REPAI  
Year: 2004  
Address: 2485 2ND AVE

Name: BASIC AUTO & TRUCK REPAIR  
Year: 2007  
Address: 2485 2ND AVE

Name: A STAR 24 HR COLLISION REPAIR  
Year: 2008  
Address: 2485 2ND AVE

Name: A STAR 24 HR COLLISION REPAIR  
Year: 2009  
Address: 2485 2ND AVE

Name: A STAR 24 HR COLLISION REPAIR  
Year: 2010  
Address: 2485 2ND AVE

Name: ADVANCE AUTO TOW N Y C  
Year: 2011  
Address: 2485 2ND AVE

Name: ADVANCE AUTO TOW N Y C  
Year: 2012  
Address: 2485 2ND AVE

Q146  
NNE  
1/8-1/4  
0.214 mi.  
1131 ft.

250 E 137TH ST  
BRONX, NY 10451  
Site 7 of 8 in cluster Q

EDR US Hist Auto Stat 1015362698  
N/A

Relative:  
Higher  
Actual:  
19 ft.

EDR Historical Auto Stations:  
Name: JOJANNA BROADWAY AUTO REPAIR  
Year: 1999  
Address: 250 E 137TH ST

Name: JOJANNA BROADWAY AUTO REPAIR  
Year: 2000  
Address: 250 E 137TH ST

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**(Continued)**

**1015362698**

Name:	JOJANNA BROADWAY AUTO REPAIR
Year:	2001
Address:	250 E 137TH ST
Name:	R & C AUTO REPAIR
Year:	2003
Address:	250 E 137TH ST
Name:	V & V AUTO REPAIRS & PARTS CTR
Year:	2004
Address:	250 E 137TH ST
Name:	R & C AUTO REPAIR
Year:	2005
Address:	250 E 137TH ST
Name:	RCR AUTO REPAIR INC
Year:	2006
Address:	250 E 137TH ST
Name:	JOJANNA BROADWAY AUTO REPAIR
Year:	2007
Address:	250 E 137TH ST
Name:	JOJANNA BROADWAY AUTO REPAIR
Year:	2008
Address:	250 E 137TH ST
Name:	RCR AUTO REPAIR INC
Year:	2009
Address:	250 E 137TH ST
Name:	JOJANNA BROADWAY AUTO REPAIR
Year:	2010
Address:	250 E 137TH ST
Name:	JOJANNA BROADWAY AUTO REPAIR
Year:	2011
Address:	250 E 137TH ST
Name:	JOJANNA BROADWAY AUTO REPAIR
Year:	2012
Address:	250 E 137TH ST

**Q147**  
**NNE**  
**1/8-1/4**  
**0.214 mi.**  
**1131 ft.**

**CITYWIDE CAR REPAIR INC.**  
**250 EAST 137TH STREET**  
**BRONX, NY 10456**  
**Site 8 of 8 in cluster Q**

**NY AST A100301636**  
**N/A**

**Relative:**  
**Higher**

AST:  
 Region: STATE  
 DEC Region: 2  
 Site Status: Active  
 Facility Id: 2-610510  
 Program Type: PBS  
 UTM X: 590393.10488  
 UTM Y: 4518283.0963300001

**Actual:**  
**19 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITYWIDE CAR REPAIR INC. (Continued)**

**A100301636**

Expiration Date: 2017/03/07  
Site Type: Other

**Affiliation Records:**

Site Id: 378141  
Affiliation Type: Facility Owner  
Company Name: CITYWIDE CAR REPAIR INC.  
Contact Type: PRESIDENT  
Contact Name: MOHAMMED SAEED  
Address1: 250 EAST 137TH ST  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10456  
Country Code: 001  
Phone: (718) 401-2959  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/7/2007

Site Id: 378141  
Affiliation Type: Mail Contact  
Company Name: CITYWIDE CAR REPAIR INC.  
Contact Type: Not reported  
Contact Name: MOHAMMED SAEED  
Address1: 250 EAST 137TH STREET  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10456  
Country Code: 001  
Phone: (718) 401-2959  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/7/2007

Site Id: 378141  
Affiliation Type: On-Site Operator  
Company Name: CITYWIDE CAR REPAIR INC.  
Contact Type: Not reported  
Contact Name: MOHAMMED SAEED  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 401-2959  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/7/2007

Site Id: 378141  
Affiliation Type: Emergency Contact  
Company Name: CITYWIDE CAR REPAIR INC.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITYWIDE CAR REPAIR INC. (Continued)**

**A100301636**

Contact Type: Not reported  
Contact Name: MOHAMMED SAEED  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 401-2959  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/7/2007

Tank Info:

Tank Number: 001  
Tank Id: 216256  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

B00 - Tank External Protection - None  
K00 - Spill Prevention - None  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
G01 - Tank Secondary Containment - Diking (Aboveground)  
D00 - Pipe Type - No Piping  
J00 - Dispenser - None  
I00 - Overfill - None  
L00 - Piping Leak Detection - None  
Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 02/01/1997  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: NRLOMBAR  
Last Modified: 03/07/2007  
Material Name: Waste Oil/Used Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

V148 CON EDISON  
WSW FO 168 E 128 ST  
1/8-1/4 NEW YORK, NY 10035  
0.214 mi.  
1132 ft. Site 1 of 2 in cluster V

NY MANIFEST S113816652  
N/A

Relative:  
Higher

NY MANIFEST:  
EPA ID: NYP004331146  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: CON EDISON  
Mailing Address: 4 IRVING PLACE 15TH FLOOR  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Actual:  
11 ft.

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: Not reported  
Generator Ship Date: 18-Jul-2013 00:00:00  
Trans1 Recv Date: 18-Jul-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 19-Jul-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004331146  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291105  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 002085357GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON (Continued)**

**S113816652**

Trans1 State ID: NJD003812047  
 Trans2 State ID: Not reported  
 Generator Ship Date: 18-Jul-2013 00:00:00  
 Trans1 Recv Date: 18-Jul-2013 00:00:00  
 Trans2 Recv Date: Not reported  
 TSD Site Recv Date: 19-Jul-2013 00:00:00  
 Part A Recv Date: Not reported  
 Part B Recv Date: Not reported  
 Generator EPA ID: NYP004331146  
 Trans1 EPA ID: Not reported  
 Trans2 EPA ID: Not reported  
 TSDF ID: NJD991291105  
 Waste Code: Not reported  
 Quantity: 500  
 Units: P - Pounds  
 Number of Containers: 1  
 Container Type: TT - Cargo tank, tank trucks  
 Handling Method: T Chemical, physical, or biological treatment.  
 Specific Gravity: 1  
 Year: 2013  
 Manifest Tracking Num: 002085357GBF  
 Import Ind: N  
 Export Ind: N  
 Discr Quantity Ind: N  
 Discr Type Ind: N  
 Discr Residue Ind: N  
 Discr Partial Reject Ind: N  
 Discr Full Reject Ind: N  
 Manifest Ref Num: Not reported  
 Alt Fac RCRA Id: Not reported  
 Alt Fac Sign Date: Not reported  
 Mgmt Method Type Code: H110

**U149**  
**SSW**  
**1/8-1/4**  
**0.215 mi.**  
**1134 ft.**

**CON EDISON**  
**E 127ST & 2ND AVE**  
**NEW YORK, NY 10035**  
**Site 3 of 7 in cluster U**

**RCRA-CESQG 1014395669**  
**NYP004171344**

**Relative:**  
**Higher**

RCRA-CESQG:  
 Date form received by agency: 06/08/2009  
 Facility name: CON EDISON  
 Facility address: E 127ST & 2ND AVE  
 NEW YORK, NY 10035  
 EPA ID: NYP004171344  
 Mailing address: 4 IRVING PL, RM 828  
 NEW YORK, NY 10003  
 Contact: NEIL SKOW  
 Contact address: Not reported  
 Not reported  
 Contact country: Not reported  
 Contact telephone: (718) 204-4249  
 Contact email: Not reported  
 EPA Region: 02  
 Classification: Conditionally Exempt Small Quantity Generator  
 Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar

**Actual:**  
**11 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON (Continued)**

**1014395669**

month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

Violation Status: No violations found

**U150**  
**SSW**  
**1/8-1/4**  
**0.215 mi.**  
**1134 ft.**

**NYCDOS EAST HARLEM MRF**  
**EAST 127TH AND 2ND AVENUE**  
**NEW YORK, NY 10004**  
**Site 4 of 7 in cluster U**

**NY SWRCY S105842297**  
**N/A**

**Relative:**  
**Higher**

SWRCY:  
 Region: 2  
 Facility Address 2: Not reported  
 Phone Number: 2128371071  
 Owner Type: Not reported  
 Owner Name: Not reported  
 Owner Address: Not reported  
 Owner Address 2: Not reported  
 Owner City,St,Zip: Not reported  
 Owner Email: Not reported  
 Owner Phone: Not reported  
 Contact Name: NYCDOS  
 Contact Address: Not reported  
 Contact Address 2: Not reported  
 Contact City,St,Zip: Not reported  
 Contact Email: Not reported  
 Contact Phone: Not reported  
 Activity Desc: RHRF - registration  
 Activity Number: [31M11]  
 Active: No  
 East Coordinate: Not reported

**Actual:**  
**11 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYCDOS EAST HARLEM MRF (Continued)**

**S105842297**

North Coordinate: Not reported  
Accuracy Code: Not reported  
Regulatory Status: Not reported  
Permit #: 2-6203-00013  
Auth. Date: Not reported  
Expiration Date: Not reported  
Waste Types: Not reported

**U151**  
**SSW**  
**1/8-1/4**  
**0.215 mi.**  
**1134 ft.**

**CON EDISON**  
**E 127TH ST & 2ND AVE**  
**NEW YORK, NY 10035**

**NY MANIFEST** **S116044158**  
**N/A**

**Site 5 of 7 in cluster U**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYP004405494  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: CON EDISON  
Mailing Address: 4 IRVING PLACE  
Mailing Address 2: 15TH FL  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: Not reported

**Actual:**  
**11 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: Not reported  
Generator Ship Date: 12-Dec-2013 00:00:00  
Trans1 Recv Date: 12-Dec-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 13-Dec-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004405494  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291105  
Waste Code: Not reported  
Quantity: 2500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 002299696GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S116044158**

Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

**W152**  
**North**  
**1/8-1/4**  
**0.216 mi.**  
**1141 ft.**

**SPILL NUMBER 9808791**  
**75 CANAL ST**  
**BRONX, NY**

**NY LTANKS** **S104619748**  
**N/A**

**Site 1 of 8 in cluster W**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**12 ft.**

Site ID: 163031  
Spill Number/Closed Date: 9808791 / 10/15/1998  
Spill Date: 10/13/1998  
Spill Cause: Tank Overfill  
Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: JXZHAO  
Referred To: Not reported  
Reported to Dept: 10/15/1998  
CID: 382  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 10/15/1998  
Spill Record Last Update: 10/16/1998  
Spiller Name: Not reported  
Spiller Company: ISLAND TRANSPORTATION  
Spiller Address: 299 EDISON AVE  
Spiller City,St,Zip: W.BABYLON, NY 11704-001  
Spiller Contact: SCOTT ALNWICK  
Spiller Phone: (718) 821-6900  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 137501  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ZHAO" SPILL CONTAINED AND CLEANED UP.  
Remarks: DRIVER WAS FILLING UP AN INGROUND TANK AND OVERFILL RESULTED. DILUTION WAS INITIATED AS WELL AS SPEEDY DRY WAS USED.

Material:

Site ID: 163031  
Operable Unit ID: 1066189  
Operable Unit: 01  
Material ID: 316277  
Material Code: 0009  
Material Name: Gasoline

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPILL NUMBER 9808791 (Continued)**

**S104619748**

Case No.: Not reported  
Material FA: Petroleum  
Quantity: 5  
Units: Gallons  
Recovered: 5  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**153**  
**East**  
**1/8-1/4**  
**0.217 mi.**  
**1147 ft.**

**370 E 134TH ST**  
**BRONX, NY 10454**

**EDR US Hist Auto Stat 1015453266**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**29 ft.**

EDR Historical Auto Stations:  
Name: RICKS CAR CARE  
Year: 2011  
Address: 370 E 134TH ST  
  
Name: RICKS CAR CARE  
Year: 2012  
Address: 370 E 134TH ST

**W154**  
**North**  
**1/8-1/4**  
**0.218 mi.**  
**1152 ft.**

**75 CSW REALTY LLC**  
**75 CANAL STREET WEST**  
**BRONX, NY 10451**  
**Site 2 of 8 in cluster W**

**NY UST U001842088**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**13 ft.**

UST:  
Id/Status: 2-601752 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2016/04/15  
UTM X: 590259.003860000006  
UTM Y: 4518360.3551599998  
Site Type: Trucking/Transportation/Fleet Operation  
  
Affiliation Records:  
Site Id: 23714  
Affiliation Type: Mail Contact  
Company Name: Not reported  
Contact Type: Not reported  
Contact Name: MICHAEL WANDERMAN  
Address1: 75 CANAL STREET WEST  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10451  
Country Code: 001  
Phone: (718) 993-8100  
Email: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**75 CSW REALTY LLC (Continued)**

**U001842088**

Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 6/26/2013

Site Id: 23714  
Affiliation Type: On-Site Operator  
Company Name: 75 CSW REALTY LLC  
Contact Type: Not reported  
Contact Name: EUGENE WEINGORTEN  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 993-8100  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 6/26/2013

Site Id: 23714  
Affiliation Type: Emergency Contact  
Company Name: 75 CSW REALTY LLC  
Contact Type: Not reported  
Contact Name: EUGENE HERMAN  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 993-8100  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 6/26/2013

Site Id: 23714  
Affiliation Type: Facility Owner  
Company Name: 75 CSW REALTY LLC  
Contact Type: COO  
Contact Name: MICHAEL WANDERMAN  
Address1: 75 CANAL ST  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10451  
Country Code: 001  
Phone: (718) 993-8900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 6/26/2013

Tank Info:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**75 CSW REALTY LLC (Continued)**

**U001842088**

Tank Number: 001  
Tank ID: 47698  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 01/01/1989  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: 00  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 06/27/2013

Equipment Records:

K01 - Spill Prevention - Catch Basin  
E00 - Piping Secondary Containment - None  
C02 - Pipe Location - Underground/On-ground  
F02 - Pipe External Protection - Original Sacrificial Anode  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
B02 - Tank External Protection - Original Sacrificial Anode  
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 002  
Tank ID: 47699  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 01/01/1989  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 06/27/2013

Equipment Records:

A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**75 CSW REALTY LLC (Continued)**

**U001842088**

- J02 - Dispenser - Suction Dispenser
- L09 - Piping Leak Detection - Exempt Suction Piping
- C02 - Pipe Location - Underground/On-ground
- F02 - Pipe External Protection - Original Sacrificial Anode
- H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
- I02 - Overfill - High Level Alarm
- K01 - Spill Prevention - Catch Basin
- E00 - Piping Secondary Containment - None
- B02 - Tank External Protection - Original Sacrificial Anode
- G04 - Tank Secondary Containment - Double-Walled (Underground)

**W155**  
**North**  
**1/8-1/4**  
**0.218 mi.**  
**1152 ft.**

**75 CSW REALTY LLC**  
**75 CANAL STREET WEST**  
**BRONX, NY 10451**

**NY AST**    **A100353021**  
**N/A**

**Site 3 of 8 in cluster W**

**Relative:**  
**Higher**

AST:

**Actual:**  
**13 ft.**

Region: STATE  
 DEC Region: 2  
 Site Status: Active  
 Facility Id: 2-601752  
 Program Type: PBS  
 UTM X: 590259.00386000006  
 UTM Y: 4518360.3551599998  
 Expiration Date: 2016/04/15  
 Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id: 23714  
 Affiliation Type: Mail Contact  
 Company Name: Not reported  
 Contact Type: Not reported  
 Contact Name: MICHAEL WANDERMAN  
 Address1: 75 CANAL STREET WEST  
 Address2: Not reported  
 City: BRONX  
 State: NY  
 Zip Code: 10451  
 Country Code: 001  
 Phone: (718) 993-8100  
 EMail: Not reported  
 Fax Number: Not reported  
 Modified By: MSBAPTIS  
 Date Last Modified: 6/26/2013

Site Id: 23714  
 Affiliation Type: On-Site Operator  
 Company Name: 75 CSW REALTY LLC  
 Contact Type: Not reported  
 Contact Name: EUGENE WEINGORTEN  
 Address1: Not reported  
 Address2: Not reported  
 City: Not reported  
 State: NN  
 Zip Code: Not reported  
 Country Code: 001  
 Phone: (718) 993-8100

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**75 CSW REALTY LLC (Continued)**

**A100353021**

EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 6/26/2013

Site Id: 23714  
Affiliation Type: Emergency Contact  
Company Name: 75 CSW REALTY LLC  
Contact Type: Not reported  
Contact Name: EUGENE HERMAN  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 993-8100  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 6/26/2013

Site Id: 23714  
Affiliation Type: Facility Owner  
Company Name: 75 CSW REALTY LLC  
Contact Type: COO  
Contact Name: MICHAEL WANDERMAN  
Address1: 75 CANAL ST  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10451  
Country Code: 001  
Phone: (718) 993-8900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 6/26/2013

Tank Info:

Tank Number: 003  
Tank Id: 235677  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
J02 - Dispenser - Suction Dispenser  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

75 CSW REALTY LLC (Continued)

A100353021

E00 - Piping Secondary Containment - None  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None  
Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1989  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 06/27/2013  
Material Name: Waste Oil/Used Oil  
  
Tank Number: 004  
Tank Id: 235678  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

E00 - Piping Secondary Containment - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
A00 - Tank Internal Protection - None  
J02 - Dispenser - Suction Dispenser  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None  
K00 - Spill Prevention - None  
Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1989  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 06/27/2013  
Material Name: Waste Oil/Used Oil  
  
Tank Number: 005  
Tank Id: 235679  
Material Code: 0015  
Common Name of Substance: Motor Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

75 CSW REALTY LLC (Continued)

A100353021

Equipment Records:

A00 - Tank Internal Protection - None  
J01 - Dispenser - Pressurized Dispenser  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
E00 - Piping Secondary Containment - None  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None  
K00 - Spill Prevention - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1989  
Capacity Gallons: 250  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 06/27/2013  
Material Name: Motor Oil

Tank Number: 006  
Tank Id: 235680  
Material Code: 0021  
Common Name of Substance: Transmission Fluid

Equipment Records:

A00 - Tank Internal Protection - None  
J01 - Dispenser - Pressurized Dispenser  
B01 - Tank External Protection - Painted/Asphalt Coating  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
E00 - Piping Secondary Containment - None  
D00 - Pipe Type - No Piping  
G00 - Tank Secondary Containment - None  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
L00 - Piping Leak Detection - None  
K00 - Spill Prevention - None

Tank Location: 2  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 01/01/1989  
Capacity Gallons: 250  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**75 CSW REALTY LLC (Continued)**

**A100353021**

Date Tank Closed: Not reported  
Register: True  
Modified By: MSBAPTIS  
Last Modified: 06/27/2013  
Material Name: Transmission Fluid

**W156  
North  
1/8-1/4  
0.218 mi.  
1152 ft.**

**GLENTIES LEASING CO  
75 CANAL ST W  
BRONX, NY**

**RCRA NonGen / NLR 1000322281  
FINDS NYD982738569**

**Site 4 of 8 in cluster W**

**Relative:  
Higher**

RCRA NonGen / NLR:

**Actual:  
13 ft.**

Date form received by agency: 01/01/2007  
Facility name: GLENTIES LEASING CO  
Facility address: 75 CANAL ST W  
BRONX, NY 104516417  
EPA ID: NYD982738569  
Mailing address: CANAL ST W  
BRONX, NY 10451  
Contact: Not reported  
Contact address: CANAL ST W  
BRONX, NY 10451  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: DOVER GARAGE  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: DOVER GARAGE  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GLENTIES LEASING CO (Continued)**

**1000322281**

Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: GLENTIES LEASING CO  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Facility name: GLENTIES LEASING CO  
Classification: Not a generator, verified

Date form received by agency: 07/13/1989  
Facility name: GLENTIES LEASING CO  
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004430893

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

X157  
South  
1/8-1/4  
0.220 mi.  
1161 ft.

**CON EDISON  
OPP 350 E 127 ST  
NEW YORK, NY 10029**

**NY MANIFEST S113495830  
N/A**

**Site 1 of 2 in cluster X**

Relative:  
Higher

NY MANIFEST:  
EPA ID: NYP004295499  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: TOM TEELING  
Mailing Address: 4 IRVING PLACE 15TH FLOOR  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Actual:  
10 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495830**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295499  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841430JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 22-Mar-2013 00:00:00  
Trans1 Recv Date: 22-Mar-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 27-Mar-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004295499  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113495830**

Year: 2013  
Manifest Tracking Num: 010841430JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

**Y158  
NE  
1/8-1/4  
0.221 mi.  
1169 ft.**

**CHAD SPRINGFIELD CORP  
2525 THIRD AVE.  
BRONX, NY 10451**

**NY UST U001841635  
N/A**

**Site 1 of 6 in cluster Y**

**Relative:  
Higher**

UST:  
Id/Status: 2-600832 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2017/08/30  
UTM X: 590464.80599000002  
UTM Y: 4518281.7692900002  
Site Type: Retail Gasoline Sales

**Actual:  
19 ft.**

Affiliation Records:  
Site Id: 22804  
Affiliation Type: On-Site Operator  
Company Name: CHAD SPRINGFIELD CORP  
Contact Type: Not reported  
Contact Name: MANNY KUMAR  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (917) 939-9667  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 4/12/2010

Site Id: 22804  
Affiliation Type: Emergency Contact  
Company Name: CHAD SPRINGFIELD CORP  
Contact Type: Not reported  
Contact Name: MANNY KUMAR  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Country Code: 999  
Phone: (917) 939-9667  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 4/12/2010

Site Id: 22804  
Affiliation Type: Facility Owner  
Company Name: CHAD SPRINGFIELD CORP  
Contact Type: MGR  
Contact Name: MANNY KUMAR  
Address1: 2525 THIRD AVE.  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10451  
Country Code: 001  
Phone: (914) 654-8900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 4/13/2010

Site Id: 22804  
Affiliation Type: Mail Contact  
Company Name: CHAD SPRINGFIELD CORP  
Contact Type: MGR  
Contact Name: MANNY KUMAR  
Address1: 2525 THIRD AVE.  
Address2: Not reported  
City: BRONX  
State: NY  
Zip Code: 10451  
Country Code: 001  
Phone: (914) 654-8900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: MSBAPTIS  
Date Last Modified: 4/13/2010

Tank Info:

Tank Number: 1  
Tank ID: 43999  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 2712  
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Date Test: 07/31/2007  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 04/12/2010

Equipment Records:

B03 - Tank External Protection - Original Impressed Current  
G00 - Tank Secondary Containment - None  
C02 - Pipe Location - Underground/On-ground  
I02 - Overfill - High Level Alarm  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
B08 - Tank External Protection - Retrofitted Impressed Current  
K01 - Spill Prevention - Catch Basin  
E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
H05 - Tank Leak Detection - In-Tank System (ATG)  
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number: 10  
Tank ID: 44008  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 12/01/1992  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

I00 - Overfill - None  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
B00 - Tank External Protection - None

Tank Number: 11  
Tank ID: 44009  
Tank Status: Closed - In Place  
Material Name: Closed - In Place

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Capacity Gallons: 550  
Install Date: 12/01/1992  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B00 - Tank External Protection - None  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
I00 - Overfill - None

Tank Number: 12  
Tank ID: 44010  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 550  
Install Date: 12/01/1957  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: 21  
Date Test: 02/12/2002  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 04/12/2010

Equipment Records:

E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
B03 - Tank External Protection - Original Impressed Current  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Number: 13  
Tank ID: 44011  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 550  
Install Date: 12/01/1957  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: 21  
Date Test: 02/12/2002  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 04/12/2010

Equipment Records:

E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
H00 - Tank Leak Detection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
B08 - Tank External Protection - Retrofitted Impressed Current  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 14  
Tank ID: 44012  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 550  
Install Date: 12/01/1957  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: 21  
Date Test: 02/12/2002  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Last Modified: 04/12/2010  
Equipment Records:  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)  
B01 - Tank External Protection - Painted/Asphalt Coating  
B08 - Tank External Protection - Retrofitted Impressed Current  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
H00 - Tank Leak Detection - None

Tank Number: 15  
Tank ID: 44013  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 550  
Install Date: 12/01/1957  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: 21  
Date Test: 02/12/2002  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 04/12/2010

Equipment Records:  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
H00 - Tank Leak Detection - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
B08 - Tank External Protection - Retrofitted Impressed Current  
K01 - Spill Prevention - Catch Basin  
C02 - Pipe Location - Underground/On-ground  
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Number: 16  
Tank ID: 44014  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 550  
Install Date: 12/01/1992

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

F00 - Pipe External Protection - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
B00 - Tank External Protection - None  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground

Tank Number: 2  
Tank ID: 44000  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 2712  
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21  
Date Test: 07/31/2007  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 04/12/2010

Equipment Records:

A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
B08 - Tank External Protection - Retrofitted Impressed Current  
K01 - Spill Prevention - Catch Basin  
H05 - Tank Leak Detection - In-Tank System (ATG)  
E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
C02 - Pipe Location - Underground/On-ground  
I02 - Overfill - High Level Alarm  
G00 - Tank Secondary Containment - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

L07 - Piping Leak Detection - Pressurized Piping Leak Detector  
B03 - Tank External Protection - Original Impressed Current

Tank Number: 3  
Tank ID: 44001  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 2712  
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21  
Date Test: 07/31/2007  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS  
Last Modified: 04/12/2010

Equipment Records:

A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
G00 - Tank Secondary Containment - None  
B08 - Tank External Protection - Retrofitted Impressed Current  
K01 - Spill Prevention - Catch Basin  
C02 - Pipe Location - Underground/On-ground  
I02 - Overfill - High Level Alarm  
E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
H05 - Tank Leak Detection - In-Tank System (ATG)  
B03 - Tank External Protection - Original Impressed Current  
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number: 4  
Tank ID: 44002  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 2712  
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21  
Date Test: 07/31/2007  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: MSBAPTIS



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Last Modified: 04/12/2010

Equipment Records:

E00 - Piping Secondary Containment - None  
F03 - Pipe External Protection - Original Impressed Current  
B08 - Tank External Protection - Retrofitted Impressed Current  
K01 - Spill Prevention - Catch Basin  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
C02 - Pipe Location - Underground/On-ground  
H05 - Tank Leak Detection - In-Tank System (ATG)  
G03 - Tank Secondary Containment - Vault (w/o access)  
I02 - Overfill - High Level Alarm  
B03 - Tank External Protection - Original Impressed Current  
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number: 5  
Tank ID: 44003  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

I00 - Overfill - None  
F00 - Pipe External Protection - None  
C02 - Pipe Location - Underground/On-ground  
B00 - Tank External Protection - None  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel

Tank Number: 6  
Tank ID: 44004  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

I00 - Overfill - None  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
B00 - Tank External Protection - None

Tank Number: 7  
Tank ID: 44005  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B00 - Tank External Protection - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
G00 - Tank Secondary Containment - None  
C02 - Pipe Location - Underground/On-ground  
F00 - Pipe External Protection - None  
J00 - Dispenser - None  
H00 - Tank Leak Detection - None  
I00 - Overfill - None

Tank Number: 8  
Tank ID: 44006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
C02 - Pipe Location - Underground/On-ground  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
F00 - Pipe External Protection - None  
H00 - Tank Leak Detection - None  
I00 - Overfill - None  
B00 - Tank External Protection - None

Tank Number: 9  
Tank ID: 44007  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 550  
Install Date: 10/01/1984  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

I00 - Overfill - None  
H00 - Tank Leak Detection - None  
F00 - Pipe External Protection - None  
A00 - Tank Internal Protection - None  
D02 - Pipe Type - Galvanized Steel  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAD SPRINGFIELD CORP (Continued)**

**U001841635**

C02 - Pipe Location - Underground/On-ground  
B00 - Tank External Protection - None

**Y159**  
**NE**  
**1/8-1/4**  
**0.221 mi.**  
**1169 ft.**

**2525 3RD AVE**  
**BRONX, NY 10451**

**EDR US Hist Auto Stat 1015366092**  
**N/A**

**Site 2 of 6 in cluster Y**

**Relative:**  
**Higher**

EDR Historical Auto Stations:

**Actual:**  
**19 ft.**

Name: GASOLINERIA CORPORATION  
Year: 1999  
Address: 2525 3RD AVE

Name: GASOLINERIA CORPORATION  
Year: 2000  
Address: 2525 3RD AVE

Name: GASOLINERIA OIL CORP  
Year: 2002  
Address: 2525 3RD AVE

Name: GASOLINERIA OIL CORP  
Year: 2003  
Address: 2525 3RD AVE

Name: GASOLINERIA OIL CORP  
Year: 2004  
Address: 2525 3RD AVE

Name: GASOLINERIA CORP  
Year: 2006  
Address: 2525 3RD AVE

Name: GAS CHASE INC  
Year: 2011  
Address: 2525 3RD AVE

**Y160**  
**NE**  
**1/8-1/4**  
**0.221 mi.**  
**1169 ft.**

**ORENSE S/S INC-13315**  
**2527 3RD AVE**  
**BRONX, NY 10451**

**RCRA NonGen / NLR 1000328842**  
**US AIRS NYD000707182**

**Site 3 of 6 in cluster Y**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**19 ft.**

Date form received by agency: 01/01/2007  
Facility name: GASOLINERIA OIL CORP AMOCO  
Facility address: 2525 THIRD AVE  
BRONX, NY 104516300  
EPA ID: NYD000707182  
Mailing address: THIRD AVE  
BRONX, NY 10451  
Contact: Not reported  
Contact address: THIRD AVE  
BRONX, NY 10451  
Contact country: US

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ORENSE S/S INC-13315 (Continued)**

**1000328842**

Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: GASOLINERIA OIL CORP  
Owner/operator address: 2525 THIRD AVE  
BRONX, NY 10451  
Owner/operator country: US  
Owner/operator telephone: (212) 665-8542  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: GASOLINERIA OIL CORP  
Owner/operator address: 2525 THIRD AVE  
BRONX, NY 10451  
Owner/operator country: US  
Owner/operator telephone: (212) 665-8542  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Facility name: GASOLINERIA OIL CORP AMOCO  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Facility name: GASOLINERIA OIL CORP AMOCO  
Classification: Not a generator, verified

Date form received by agency: 06/20/1991  
Facility name: GASOLINERIA OIL CORP AMOCO  
Classification: Small Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ORENSE S/S INC-13315 (Continued)**

**1000328842**

Violation Status: No violations found

AIRS (AFS):

Airs Minor Details:

EPA plant ID: 110001566243  
Plant name: ORENSE S/S INC-13315  
Plant address: 2527 3RD AVE  
BRONX, NY 10451  
County: BRONX  
Region code: 02  
Dunn & Bradst #: Not reported  
Air quality cntrl region: 043  
Sic code: 5541  
Sic code desc: GASOLINE SERVICE STATIONS  
North Am. industrial classf: Not reported  
NAIC code description: Not reported  
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR  
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR  
LOCAL GOVERNMENT  
Current HPV: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1004  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1101  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1102  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1103  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1104  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1201  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1202  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1203  
Air prog code hist file: SIP SOURCE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ORENSE S/S INC-13315 (Continued)**

**1000328842**

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1204  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1301  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1302  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1303  
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:

Air program code: SIP SOURCE  
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS  
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR  
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Def. attainment/non atnmnt: Not reported  
Repeat violator date: Not reported  
Turnover compliance: Not reported

Air program code: SIP SOURCE  
Plant air program pollutant: Not reported  
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR  
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Def. attainment/non atnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT  
Repeat violator date: Not reported  
Turnover compliance: Not reported

Z161  
NNE  
1/8-1/4  
0.231 mi.  
1219 ft.

**CON EDISON MANHOLE: 14513  
E 137TH ST & RIDER AVE  
BRONX, NY 10453**

**RCRA-CESQG 1016149988  
NYP004286571**

**Site 1 of 3 in cluster Z**

**Relative:  
Higher**

RCRA-CESQG:

Date form received by agency: 01/31/2013  
Facility name: CON EDISON MANHOLE: 14513  
Facility address: E 137TH ST & RIDER AVE  
BRONX, NY 10453

**Actual:  
18 ft.**

EPA ID: NYP004286571  
Mailing address: IRVING PL, RM 828  
NEW YORK, NY 10003

Contact: GINO FRABASILE  
Contact address: Not reported  
Not reported

Contact country: Not reported  
Contact telephone: (914) 925-6219  
Contact email: Not reported

EPA Region: 02  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time;

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE: 14513 (Continued)**

**1016149988**

or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**Z162  
NNE  
1/8-1/4  
0.231 mi.  
1219 ft.**

**CON EDISON  
E 137TH ST & RIDER AVE  
BRONX, NY 10451**

**NY MANIFEST S113494964  
N/A**

**Site 2 of 3 in cluster Z**

**Relative:  
Higher**

NY MANIFEST:

EPA ID: NYP004286571  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: TOM TEELING  
Mailing Address: 4 IRVING PLACE - 15TH FLOOR  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

**Actual:  
18 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 31-Jan-2013 00:00:00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113494964**

Trans1 Recv Date: 31-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 31-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004286571  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 4000  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841043JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 31-Jan-2013 00:00:00  
Trans1 Recv Date: 31-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 31-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004286571  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 4000  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010841043JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113494964**

Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

**AA163  
ENE  
1/8-1/4  
0.234 mi.  
1235 ft.**

**MITCHELL HOUSES  
205 ALEXANDER AVENUE  
BRONX, NY 10454  
Site 1 of 3 in cluster AA**

**NY UST U000410676  
N/A**

**Relative:  
Higher**

UST:  
Id/Status: 2-473243 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2014/03/28  
UTM X: 590639.30662000005  
UTM Y: 4518175.5457800003  
Site Type: Apartment Building/Office Building

**Actual:  
27 ft.**

Affiliation Records:  
Site Id: 20804  
Affiliation Type: On-Site Operator  
Company Name: MITCHELL HOUSES  
Contact Type: Not reported  
Contact Name: FUEL OIL REMEDIATION UNIT  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/13/2008

Site Id: 20804  
Affiliation Type: Emergency Contact  
Company Name: NYC HOUSING AUTHORITY  
Contact Type: Not reported  
Contact Name: EMERGENCY SERVICES DEPT.  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 707-5900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES (Continued)**

**U000410676**

Date Last Modified: 9/13/2012  
  
Site Id: 20804  
Affiliation Type: Mail Contact  
Company Name: NYC HOUSING AUTHORITY  
Contact Type: Not reported  
Contact Name: FUEL OIL REMEDIATION COORDINATOR  
Address1: 23-02 49TH AVENUE  
Address2: TECH SERVS DEPT  
City: LONG ISLAND CITY  
State: NY  
Zip Code: 11101  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/13/2008

Site Id: 20804  
Affiliation Type: Facility Owner  
Company Name: NYC HOUSING AUTHORITY  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 23-02 49TH AVE  
Address2: Not reported  
City: LONG ISLAND CITY  
State: NY  
Zip Code: 11101  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/16/2011

**Tank Info:**

Tank Number: 1  
Tank ID: 56263  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 25000  
Install Date: 07/01/1998  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)  
  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: E  
Modified By: NRLOMBAR  
Last Modified: 11/13/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES (Continued)**

**U000410676**

Equipment Records:

I03 - Overfill - Automatic Shut-Off  
D11 - Pipe Type - Flexible Piping  
F05 - Pipe External Protection - Jacketed  
A00 - Tank Internal Protection - None  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
E04 - Piping Secondary Containment - Double-Walled (Underground)  
L02 - Piping Leak Detection - Interstitial - Manual Monitoring  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
K00 - Spill Prevention - None

Tank Number: 2  
Tank ID: 56264  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 25000  
Install Date: 07/01/1998  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: E  
Modified By: NRLOMBAR  
Last Modified: 11/13/2008

Equipment Records:

I03 - Overfill - Automatic Shut-Off  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
K00 - Spill Prevention - None  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
A00 - Tank Internal Protection - None  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
D11 - Pipe Type - Flexible Piping  
F05 - Pipe External Protection - Jacketed  
E04 - Piping Secondary Containment - Double-Walled (Underground)  
L02 - Piping Leak Detection - Interstitial - Manual Monitoring

Tank Number: 3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES (Continued)**

**U000410676**

Tank ID: 56265  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 25000  
Install Date: 07/01/1998  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: E  
Modified By: NRLOMBAR  
Last Modified: 11/13/2008

Equipment Records:

I03 - Overfill - Automatic Shut-Off  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
K00 - Spill Prevention - None  
B04 - Tank External Protection - Fiberglass  
H05 - Tank Leak Detection - In-Tank System (ATG)  
A00 - Tank Internal Protection - None  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
D11 - Pipe Type - Flexible Piping  
F05 - Pipe External Protection - Jacketed  
E04 - Piping Secondary Containment - Double-Walled (Underground)  
L02 - Piping Leak Detection - Interstitial - Manual Monitoring

Tank Number: OLD 1  
Tank ID: 37501  
Tank Status: Closed - In Place  
Material Name: Closed - In Place  
Capacity Gallons: 29935  
Install Date: 10/01/1966  
Date Tank Closed: 05/01/1998  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MITCHELL HOUSES (Continued)

U000410676

I04 - Overfill - Product Level Gauge (A/G)  
H00 - Tank Leak Detection - None  
F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
C02 - Pipe Location - Underground/On-ground  
B00 - Tank External Protection - None

Tank Number: OLD 2  
Tank ID: 37502  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 28075  
Install Date: 10/01/1966  
Date Tank Closed: 07/01/1998  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B00 - Tank External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
C02 - Pipe Location - Underground/On-ground  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None

Tank Number: OLD 3  
Tank ID: 37503  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 26226  
Install Date: 10/01/1966  
Date Tank Closed: 07/01/1998  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES (Continued)**

**U000410676**

Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B00 - Tank External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
C02 - Pipe Location - Underground/On-ground  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None

Tank Number: OLD 4  
Tank ID: 37504  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 29467  
Install Date: 10/01/1966  
Date Tank Closed: 07/01/1998  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0000  
Common Name of Substance: Empty

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
C02 - Pipe Location - Underground/On-ground  
H00 - Tank Leak Detection - None  
I04 - Overfill - Product Level Gauge (A/G)  
F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None  
B00 - Tank External Protection - None

AA164  
ENE  
1/8-1/4  
0.234 mi.  
1235 ft.

**MITCHELL HOUSES -NYCHA**  
**205-207 ALEXANDER AVE**  
**BRONX, NY**  
**Site 2 of 3 in cluster AA**

**NY LTANKS** **S103036974**  
**NY Spills** **N/A**

Relative:  
Higher

LTANKS:  
Site ID: 180309  
Spill Number/Closed Date: 9802631 / 6/1/1998  
Spill Date: 5/29/1998  
Spill Cause: Tank Overfill

Actual:  
27 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES -NYCHA (Continued)**

**S103036974**

Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: SACCACIO  
Referred To: Not reported  
Reported to Dept: 5/29/1998  
CID: 365  
Water Affected: Not reported  
Spill Notifier: DEC  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 5/29/1998  
Spill Record Last Update: 12/7/2005  
Spiller Name: Not reported  
Spiller Company: GORDON ENVIROMENTAL & MEC  
Spiller Address: 2878 GOLF AV  
Spiller City,St,Zip: STATEN ISLAND, NY 10303-  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 82627  
DEC Memo: Not reported  
Remarks: OIL WATER SEPERATOR OVERFLOWED SPUING SEPARATED OIL ONTO GROUND -  
EITHER #2 OR #4 OIL

Material:

Site ID: 180309  
Operable Unit ID: 1063288  
Operable Unit: 01  
Material ID: 320954  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 180309  
Operable Unit ID: 1063288  
Operable Unit: 01  
Material ID: 320953  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: Yes



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES -NYCHA (Continued)**

**S103036974**

Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**SPILLS:**

Facility ID: 9906428  
Facility Type: ER  
DER Facility ID: 229622  
Site ID: 283107  
DEC Region: 2  
Spill Date: 8/30/1999  
Spill Number/Closed Date: 9906428 / 3/25/2003  
Spill Cause: Human Error  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: SACCACIO  
Referred To: Not reported  
Reported to Dept: 8/30/1999  
CID: 312  
Water Affected: Not reported  
Spill Source: Tank Truck  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 8/30/1999  
Spill Record Last Update: 1/21/2005  
Spiller Name: Not reported  
Spiller Company: S & J FUEL  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: MR PERKINS  
Contact Phone: (718) 993-0630  
DEC Memo: Not reported  
Remarks:

DRIVER FORGOT TO OPEN VENT COMPARTMENTS ON TRUCK AND BUILT UP ENOUGH PRESSURE INSIDE THE TRUCK, FORCING OIL OUT OF THE TANK TRUCK - SPILLED TO THE STREET - NYC HOUSING CLEANED UP MOST OF SPILL - WAITING FOR S&J TO SEND A PRESSURE WASHER TO FINISH CLEANING THE STREET

**Material:**

Site ID: 283107  
Operable Unit ID: 1080877  
Operable Unit: 01  
Material ID: 302699  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES -NYCHA (Continued)**

**S103036974**

Units: Gallons  
Recovered: 50  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9904797  
Facility Type: ER  
DER Facility ID: 229622  
Site ID: 283106  
DEC Region: 2  
Spill Date: 7/22/1999  
Spill Number/Closed Date: 9904797 / 3/25/2003  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: SACCACIO  
Referred To: Not reported  
Reported to Dept: 7/22/1999  
CID: 390  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 7/22/1999  
Spill Record Last Update: 1/21/2005  
Spiller Name: RALPH STABILE  
Spiller Company: RESIDENTIAL BLDG  
Spiller Address: 205 ALEXANDER AVE  
Spiller City,St,Zip: BRONX, ZZ  
Spiller Company: 001  
Contact Name: RALPH STABILE  
Contact Phone: (718) 993-0630  
DEC Memo: Not reported  
Remarks: unk how the spill occurred was doing a boiler renovation - said he wasn't using it

Material:

Site ID: 283106  
Operable Unit ID: 1083506  
Operable Unit: 01  
Material ID: 301125  
Material Code: 0007  
Material Name: Cutting Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 40  
Units: Gallons  
Recovered: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES -NYCHA (Continued)**

**S103036974**

Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9900260  
Facility Type: ER  
DER Facility ID: 82627  
Site ID: 325819  
DEC Region: 2  
Spill Date: 4/7/1999  
Spill Number/Closed Date: 9900260 / 12/11/2007  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: jkkann  
Referred To: CONSOLIDATED WITH 9801188  
Reported to Dept: 4/7/1999  
CID: 384  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 4/7/1999  
Spill Record Last Update: 12/11/2007  
Spiller Name: Not reported  
Spiller Company: EASTCO BOILER CORP  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: ED MALONE  
Contact Phone: (212) 306-8480  
DEC Memo: 11/29/05: This spill transferred from J.Kolleeny to  
S.Kraszewski.02/02/06: This spill transferred from S.Kraszewski to  
Q.Abidi.04/04/06: This spill transferred from Q. Abidi to Koon  
Tang.12/11/07: Spill transferred to J.Kann and consolidated with  
9801188. J.Kann

Remarks: EASCO WAS HOOKING UP A PORTABLE BOILER WHEN THEY NOTICED THEY WERE  
LEAKING. CLEANUP WILL BE DONE BY EASCO.

Material:

Site ID: 325819  
Operable Unit ID: 1075080  
Operable Unit: 01  
Material ID: 307401  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 20

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES -NYCHA (Continued)**

**S103036974**

Units: Gallons  
Recovered: 20  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9801188  
Facility Type: ER  
DER Facility ID: 82627  
Site ID: 91997  
DEC Region: 2  
Spill Date: 4/28/1998  
Spill Number/Closed Date: 9801188 / Not Reported  
Spill Cause: Unknown  
Spill Class: Known release that creates potential for fire or hazard. (Highly Improbable)

SWIS: 0301  
Investigator: jkkann  
Referred To: IWP APPRVD 12/23/13, SIR DUE 6/23/14, STIP SENT  
Reported to Dept: 4/28/1998  
CID: 198  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 1  
Date Entered In Computer: 4/28/1998  
Spill Record Last Update: 1/7/2014  
Spiller Name: Not reported  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: NEW YORK, NY  
Spiller Company: 001  
Contact Name: SUPERINTENDENT MARTINEZ  
Contact Phone: (718) 939-0630  
DEC Memo: 12/07/05: This spill transferred from J.Kolleeny to S.Kraszewski.09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 5/29/12: J.kann - since little is known about this facility, a P0 priority was assigned.10/23/13: J.Kann - a work plan was submitted and edoced under 9005760.01/07/14: J.Kann - revised IWP approved on 12/23/13. There was some confusion between the two Mitchell Houses. The revised IWP only covers Alexander Avenue. SIR due 6/23/14. Site included in the multi site stip sent to NYCHA today.

Not reported  
Remarks: CALLER WAS REMOVING TOPSOIL TO REMOVE TANKS AND REALIZED SOIL WAS CONTAMINATED. CONTRACT WORK WAS STOPPED UNTIL DEC NOTIFIED.

Material:  
Site ID: 91997  
Operable Unit ID: 1058808  
Operable Unit: 01

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES -NYCHA (Continued)**

**S103036974**

Material ID: 323129  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9714368  
Facility Type: ER  
DER Facility ID: 82627  
Site ID: 251888  
DEC Region: 2  
Spill Date: 3/27/1998  
Spill Number/Closed Date: 9714368 / 2/10/2003  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: SACCACIO  
Referred To: Not reported  
Reported to Dept: 3/27/1998  
CID: 201  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: DEC  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 3/27/1998  
Spill Record Last Update: 12/7/2005  
Spiller Name: UNK  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: MANHATTAN, NY 10007-  
Spiller Company: 001  
Contact Name: CALLER  
Contact Phone: Not reported  
DEC Memo: Not reported  
Remarks: OIL COMING OUT OF THE FUEL CAP/UNK AMOUNT/STILL COMING OUT OF PIPE/PD  
ON SCENE\*\*\*CALLER AGENCY CHANGE FROM DEC TO DEP - SPELLING CHANGES

Material:

Site ID: 251888  
Operable Unit ID: 1060150  
Operable Unit: 01  
Material ID: 325329  
Material Code: 0001A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL HOUSES -NYCHA (Continued)**

**S103036974**

Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

[Click this hyperlink](#) while viewing on your computer to access additional NY\_SPILL: detail in the EDR Site Report.

AB165  
SW  
1/8-1/4  
0.240 mi.  
1266 ft.

**CONSOLIDATED EDIOSN**  
**230 E 127TH ST**  
**NEW YORK, NY**  
**Site 1 of 4 in cluster AB**

**NY MANIFEST S109825198**  
**N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID: NYP004171344  
Country: USA  
Mailing Name: CONSOLIDATED EDIOSN  
Mailing Contact: CONSOLIDATED EDISON  
Mailing Address: 4 IRVING PL RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

**Actual:**  
**12 ft.**

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-06-11  
Trans1 Recv Date: 2009-06-11  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-06-13  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004171344  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1000.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CONSOLIDATED EDIOSN (Continued)

S109825198

Year: 2009  
Manifest Tracking Num: 003532326JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-06-11  
Trans1 Recv Date: 2009-06-11  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-06-13  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004171344  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1000.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0

Year: 2009  
Manifest Tracking Num: 003532326JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-06-11  
Trans1 Recv Date: 2009-06-11

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CONSOLIDATED EDIOSN (Continued)

S109825198

Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-06-13  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004171344  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1000.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 003532326JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

V166  
SW  
1/8-1/4  
0.241 mi.  
1270 ft.

CONED  
OPP 2355 3RD AVE  
NEW YORK, NY 10001  
Site 2 of 2 in cluster V

NY MANIFEST S109825151  
N/A

Relative:  
Higher

NY MANIFEST:  
EPA ID: NYP004181456  
Country: USA  
Mailing Name: CONED  
Mailing Contact: CONED  
Mailing Address: 4 IRVING ST  
Mailing Address 2: ROOM 818  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: Not reported

Actual:  
12 ft.

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-06-29  
Trans1 Recv Date: 2009-06-29  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-06-29



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONED (Continued)**

**S109825151**

Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004181456  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 250.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 001084110GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2009-06-29  
Trans1 Recv Date: 2009-06-29  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2009-06-29  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004181456  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 250.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 001084110GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONED (Continued)**

**S109825151**

Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

**S167**  
**West**  
**1/8-1/4**  
**0.241 mi.**  
**1270 ft.**

**BUILDING**  
**123 EAST 130TH ST**  
**MANHATTAN, NY**

**NY AST** **S102672512**  
**NY Spills** **N/A**

**Site 5 of 5 in cluster S**

**Relative:**  
**Higher**

AST:

Region: STATE  
DEC Region: 2  
Site Status: Active  
Facility Id: 2-210811  
Program Type: PBS  
UTM X: 589753.14524999994  
UTM Y: 4518011.0568399997  
Expiration Date: 2012/08/26  
Site Type: Apartment Building/Office Building

**Actual:**  
**13 ft.**

Affiliation Records:

Site Id: 7648  
Affiliation Type: Mail Contact  
Company Name: TRICHAM HOUSING ASSOCIATES  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 401 EAST 74TH STREET  
Address2: C/O KEN SILVERMAN  
City: NEW YORK  
State: NY  
Zip Code: 10021  
Country Code: 001  
Phone: (212) 535-4400  
EMail: KENSILVERMAN@MSN.COM  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Site Id: 7648  
Affiliation Type: Emergency Contact  
Company Name: TRICHAM HOUSING ASSOCIATES  
Contact Type: Not reported  
Contact Name: KEN SILVERMAN  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (212) 535-4400  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUILDING (Continued)**

**S102672512**

Site Id: 7648  
Affiliation Type: On-Site Operator  
Company Name: 123 EAST 130TH ST  
Contact Type: Not reported  
Contact Name: FRANK PLUMMER  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 427-7333  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Site Id: 7648  
Affiliation Type: Facility Owner  
Company Name: TRICHAM HOUSING ASSOCIATES  
Contact Type: VP/GEN PARTNER  
Contact Name: KENNETH R. SILVERMAN  
Address1: 401 EAST 74TH STREET  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10021  
Country Code: 001  
Phone: (212) 535-4400  
EMail: Not reported  
Fax Number: Not reported  
Modified By: DXLIVING  
Date Last Modified: 5/21/2007

Tank Info:

Tank Number: 001  
Tank Id: 9736  
Material Code: 0003  
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
G00 - Tank Secondary Containment - None  
H99 - Tank Leak Detection - Other  
B00 - Tank External Protection - None  
Tank Location: 1  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUILDING (Continued)**

**S102672512**

Install Date: 01/01/1985  
Capacity Gallons: 5000  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: TRANSLAT  
Last Modified: 03/04/2004  
Material Name: #6 Fuel Oil (On-Site Consumption)

**SPILLS:**

Facility ID: 9402773  
Facility Type: ER  
DER Facility ID: 182257  
Site ID: 220348  
DEC Region: 2  
Spill Date: 5/26/1994  
Spill Number/Closed Date: 9402773 / 5/26/1994  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: CAMMISA  
Referred To: Not reported  
Reported to Dept: 5/26/1994  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Other  
Cleanup Ceased: 5/26/1994  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/26/1994  
Spill Record Last Update: 9/30/2004  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*UPDATE\*\*\*, ZZ  
Spiller Company: 999  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Not reported  
Remarks: DEFECTIVE GUAGE - CONTAINED IN BACKYARD - SPEEDY DRY BEING USED.

**Material:**

Site ID: 220348  
Operable Unit ID: 996577  
Operable Unit: 01  
Material ID: 564366  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUILDING (Continued)**

**S102672512**

Quantity: 5  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 1110466  
Facility Type: ER  
DER Facility ID: 412772  
Site ID: 458301  
DEC Region: 2  
Spill Date: 11/23/2011  
Spill Number/Closed Date: 1110466 / 11/28/2011  
Spill Cause: Human Error  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: SFRAHMAN  
Referred To: Not reported  
Reported to Dept: 11/23/2011  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 11/23/2011  
Spill Record Last Update: 11/28/2011  
Spiller Name: Not reported  
Spiller Company: OIL COMPANY  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: PETE  
Contact Phone: Not reported  
DEC Memo: PBS: 2-210811Site contact: Frank 212-427-7333/212-535-4400 KenSpoke with Pete at RightWay.He indicated that approx. 50-60 gallons #6 oil spilled out of the vent.Oil was contained on the alleyway, some went into a drain.No soil was impacted.No oil spilled in the tank room.RightWay cleaned up the spill.(sr)

Remarks: OVERFILL ON TANK, NO FURTHER DETAILS.

Material:

Site ID: 458301  
Operable Unit ID: 1208415  
Operable Unit: 01  
Material ID: 2205746  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BUILDING (Continued)**

**S102672512**

Material FA: Petroleum  
 Quantity: Not reported  
 Units: Not reported  
 Recovered: Not reported  
 Resource Affected: Not reported  
 Oxygenate: False

Tank Test:

**W168**  
**North**  
**1/8-1/4**  
**0.246 mi.**  
**1300 ft.**

**CON EDISON MANHOLE: 31104**  
**E 135 ST & PARK AVE**  
**BRONX, NY 10451**

**RCRA-CESQG 1016149916**  
**NYP004285847**

**Site 5 of 8 in cluster W**

**Relative:**  
**Higher**

RCRA-CESQG:  
 Date form received by agency: 01/28/2013  
 Facility name: CON EDISON MANHOLE: 31104  
 Facility address: E 135 ST & PARK AVE  
 BRONX, NY 10451

**Actual:**  
**13 ft.**

EPA ID: NYP004285847  
 Mailing address: IRVING PL, RM 828  
 NEW YORK, NY 10003  
 Contact: DOMINIC BIZZARO  
 Contact address: Not reported  
 Not reported  
 Contact country: Not reported  
 Contact telephone: (914) 925-6219  
 Contact email: Not reported  
 EPA Region: 02  
 Classification: Conditionally Exempt Small Quantity Generator  
 Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON MANHOLE: 31104 (Continued)**

**1016149916**

Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**W169**  
**North**  
**1/8-1/4**  
**0.246 mi.**  
**1300 ft.**

**CON EDISON SERVICE BOX: 61992**  
**642 W 56TH & 12TH AVE**  
**NEW YORK, NY 10019**

**RCRA NonGen / NLR**

**1016149620**  
**NYP004282851**

**Site 6 of 8 in cluster W**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

Date form received by agency: 03/28/2013

Facility name: CON EDISON SERVICE BOX: 61992

**Actual:**  
**13 ft.**

Facility address: 642 W 56TH & 12TH AVE  
NEW YORK, NY 10019

EPA ID: NYP004282851

Contact: JOSE MONTALVO

Contact address: Not reported  
Not reported

Contact country: US

Contact telephone: (212) 427-1331

Contact email: Not reported

EPA Region: 02

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/28/2013

Facility name: CON EDISON SERVICE BOX: 61992

Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>X170</b> <b>South</b> <b>1/8-1/4</b> <b>0.247 mi.</b> <b>1305 ft.</b>	<b>126TH BUS DEPOT</b> <b>246 SECOND AVENUE</b> <b>MANHATTAN, NY</b>  <b>Site 2 of 2 in cluster X</b>	<b>NY LTANKS</b>	<b>S106703020</b> <b>N/A</b>
--	---	------------------	---------------------------------

<b>Relative:</b> <b>Higher</b>	<b>LTANKS:</b> Site ID: 200847 Spill Number/Closed Date: 9903002 / 12/27/2000 Spill Date: 6/15/1999 Spill Cause: Tank Test Failure Spill Source: Commercial/Industrial Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
<b>Actual:</b> <b>10 ft.</b>	Cleanup Ceased: Not reported Cleanup Meets Standard: False SWIS: 3101 Investigator: MCTIBBE Referred To: Not reported Reported to Dept: 6/15/1999 CID: 389 Water Affected: Not reported Spill Notifier: Other Last Inspection: Not reported Recommended Penalty: False UST Involvement: True Remediation Phase: 0 Date Entered In Computer: 6/15/1999 Spill Record Last Update: 2/19/2003 Spiller Name: MCCULLOUGH COMPANY Spiller Company: NYCTA Spiller Address: Not reported Spiller City,St,Zip: NY Spiller County: 001 Spiller Contact: Not reported Spiller Phone: Not reported Spiller Extention: Not reported DEC Region: 2 DER Facility ID: 167117 DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"TRANSFERED FROM HALE TO TIBBE ON 12/27/00. REFER TO 90-07322. REMEDIATION ONGOING.		
	<b>Remarks:</b> caller hired to do a tank test and is reporting that it failed caller was subcontracted by john koziarz from mccoulough company		

**Material:**

Site ID:	200847
Operable Unit ID:	1081932
Operable Unit:	01
Material ID:	302929
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

126TH BUS DEPOT (Continued)

S106703020

Tank Test:

Site ID: 200847  
Spill Tank Test: 1547267  
Tank Number: 005  
Tank Size: 4000  
Test Method: 20  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: USTest 2000/P/LL plus USTest 2000/U

AC171  
WNW  
1/8-1/4  
0.247 mi.  
1305 ft.

CON EDISON  
E 132ND ST & PARK AVE  
NEW YORK, NY 10029  
Site 1 of 6 in cluster AC

RCRA NonGen / NLR 1014398510  
NYP004208647

Relative:  
Higher

RCRA NonGen / NLR:

Date form received by agency: 06/14/2010  
Facility name: CON EDISON  
Facility address: E 132ND ST & PARK AVE  
NEW YORK, NY 10029  
EPA ID: NYP004208647  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003  
Contact: DAVID DUKE  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (917) 559-8971  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:  
9 ft.

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**AC172**      **CONSOLIDATED EDISON**  
**WNW**        **132ND ST & PARK AVE**  
**1/8-1/4**      **NEW YORK, NY 10009**  
**0.247 mi.**  
**1305 ft.**      **Site 2 of 6 in cluster AC**

**NY MANIFEST**    **S110610687**  
                                 **N/A**

**Relative:**  
**Higher**

NY MANIFEST:  
EPA ID:                    NYP004208647  
Country:                 USA  
Mailing Name:            CONSOLIDATED EDISON  
Mailing Contact:        THOMAS TEELING  
Mailing Address:        4 IRVING PL RM 828  
Mailing Address 2:      Not reported  
Mailing City:            NEW YORK  
Mailing State:           NY  
Mailing Zip:             10003  
Mailing Zip4:            Not reported  
Mailing Country:        USA  
Mailing Phone:          212-460-3770

**Actual:**  
**9 ft.**

Document ID:            Not reported  
Manifest Status:        Not reported  
Trans1 State ID:        NJ000002719  
Trans2 State ID:        Not reported  
Generator Ship Date:    2010-06-14  
Trans1 Recv Date:       2010-06-14  
Trans2 Recv Date:       Not reported  
TSD Site Recv Date:    2010-06-14  
Part A Recv Date:       Not reported  
Part B Recv Date:       Not reported  
Generator EPA ID:       NYP004208647  
Trans1 EPA ID:           Not reported  
Trans2 EPA ID:           Not reported  
TSD ID:                  NJD002200046  
Waste Code:             Not reported  
Quantity:                1157.0  
Units:                    K - Kilograms (2.2 pounds)  
Number of Containers:   1.0  
Container Type:          CM - Metal boxes, cases, roll-offs  
Handling Method:        L Landfill.  
Specific Gravity:        1.0  
Year:                     2010  
Manifest Tracking Num:   006874598JJK  
Import Ind:               N  
Export Ind:               N  
Discr Quantity Ind:      N  
Discr Type Ind:          N  
Discr Residue Ind:       N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind:    N  
Manifest Ref Num:        Not reported  
Alt Fac RCRA Id:         Not reported  
Alt Fac Sign Date:       Not reported  
Mgmt Method Type Code: H141

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AC173  
WNW  
1/8-1/4  
0.247 mi.  
1305 ft.

CON EDISON MANHOLE 58948  
W 132ND ST & PARK AVE  
NEW YORK, NY 10037

RCRA NonGen / NLR

1014926783  
NYP004245684

Site 3 of 6 in cluster AC

Relative:  
Higher

RCRA NonGen / NLR:

Date form received by agency: 01/18/2012

Facility name: CON EDISON MANHOLE 58948

Facility address: W 132ND ST & PARK AVE

NEW YORK, NY 10037

EPA ID: NYP004245684

Mailing address: 4 IRVING PL, RM 828

NEW YORK, NY 10003

Contact: BENJAMIN BAMONTE

Contact address: Not reported

Not reported

Contact country: Not reported

Contact telephone: (212) 894-9549

Contact email: Not reported

EPA Region: 02

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:  
9 ft.

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Used oil transporter: No

Historical Generators:

Date form received by agency: 12/19/2011

Facility name: CON EDISON MANHOLE 58948

Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

AC174  
WNW  
1/8-1/4  
0.247 mi.  
1305 ft.

CONSOLIDATED EDISON - MH 58948  
PARK AVE & EAST 132ND ST  
NEW YORK, NY 10037

NY MANIFEST

S111437795  
N/A

Site 4 of 6 in cluster AC

Relative:  
Higher

NY MANIFEST:

EPA ID: NYP004245684

Country: USA

Mailing Name: CONSOLIDATED EDISON - MH 58948

Mailing Contact: TOM TEELING

Mailing Address: 4 IRVING PLACE - 15TH FLOOR

Actual:  
9 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED EDISON - MH 58948 (Continued)**

**S111437795**

Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 2011-12-19  
Trans1 Recv Date: 2011-12-19  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2011-12-20  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004245684  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 1500.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Year: 2011  
Manifest Tracking Num: 009204523JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H111

AC175  
WNW  
1/8-1/4  
0.247 mi.  
1305 ft.

**CON EDISON SERVICE BOX 58948**  
**E 132ND ST & PARK AVE SW COR**  
**NEW YORK, NY 10037**  
**Site 5 of 6 in cluster AC**

**RCRA NonGen / NLR 1014926287**  
**NYP004240412**

**Relative:**  
**Higher**

RCRA NonGen / NLR:  
Date form received by agency: 09/22/2011  
Facility name: CON EDISON SERVICE BOX 58948  
Facility address: E 132ND ST & PARK AVE SW COR  
NEW YORK, NY 10037  
EPA ID: NYP004240412  
Mailing address: 4 IRVING PL, RM 828  
NEW YORK, NY 10003

**Actual:**  
**9 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON SERVICE BOX 58948 (Continued)**

**1014926287**

Contact: JOSE MONTALVO  
Contact address: Not reported  
Contact country: Not reported  
Contact telephone: (212) 427-1331  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 08/23/2011  
Facility name: CON EDISON SERVICE BOX 58948  
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

**AC176**  
**WNW**  
**1/8-1/4**  
**0.247 mi.**  
**1305 ft.**

**CON EDISON - GAS MAIN EXCAVATION**  
**EAST 132ND ST. & PARK AVE.**  
**NEW YORK, NY 10037**  
**Site 6 of 6 in cluster AC**

**RCRA-LQG** **1014395876**  
**NYP004176046**

**Relative:**  
**Higher**

RCRA-LQG:

Date form received by agency: 03/23/2010  
Facility name: CON EDISON - GAS MAIN EXCAVATION  
Facility address: EAST 132ND ST. & PARK AVE.  
NEW YORK, NY 10037  
EPA ID: NYP004176046  
Mailing address: 4 IRVING PLACE  
NEW YORK, NY 10003  
Contact: FRANKLYN MURRAY  
Contact address: Not reported  
Contact country: Not reported  
Contact telephone: (212) 460-2808  
Contact email: MURRAYFR@CONED.COM  
EPA Region: 02  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste

**Actual:**  
**9 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON - GAS MAIN EXCAVATION (Continued)**

**1014395876**

during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

**Owner/Operator Summary:**

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.  
Owner/operator address: 4 IRVING PLACE  
NEW YORK, NY 10003  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 06/19/2009  
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.  
Owner/operator address: 4 IRVING PLACE  
NEW YORK, NY 10003  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 06/19/2009  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Hazardous Waste Summary:**

Waste code: D018  
Waste name: BENZENE  
  
Waste code: D024  
Waste name: M-CRESOL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON - GAS MAIN EXCAVATION (Continued)**

1014395876

Waste code: D025  
Waste name: P-CRESOL  
  
Waste code: B007  
Waste name: B007  
  
Violation Status: No violations found

AB177  
SW  
1/8-1/4  
0.248 mi.  
1308 ft.

212 E 127TH ST  
NEW YORK, NY 10035

Site 2 of 4 in cluster AB

EDR US Hist Auto Stat

1015323490

N/A

Relative:  
Higher

EDR Historical Auto Stations:

Name: CARORAMA BODY WORKS  
Year: 2000  
Address: 212 E 127TH ST

Actual:  
12 ft.

Name: CARORAMA BODY WORKS  
Year: 2003  
Address: 212 E 127TH ST

Name: CARORAMA BODY WORKS  
Year: 2004  
Address: 212 E 127TH ST

Name: CARORAMA BODY WORKS  
Year: 2007  
Address: 212 E 127TH ST

AD178  
NNW  
1/8-1/4  
0.248 mi.  
1311 ft.

CON EDISON  
E 135TH ST & EXTERIOR ST  
BRONX, NY

Site 1 of 5 in cluster AD

NY MANIFEST

S112818181

N/A

Relative:  
Higher

NY MANIFEST:

EPA ID: NYP004282596  
Country: USA  
Mailing Name: CON EDISON  
Mailing Contact: CON EDISON  
Mailing Address: 4 IRVING PL 15TH FL  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-3770

Actual:  
11 ft.

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 10-Jan-2013 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S112818181**

Trans1 Recv Date: 10-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 10-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004282596  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 5220  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010408908JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJ0000027193  
Trans2 State ID: Not reported  
Generator Ship Date: 10-Jan-2013 00:00:00  
Trans1 Recv Date: 10-Jan-2013 00:00:00  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 10-Jan-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004282596  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: Not reported  
Quantity: 5220  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 010408908JJK  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S112818181**

Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

**AD179  
NNW  
1/8-1/4  
0.248 mi.  
1311 ft.**

**NYSDOT CONTRACT D500792  
EXTERIOR ST & 135TH ST  
BRONX, NY 10451  
Site 2 of 5 in cluster AD**

**RCRA NonGen / NLR 1000554446  
NY MANIFEST NYD986969103**

**Relative:  
Higher**

RCRA NonGen / NLR:

**Actual:  
11 ft.**

Date form received by agency: 01/01/2007  
Facility name: NYSDOT CONTRACT D500792  
Facility address: EXTERIOR ST & 135TH ST  
BRONX, NY 10451  
EPA ID: NYD986969103  
Mailing address: 21ST ST  
LONG ISLAND CITY, NY 11101  
Contact: LEE EFFNER  
Contact address: 21ST ST  
LONG ISLAND CITY, NY 11101  
Contact country: US  
Contact telephone: (718) 292-1675  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NYSDOT  
Owner/operator address: 47-40 21ST ST  
LONG ISLAND CITY, NY 11101  
Owner/operator country: US  
Owner/operator telephone: (718) 482-4801  
Legal status: State  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NYSDOT  
Owner/operator address: 47-40 21ST ST  
LONG ISLAND CITY, NY 11101  
Owner/operator country: US  
Owner/operator telephone: (718) 482-4801  
Legal status: State  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYSDOT CONTRACT D500792 (Continued)**

**1000554446**

Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: NYSDOT CONTRACT D500792  
Classification: Not a generator, verified

Date form received by agency: 09/09/1991  
Facility name: NYSDOT CONTRACT D500792  
Classification: Not a generator, verified

Violation Status: No violations found

NY MANIFEST:

EPA ID: NYD986969103  
Country: USA  
Mailing Name: NYSDOT  
Mailing Contact: ROBERT N. MITCHELL  
Mailing Address: 47-40 21ST STREET  
Mailing Address 2: Not reported  
Mailing City: LONG ISLAND CITY  
Mailing State: NY  
Mailing Zip: 11101  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 718-353-8330

Document ID: MIA2374814  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: Not reported  
Trans2 State ID: Not reported  
Generator Ship Date: 911024  
Trans1 Recv Date: 911024  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 911030  
Part A Recv Date: Not reported  
Part B Recv Date: 911127  
Generator EPA ID: NYD986969103  
Trans1 EPA ID: NJD096839154  
Trans2 EPA ID: Not reported  
TSDf ID: MID000724831  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Quantity: 00001  
Units: Y - Cubic yards\* (.85 tons)

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NYSDOT CONTRACT D500792 (Continued)**

**1000554446**

Number of Containers: 001  
 Container Type: DM - Metal drums, barrels  
 Handling Method: L Landfill.  
 Specific Gravity: 100  
 Year: 91

**AD180  
 NNW  
 1/8-1/4  
 0.248 mi.  
 1311 ft.**

**CON EDISON MANHOLE: 20703  
 EXTERIOR ST & E 135TH ST  
 BRONX, NY 10453**

**RCRA-CESQG**

**1016149594  
 NYP004282596**

**Site 3 of 5 in cluster AD**

**Relative:  
 Higher**

RCRA-CESQG:

Date form received by agency: 01/10/2013  
 Facility name: CON EDISON MANHOLE: 20703  
 Facility address: EXTERIOR ST & E 135TH ST  
 BRONX, NY 10453

**Actual:  
 11 ft.**

EPA ID: NYP004282596  
 Mailing address: IRVING PL, RM 828  
 NEW YORK, NY 10003

Contact: GINO FRABASILE  
 Contact address: Not reported

Contact telephone: Not reported  
 (914) 925-6219

Contact email: Not reported

EPA Region: 02  
 Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CON EDISON MANHOLE: 20703 (Continued)**

**1016149594**

Used oil transfer facility: No  
 Used oil transporter: No  
  
 Violation Status: No violations found

**AB181  
 SW  
 1/8-1/4  
 0.249 mi.  
 1313 ft.**

**CON EDISON  
 FO 210 E 127 ST  
 NEW YORK, NY 10035  
  
 Site 3 of 4 in cluster AB**

**NY MANIFEST S113816698  
 N/A**

**Relative:  
 Higher**

NY MANIFEST:  
 EPA ID: NYP004331807  
 Country: USA  
 Mailing Name: CON EDISON  
 Mailing Contact: CON EDISON  
 Mailing Address: 4 IRVING PLACE 15TH FLOOR  
 Mailing Address 2: Not reported  
 Mailing City: NEW YORK  
 Mailing State: NY  
 Mailing Zip: 10003  
 Mailing Zip4: Not reported  
 Mailing Country: USA  
 Mailing Phone: 212-460-3770

**Actual:  
 12 ft.**

Document ID: Not reported  
 Manifest Status: Not reported  
 Trans1 State ID: NJD003812047  
 Trans2 State ID: NJD003812047  
 Generator Ship Date: 19-Jul-2013 00:00:00  
 Trans1 Recv Date: 19-Jul-2013 00:00:00  
 Trans2 Recv Date: 23-Jul-2013 00:00:00  
 TSD Site Recv Date: 23-Jul-2013 00:00:00  
 Part A Recv Date: Not reported  
 Part B Recv Date: Not reported  
 Generator EPA ID: NYP004331807  
 Trans1 EPA ID: Not reported  
 Trans2 EPA ID: Not reported  
 TSD ID: NJD991291105  
 Waste Code: Not reported  
 Quantity: 500  
 Units: P - Pounds  
 Number of Containers: 1  
 Container Type: TT - Cargo tank, tank trucks  
 Handling Method: T Chemical, physical, or biological treatment.  
 Specific Gravity: 1  
 Year: 2013  
 Manifest Tracking Num: 002085343GBF  
 Import Ind: N  
 Export Ind: N  
 Discr Quantity Ind: N  
 Discr Type Ind: N  
 Discr Residue Ind: N  
 Discr Partial Reject Ind: N  
 Discr Full Reject Ind: N  
 Manifest Ref Num: Not reported  
 Alt Fac RCRA Id: Not reported  
 Alt Fac Sign Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON EDISON (Continued)**

**S113816698**

Mgmt Method Type Code: H110

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD003812047  
Trans2 State ID: NJD003812047  
Generator Ship Date: 19-Jul-2013 00:00:00  
Trans1 Recv Date: 19-Jul-2013 00:00:00  
Trans2 Recv Date: 23-Jul-2013 00:00:00  
TSD Site Recv Date: 23-Jul-2013 00:00:00  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYP004331807  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NJD991291105  
Waste Code: Not reported  
Quantity: 500  
Units: P - Pounds  
Number of Containers: 1  
Container Type: TT - Cargo tank, tank trucks  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1  
Year: 2013  
Manifest Tracking Num: 002085343GBF  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H110

AB182  
SW  
1/8-1/4  
0.250 mi.  
1318 ft.

208 E 127TH ST  
NEW YORK, NY 10035

Site 4 of 4 in cluster AB

EDR US Hist Auto Stat 1015316190  
N/A

Relative:  
Higher

EDR Historical Auto Stations:  
Name: CARORAMA BODY WORKS  
Year: 2001  
Address: 208 E 127TH ST

Actual:  
12 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AD183  
NNW  
1/8-1/4  
0.250 mi.  
1318 ft.

CONSOLIDATED EDISON  
42 EXTERIOR ST  
BRONX, NY

NY MANIFEST 1009236056  
N/A

Site 4 of 5 in cluster AD

Relative:  
Higher

NY MANIFEST:

EPA ID: NYP004004818

Country: USA

Mailing Name: CONSOLIDATED EDISON

Mailing Contact: FRANKLIN MURRAY

Mailing Address: 4 IRVING PLACE RM 828

Mailing Address 2: Not reported

Mailing City: NEW YORK

Mailing State: NY

Mailing Zip: 10003

Mailing Zip4: Not reported

Mailing Country: USA

Mailing Phone: 212-460-2808

Actual:  
11 ft.

Document ID: NJA2565016

Manifest Status: Completed copy

Trans1 State ID: S10376

Trans2 State ID: Not reported

Generator Ship Date: 970203

Trans1 Recv Date: 970203

Trans2 Recv Date: Not reported

TSD Site Recv Date: 970205

Part A Recv Date: 970214

Part B Recv Date: 970227

Generator EPA ID: NYP004004818

Trans1 EPA ID: NJD003812047

Trans2 EPA ID: Not reported

TSD ID: NJD002200046

Waste Code: D018 - BENZENE 0.5 MG/L TCLP

Quantity: 00115

Units: G - Gallons (liquids only)\* (8.3 pounds)

Number of Containers: 003

Container Type: DM - Metal drums, barrels

Handling Method: B Incineration, heat recovery, burning.

Specific Gravity: 100

Waste Code: Not reported

Quantity: 00060

Units: P - Pounds

Number of Containers: 002

Container Type: DM - Metal drums, barrels

Handling Method: B Incineration, heat recovery, burning.

Specific Gravity: 100

Year: 97

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**W184**      **UNITED PARCEL SERVICE**  
**North**     **180 CANAL PLACE**  
**1/8-1/4**    **BRONX, NY 10454**  
**0.250 mi.**  
**1319 ft.**    **Site 7 of 8 in cluster W**

**NY HIST UST**    **1000474247**  
**NY AST**         **N/A**

**Relative:**  
**Higher**

HIST UST:

**Actual:**  
**15 ft.**

PBS Number: 2-198528  
 SPDES Number: Not reported  
 Emergency Contact: MIKE MCINERNEY  
 Emergency Telephone: (212) 229-0968  
 Operator: MIKE ROCCI  
 Operator Telephone: (212) 229-0950  
 Owner Name: UNITED PARCEL SERVICE  
 Owner Address: 643 W 43RD STREET  
 Owner City,St,Zip: NYC, NY 10036  
 Owner Telephone: (212) 631-6444  
 Owner Type: Not reported  
 Owner Subtype: Not reported  
 Mailing Name: UNITED PARCEL SERVICE  
 Mailing Address: 643 WEST 43RD STREET  
 Mailing Address 2: Not reported  
 Mailing City,St,Zip: NYC, NY 10036  
 Mailing Contact: PLANT. ENG.DEPT.5TH FLOOR  
 Mailing Telephone: (212) 631-6444  
 Owner Mark: First Owner  
 Facility Status: 4 - Subpart 360-14 only (active)  
 Facility Addr2: 180 CANAL ST WEST  
 SWIS ID: 6001  
 Old PBS Number: Not reported  
 Facility Type: Not reported  
 Inspected Date: Not reported  
 Inspector: Not reported  
 Inspection Result: Not reported  
 Federal ID: Not reported  
 Certification Flag: False  
 Certification Date: 08/24/1987  
 Expiration Date: 08/24/1992  
 Renew Flag: False  
 Renewal Date: Not reported  
 Total Capacity: 250  
 FAMT: True  
 Facility Screen: Minor Data Missing  
 Owner Screen: Minor Data Missing  
 Tank Screen: No Missing Data  
 Dead Letter: True  
 CBS Number: Not reported  
 Town or City: NEW YORK CITY  
 County Code: 60  
 Town or City: 01  
 Region: 2

Tank Id: 002  
 Tank Location: UNDERGROUND  
 Tank Status: Closed-In Place  
 Install Date: Not reported  
 Capacity (gals): 550  
 Product Stored: LEADED GASOLINE  
 Tank Type: Steel/carbon steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

1000474247

Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 003  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 004  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

1000474247

Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 005  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 006  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

1000474247

Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 007  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 008  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

1000474247

Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 009  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported  
Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 010  
Tank Location: UNDERGROUND  
Tank Status: Closed-In Place  
Install Date: Not reported  
Capacity (gals): 550  
Product Stored: LEADED GASOLINE  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: GALVANIZED STEEL  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: Diking  
Leak Detection: None  
Overfill Prot: Not reported  
Dispenser: Suction  
Date Tested: Not reported  
Next Test Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**1000474247**

Missing Data for Tank: Minor Data Missing  
Date Closed: 05/01/1990  
Test Method: Not reported  
Deleted: False  
Updated: True  
Lat/long: Not reported

**AST:**

Region: STATE  
DEC Region: 2  
Site Status: Unregulated  
Facility Id: 2-198528  
Program Type: PBS  
UTM X: 590323.82955999998  
UTM Y: 4518424.7781199999  
Expiration Date: N/A  
Site Type: Trucking/Transportation/Fleet Operation

**Affiliation Records:**

Site Id: 6585  
Affiliation Type: Facility Owner  
Company Name: UNITED PARCEL SERVICE  
Contact Type: DISTRICT PLANT ENGINEER MANAGER  
Contact Name: DAVE VAN HOOK  
Address1: 643 W 43RD STREET  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10036  
Country Code: 001  
Phone: (212) 631-6444  
EMail: Not reported  
Fax Number: Not reported  
Modified By: dxliving  
Date Last Modified: 3/28/2008

Site Id: 6585  
Affiliation Type: Mail Contact  
Company Name: PLANT ENGINEERING DEPT.  
Contact Type: Not reported  
Contact Name: UNITED PARCEL SERVICE  
Address1: 643 WEST 43RD STREET  
Address2: 5TH FLOOR  
City: NEW YORK  
State: NY  
Zip Code: 10036  
Country Code: 001  
Phone: (212) 631-6444  
EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 6585  
Affiliation Type: On-Site Operator  
Company Name: UNITED PARCEL SERVICE  
Contact Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**1000474247**

Contact Name: TRICIA DIXON  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (973) 445-6437  
EMail: Not reported  
Fax Number: Not reported  
Modified By: dxliving  
Date Last Modified: 3/28/2008

Site Id: 6585  
Affiliation Type: Emergency Contact  
Company Name: UNITED PARCEL SERVICE  
Contact Type: Not reported  
Contact Name: DAVE VAN HOOK  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 631-6326  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 3/26/2009

Tank Info:

Tank Number: 001  
Tank Id: 12364  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
I00 - Overfill - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
C01 - Pipe Location - Aboveground  
H00 - Tank Leak Detection - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Closed - Removed  
Pipe Model: Not reported  
Install Date: 11/01/1995  
Capacity Gallons: 250  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED PARCEL SERVICE (Continued)**

**1000474247**

Date Tank Closed: 08/27/2007  
Register: True  
Modified By: dxliving  
Last Modified: 03/28/2008  
Material Name: Waste Oil/Used Oil

Tank Number: 002  
Tank Id: 86494  
Material Code: 0013  
Common Name of Substance: Lube Oil

Equipment Records:

C01 - Pipe Location - Aboveground  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
B01 - Tank External Protection - Painted/Asphalt Coating  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: In Service  
Pipe Model: Not reported  
Install Date: 11/01/1995  
Capacity Gallons: 250  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: 08/27/2007  
Register: True  
Modified By: dxliving  
Last Modified: 03/28/2008  
Material Name: Lube Oil

**W185**  
**North**  
**1/8-1/4**  
**0.250 mi.**  
**1319 ft.**

**U S A PORTABLE SERVICE**  
**180 CANAL ST W**  
**BRONX, NY 10459**  
**Site 8 of 8 in cluster W**

**RCRA NonGen / NLR** **1007571140**  
**NYR000127035**

**Relative:**  
**Higher**

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007  
Facility name: U S A PORTABLE SERVICE  
Facility address: 180 CANAL ST W  
BRONX, NY 10459  
EPA ID: NYR000127035  
Mailing address: LONGWOOD AVE #31  
BRONX, NY 10459  
Contact: DIANA REYES  
Contact address: LONGWOOD AVE #31  
BRONX, NY 10459  
Contact country: US  
Contact telephone: (917) 709-3093  
Contact email: Not reported

**Actual:**  
**15 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**U S A PORTABLE SERVICE (Continued)**

**1007571140**

EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: U S A PORTABLE SERVICE  
Owner/operator address: W CANAL ST  
BRONX, NY 10459

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 08/14/2004  
Owner/Op end date: Not reported

Owner/operator name: ANGEL J MERCADO  
Owner/operator address: LONGWOOD AVE #31  
BRONX, NY 10459

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 08/14/2004  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: U S A PORTABLE SERVICE  
Classification: Not a generator, verified

Date form received by agency: 08/17/2004  
Facility name: U S A PORTABLE SERVICE  
Classification: Not a generator, verified

Violation Status: No violations found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AD186  
NNW  
1/4-1/2  
0.252 mi.  
1331 ft.

EXXONMOBIL  
71 MAJOR DEEGAN NORTH  
BRONX, NY

NY LTANKS S106703552  
N/A

Site 5 of 5 in cluster AD

Relative:  
Higher

LTANKS:

Actual:  
19 ft.

Site ID: 269967  
Spill Number/Closed Date: 9103104 / 8/2/1993  
Spill Date: 6/18/1991  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: 8/2/1993  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: SIGONA  
Referred To: Not reported  
Reported to Dept: 6/18/1991  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 7/10/1991  
Spill Record Last Update: 10/2/2003  
Spiller Name: JOANNE WALLACH  
Spiller Company: EXXONMOBIL  
Spiller Address: 3225 GALLOWS ROAD  
Spiller City,St,Zip: FAIRFAX, VA 22037-001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 219858  
DEC Memo: Not reported  
Remarks: 3K TANK FAILED PETRO TITE WITH A LEAK RATE OF 3GPH,SYSTEM TEST,WILL EXCAVATE,ISOLATE & RETEST.

Material:

Site ID: 269967  
Operable Unit ID: 957144  
Operable Unit: 01  
Material ID: 425566  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXONMOBIL (Continued)**

**S106703552**

Tank Test:

Site ID: 269967  
Spill Tank Test: 1538681  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

Site ID: 115391  
Spill Number/Closed Date: 8909669 / Not Reported  
Spill Date: 1/8/1990  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Cleanup Ceased: Not reported

Cleanup Meets Standard: False

SWIS: 0301

Investigator: MJHAGGER

Referred To: Not reported

Reported to Dept: 1/8/1990

CID: Not reported

Water Affected: Not reported

Spill Notifier: Tank Tester

Last Inspection: Not reported

Recommended Penalty: False

UST Involvement: True

Remediation Phase: 4

Date Entered In Computer: 1/23/1990

Spill Record Last Update: 5/29/2013

Spiller Name: JOANNE WALLACH

Spiller Company: EXXONMOBIL OIL CORP

Spiller Address: 3225 GALLOWS RD

Spiller City,St,Zip: FAIRFAX, VA 22037-

Spiller County: 001

Spiller Contact: Not reported

Spiller Phone: Not reported

Spiller Extention: Not reported

DEC Region: 2

DER Facility ID: 100552

DEC Memo: This spill case was reassigned from DEC (Sigona) to Rommel on 02/10/2004. This spill site cleanup has been consolidated under Spill No. 8909669.07/12/04BTEX at 14,200 ppb in MW10 4/2004 gw sample. MW10 on downgradient edge of 17-K7E (southbound side) Rommel 12/28/04 Spill 0407648 at 70 Major Deegan closed and referenced to 8909669.BTEX 5784 ppb at MW10 10/04 gw sample Rommel 3/20/07 - Haggerty - Assumed management of site. Previously unassigned 3/27/07 - Haggerty - Approved Subsurface Investigation Work Plan 7/10/07 - Haggerty - On-site for drilling of new MW locations from work plan. Site consists of shallow bedrock, boulders, and compact soils making pre-clearing different. Auger met refusal throughout the site at varying depths (10-20fbg). 11/15/07 - Haggerty - reviewed Subsurface

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXONMOBIL (Continued)**

**S106703552**

Investigation Report (SIR). Groundwater depth varying throughout site (10-18fbg). Some wells dry or too little water present to sample. Supplemental Subsurface Investigation Work Plan proposed along with SIR to explain the lack of groundwater at certain locations. Groundwater thought to be in fractured bedrock. 11/20/07 - Haggerty - approved SSIWP continent upon 1 alteration. Bedrock MWs and soil borings around current dispenser islands and tank fields proposed. PM required all borings, MWs must core the first 10ft into bedrock. 12/28/07 - Haggerty - spoke with Shan Zuidema from Kleinfelder, Hydrogeologist for site. Apparently, true bedrock depths deeper than previously believed. During the original Subsurface Investigation, augers met refusal due to a semi-competent layer which wasn't true bedrock. In this supplemental investigation, air rotary was used to pass this layer and they were then able to switch back Hollow-stem auger and collect split spoons discovering deeper contaminated soil. GW was confirmed to be in the fractured bedrock. Field activities to continue to 1/9/07. 04/17/08 - Haggerty - reviewed SSIR dated 4/8/08. SSI consisted of 15 borings and the removal of 3 wells to advance further into the subsurface in those locations (MW-5, MW-6, MW-7). MW-5 and MW-6 were converted to monitoring well clusters (shallow and deep). Soil screening was performed at all boring locations. SB-13 revealed high level of BTEX contamination from ~5fbg to the terminal depth of the boring (11.5ft). A Proposed Investigation Activities section was included in the SSIR to further investigate soil contamination near SB-13 as well as to install 2 Injection Points for an upcoming pilot test. Injection of Certified potable water into Injection Points will be monitored via the surrounding MW network to ensure hydraulic inter-connectivity. I approved this additional work. Based on the result, a Pilot Test Work Plan will be composed. 6/16/08 - Haggerty: approved Preliminary Feasibility Investigation Report/Site Statue Update Report dated 6/12/08. Proposed installation of 8 additional injection points as well as a proposed Chemical Oxidation Pilot test. Reviewed expanded groundwater parameters to determine whether this site is suitable for this technology. Certain parameters indicate this technology will work. 3/30/09 - Haggerty: review Feasibility Investigation Report for the RegenOx injection Pilot test. Pilot test shows favorable results. ExxonMobil proposed an Exposure Assessment in an attempt to close out the spill. 4/17/09 - Haggerty: sent comment email to Scott Bushroe from ExxonMobil. Figure 8 (Groundwater Hydrocarbon Distribution Map for 7/25/08 and 8/21/08) must be revised and resubmitted. The BTEX and MTBE concentrations are transposed. 2. The results from the soil investigation surrounding SB-13 demonstrate the contamination is localized. Also, the contamination does not appear to be impacting downgradient groundwater. At this time, no further action is required concerning the soil contamination encountered in SB-13. 3. Results from the Feasibility Investigation are encouraging although at this time BTEX concentrations remain elevated. I propose waiting for the next round quarterly groundwater data to confirm the decrease in concentrations and at that time scheduling another round of RegenOx injection as your remedy. 4. An Exposure Assessment is not warranted at this time. Based on the groundwater data, additional injections are required. ExxonMobil opted not to remove the tanks, lines, dispensers, and over-excavate and therefore, the remaining contamination is ExxonMobil's responsibility and not that of the new operator. 5/20/09 - Haggerty: spoke with ExxonMobil at our bi-annual program meeting. ExxonMobil will prepare RAP for further

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXONMOBIL (Continued)**

**S106703552**

injections.11/4/09 - Haggerty: met with Exxon at our bi-annual program meeting. At our last program meeting, the Dept. required them to perform full-scale injection under a RAP/ Consent Order. Exxon had previously proposed submitting the RAP by 12/31/09 (which would be 7 months after the Dept. required the RAP) which Dept. had previously informed Exxon that was unacceptable. In addition, ExxonMobil legal states that they will not sign a Consent Order without an approved RAP and CAP. This is also unacceptable to the Dept. Therefore, the Dept. will issue a PIN to complete the remediation.11/6/09 - Haggerty: PIN 05118 issued. Envirotrac will be our consultant. The Scope of Work was attached to the signed call out.April '1010 injection points installed by ExxonMobil to deliver RegenOx and Activator. RegenOx injection pilot test demonstrated good results. ExxonMobil proposed doing an Exposure Assessment instead of proceeding with additional injections. PM replied stating an Exposure Assessment is not warranted at this time and additional injections are required as they remedy. ExxonMobil requested a meeting to discuss the matter further. Met with Exxon/ Kleinfelder at on May 20, 2009 at our program meeting. PM explained that an Exposure Assessment can only be submitted when remediation is complete and residual contamination exists, not in place of remediation. Full Scale injection will be implemented. Referred site to Scott Owens for Consent Order. Mobil proposed submitting the RAP by 12/31/09 which would give Mobil over 7 months since the Dept required them to perform full-scale injection as their remedy. The Dept. issued a PIN. Dept. executed access agreement with the NYC Dept. of Parks which owns the land (Major Deegan Expressway runs through Van Cortlandt Park). The gas stations are leased from the NYCDOP. Envirotrac is the Dept. contractor for the full-scale injection. PM sent Underground Injection Control (UIC) EPA 30 day notification on12/28/09 and received EPA response on 1/19/10. Injection took place on 2/17/10 after finally received access from Parks Dept. First post-injection sampling took place on 3/17/10. All wells below 1,000ppb of BTEX-----

-----May '10BTEX concentrations rebounded back to pre-(2nd)injection concentrations which was expected. Unfortunately, due to the lack of funds in the Spill Fund, all future work has been postponed until further notice.July 2010 - no changeAugust 2012 - received permission to conduct one round of GW samplingDecember 2012 - reviewed groundwater sampling report and VOC concentrations have decreased. A discussion with my Section Chief is needed to determine the next stepMay 2013 - PM will schedule time to discuss with Section Chief

Remarks: 3K TANK (NOT INVOLVED), LINE TEST ONLY FAILED PETRO TITE WITH A LEAK RATE OF -.028GPH, DISCHARGE LINE TEST FAILED , TANK SYSTEM TAKEN OUT OF SERVICE.

Material:  
Site ID: 115391  
Operable Unit ID: 936780  
Operable Unit: 01  
Material ID: 442824  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXONMOBIL (Continued)**

**S106703552**

Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

**Tank Test:**

Site ID: 115391  
Spill Tank Test: 1536649  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

**Y187  
NE  
1/4-1/2  
0.262 mi.  
1381 ft.**

**BORINQUEN COURT  
271 - 285 E. 138TH ST  
BRONX, NY 10454**

**NY INST CONTROL S116041516  
N/A**

**Site 4 of 6 in cluster Y**

**Relative:  
Higher**

**INST CONTROL:**

**Actual:  
22 ft.**

Site Code: 443691  
Control Name: IC/EC Plan  
HW Code: C203056  
Control Code: 34  
Control Type: INST  
Dt record added: 10/25/2013  
Dt rec updated: 12/20/2013  
Updated By: IXMUNTEA  
Site Code: 443691

Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project

MAP FINDINGS

**BORINQUEN COURT (Continued)**

**S116041516**

confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

Env Problem: Nature and Extent of Contamination: Prior to Remediation Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatile organic compounds (VOCs) were present in the subsurface. These contaminants are impacting soil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation. Soil - The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). Groundwater - VOCs detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. Soil Vapor - PCE was detected in three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. Post-Remediation Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

Health Problem: Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Site Code: 443691  
Control Name: Environmental Easement  
HW Code: C203056  
Control Code: J  
Control Type: INST  
Dt record added: 10/25/2013  
Dt rec updated: 12/20/2013  
Updated By: IXMUNTEA  
Site Code: 443691  
Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site

MAP FINDINGS

**BORINQUEN COURT (Continued)**

**S116041516**

**Features:**The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. **Historical Uses:**Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. **Geology and Hydrogeology:**The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

**Env Problem:**

**Nature and Extent of Contamination:**Prior to RemediationBased on the investigations conducted to date, known contaminants including chlorinatedsolvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatileorganic compounds (VOCs) were present in the subsurface. These contaminants are impactingsoil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation.**Soil -** The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm(restricted residential SCO of 100 ppm).**Groundwater - VOCs** detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb.**Soil Vapor -** PCE was detected in three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary.**Significant Threat:**NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. **Post-Remediation**Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

**Health Problem:**

Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BORINQUEN COURT (Continued)**

**S116041516**

Site Code: 443691  
Control Name: Building Use Restriction  
HW Code: C203056  
Control Code: 26  
Control Type: INST  
Dt record added: 10/25/2013  
Dt rec updated: 12/20/2013  
Updated By: IXMUNTEA  
Site Code: 443691  
Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.  
Env Problem: Nature and Extent of Contamination: Prior to Remediation Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatile organic compounds (VOCs) were present in the subsurface. These contaminants are impacting soil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation. Soil - The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). Groundwater - VOCs detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. Soil Vapor - PCE was detected in three out of the four soil vapor samples and TCE was detected in only

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BORINQUEN COURT (Continued)**

**S116041516**

one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. Post-Remediation Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

Health Problem: Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Site Code: 443691  
Control Name: Monitoring Plan  
HW Code: C203056  
Control Code: 31  
Control Type: INST  
Dt record added: 10/25/2013  
Dt rec updated: 12/20/2013  
Updated By: IXMUNTEA  
Site Code: 443691

Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

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MAP FINDINGS

**BORINQUEN COURT (Continued)**

**S116041516**

concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). Groundwater - VOCs detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. Soil Vapor - PCE was detected in three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. Post-Remediation Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

Health Problem: Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Site Code: 443691  
Control Name: Site Management Plan  
HW Code: C203056  
Control Code: 32  
Control Type: INST  
Dt record added: 10/25/2013  
Dt rec updated: 12/20/2013  
Updated By: IXMUNTEA  
Site Code: 443691

Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BORINQUEN COURT (Continued)**

**S116041516**

Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

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Health Problem: Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Site Code: 443691  
Control Name: Soil Management Plan  
HW Code: C203056  
Control Code: 14  
Control Type: INST  
Dt record added: 10/25/2013  
Dt rec updated: 12/20/2013  
Updated By: IXMUNTEA  
Site Code: 443691

MAP FINDINGS

**BORINQUEN COURT (Continued)**

**S116041516**

**Site Description:** Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. **Site Features:** The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. **Historical Uses:** Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. **Geology and Hydrogeology:** The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

**Env Problem:** **Nature and Extent of Contamination:** Prior to Remediation Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatile organic compounds (VOCs) were present in the subsurface. These contaminants are impacting soil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation. **Soil -** The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). **Groundwater - VOCs** detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. **Soil Vapor -** PCE was detected in three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. **Significant Threat:** NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. **Post-Remediation** Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December

MAP FINDINGS

**BORINQUEN COURT (Continued)**

**S116041516**

19, 2013.

Health Problem: Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Site Code: 443691

Control Name: Ground Water Use Restriction

HW Code: C203056

Control Code: 08

Control Type: INST

Dt record added: 10/25/2013

Dt rec updated: 12/20/2013

Updated By: IXMUNTEA

Site Code: 443691

Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

Env Problem: Nature and Extent of Contamination: Prior to Remediation Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatile organic compounds (VOCs) were present in the subsurface. These contaminants are impacting soil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation. Soil - The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). Groundwater - VOCs

MAP FINDINGS

**BORINQUEN COURT (Continued)**

**S116041516**

detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. Soil Vapor - PCE was detected in three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. Post-Remediation Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

Health Problem: Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Site Code: 443691  
Control Name: Landuse Restriction  
HW Code: C203056  
Control Code: 25  
Control Type: INST  
Dt record added: 10/25/2013  
Dt rec updated: 12/20/2013  
Updated By: IXMUNTEA  
Site Code: 443691

Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BORINQUEN COURT (Continued)**

**S116041516**

**Env Problem:** Nature and Extent of Contamination: Prior to Remediation Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatile organic compounds (VOCs) were present in the subsurface. These contaminants are impacting soil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation. Soil - The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). Groundwater - VOCs detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. Soil Vapor - PCE was detected in three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. Post-Remediation Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

**Health Problem:** Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

**Y188  
 NE  
 1/4-1/2  
 0.262 mi.  
 1381 ft.**

**BORINQUEN COURT  
 271 - 285 E. 138TH ST  
 BRONX, NY 10454  
 Site 5 of 6 in cluster Y**

**NY ENG CONTROLS S116041510  
 N/A**

**Relative:  
 Higher**

**ENG CONTROLS:**

Site Code: 443691  
 HW Code: C203056  
 Control Code: 15  
 Control Type: ENG  
 Date Record Added: 10/25/2013  
 Date Rec Updated: 12/20/2013  
 Updated By: IXMUNTEA

**Actual:  
 22 ft.**

**Site Description:** Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BORINQUEN COURT (Continued)**

**S116041510**

residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

Env Problem:

Nature and Extent of Contamination: Prior to Remediation Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatile organic compounds (VOCs) were present in the subsurface. These contaminants are impacting soil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation. Soil - The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). Groundwater - VOCs detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. Soil Vapor - PCE was detected in three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. Post-Remediation Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

Health Problem:

Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BORINQUEN COURT (Continued)**

**S116041510**

contamination.

**Y189  
 NE  
 1/4-1/2  
 0.262 mi.  
 1381 ft.**

**BORINQUEN COURT  
 271 - 285 E. 138TH ST  
 BRONX, NY 10454  
 Site 6 of 6 in cluster Y**

**NY BROWNFIELDS S116041494  
 N/A**

**Relative:  
 Higher**

**BROWNFIELDS:**

Program: BCP  
 Site Code: 443691

**Actual:  
 22 ft.**

Site Description: Location: The site is approximate 1.8 acres, located at 285 East 138th Street in the Bronx. The Site is bordered on the west by the 3rd Avenues, to the north by East 139th St., to the east by residential buildings and the NYC Police Department 40th Precinct, and to the south by East 138th St. Properties surrounding the site are primarily residential, with some commercial and industrial uses. Site Features: The Site is currently occupied by a 7-story residential building, home for low-income senior citizens. Historical Uses: Former uses on the Site include a gasoline filling station with five 550-gallon underground storage tanks (USTs), which has operated on the southwest corner of the property for at least 40 years prior to 1968. A parking garage and auto repair facility with 2 USTs occupied the north-central part of the site from at least 1935 through 1978. A metal work shop was located on the southeast portion of the site from 1951 through 1978, and a mattress manufacturing factory was located on the northwest part of the site from 1944 through 1978. Geology and Hydrogeology: The 2011 remedial investigation (RI), revealed soils consisting mainly of clayey sands to silt mixtures in the 20-25 feet bg drilled borings. Refusal was encountered in one of the soil borings (SB-01) at 20 feet below ground surface (bgs). All other borings were completed to 25 feet bgs without encountering bedrock. On-Site groundwater levels measured over the course of the RI project confirm the depth to groundwater to be in the range of approximately 13 to 17 feet bgs with flow toward the southwest. Certificate of Completion issued on 12/19/2013.

Env Problem: Nature and Extent of Contamination: Prior to Remediation Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, pesticides and other volatile organic compounds (VOCs) were present in the subsurface. These contaminants are impacting soil, groundwater, and soil vapor. Previous investigations included a Phase I Environmental Site Assessment and a Remedial Investigation. Soil - The concentrations of metals (barium, copper, mercury, lead and zinc), 4,4-DDT, toluene, ethylbenzene and PAHs exceeded the UUSCOs in the samples collected from 0 to 10 feet in four borings installed across the Site (SB-04, SB-08 and SB-09). The concentrations of 4,4-DDE, 4,4-DDT, lead and PAHs exceeded UUSCOs in the 10-20 foot interval in only three borings (SB-04, SB-06 and SB-10). Ethylbenzene ranged from 0 to 1.4 ppm (restricted residential SCO of 41 ppm, Groundwater Protection SCO of 1 ppm) and toluene ranged from 0 to 1.1 ppm (restricted residential SCO of 100 ppm). Groundwater - VOCs detected in groundwater samples collected were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), ethylbenzene, meta- (m)/para- (p) xylene and isopropylbenzene. PCE ranged from 0 to 19 ppb, TCE ranged from 0 to 25 ppb, cis-1,2-DCE ranged from 22 to 43 ppb, m/p-xylenes ranged from 0 to 19 ppb, and propylbenzene ranged from 0 to 11 ppb. Soil Vapor - PCE was detected in



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BORINQUEN COURT (Continued)**

**S116041494**

three out of the four soil vapor samples and TCE was detected in only one sample at 2 ug/ m3. PCE ranged from 0 to 75 ug/ m3. Based on this data, soil vapor intrusion into on-site buildings is not occurring and no mitigation was necessary. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to the public health or environment. Post-Remediation Remediation at the site is complete. Residual contamination in soil and groundwater is being managed under a Site Management Plan. Residual contamination in the soil, groundwater, and sediment is being managed under a Site Management Plan. The Certificate of Completion was issued on December 19, 2013.

Health Problem: Measures are in place to control the potential for coming in contact with subsurface soil and groundwater remaining on the site. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

**U190**  
**SSW**  
 1/4-1/2  
 0.262 mi.  
 1385 ft.

**DEPOT 126TH ST**  
**2460 2ND AVE**  
**MANHATTAN, NY**  
 Site 6 of 7 in cluster U

**NY LTANKS** **S102143739**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

**LTANKS:**

Site ID: 174482  
 Spill Number/Closed Date: 9709477 / 4/12/2004  
 Spill Date: 11/14/1997  
 Spill Cause: Tank Failure  
 Spill Source: Commercial/Industrial  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 3101  
 Investigator: MCTIBBE  
 Referred To: Not reported  
 Reported to Dept: 11/14/1997  
 CID: 369  
 Water Affected: Not reported  
 Spill Notifier: Tank Tester  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: True  
 Remediation Phase: 0  
 Date Entered In Computer: 11/14/1997  
 Spill Record Last Update: 4/13/2004  
 Spiller Name: Not reported  
 Spiller Company: NYCT  
 Spiller Address: 2460 SECOND AVE  
 Spiller City, St, Zip: NEW YORK, ZZ  
 Spiller County: 001  
 Spiller Contact: Not reported  
 Spiller Phone: Not reported  
 Spiller Extention: Not reported  
 DEC Region: 2  
 DER Facility ID: 146729  
 DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIBBE" TRANSFERRED FROM hALE TO tIBBE ON 10/15/03. NYCT DOB has no information about this tank failure other than there was a pressure

**Actual:**  
**12 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEPOT 126TH ST (Continued)**

**S102143739**

Remarks: loss of the inner tank and the secondary held. The inner and outer tanks for 7&8 were tested again on 05/22/02 and they passed. double wall fiberglass tank #7 and #8 failed due to pressure loss inside tank

Material:

Site ID: 174482  
Operable Unit ID: 1052558  
Operable Unit: 01  
Material ID: 327825  
Material Code: 0008  
Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

SPILLS:

Facility ID: 9212527  
Facility Type: ER  
DER Facility ID: 193234  
Site ID: 163569  
DEC Region: 2  
Spill Date: 2/4/1993  
Spill Number/Closed Date: 9212527 / 12/27/2000  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: MCTIBBE  
Referred To: Not reported  
Reported to Dept: 2/4/1993  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2/8/1993  
Spill Record Last Update: 12/27/2000  
Spiller Name: Not reported  
Spiller Company: NYCTA  
Spiller Address: 2460 2ND AVE  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEPOT 126TH ST (Continued)**

**S102143739**

Contact Phone: Not reported  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIBBE" TRANSFERED FROM HALE TO TIBBE ON 12/27/00. REFER TO 90-07322. REMEDIATION ONGOING.  
Remarks: DURING TANK TEST PRODUCT VISIBLE ON TOP OF WATER IN MANWAY-NYCFD ON SITE NYCDEP NOTIFIED NO CALL BACK

Material:

Site ID: 163569  
Operable Unit ID: 976961  
Operable Unit: 01  
Material ID: 402370  
Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 1209736  
Facility Type: ER  
DER Facility ID: 427056  
Site ID: 472806  
DEC Region: 2  
Spill Date: 11/8/2012  
Spill Number/Closed Date: 1209736 / 1/9/2013  
Spill Cause: Storm  
Spill Class: Not reported  
SWIS: 3101  
Investigator: HRPATEL  
Referred To: Not reported  
Reported to Dept: 11/8/2012  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 11/8/2012  
Spill Record Last Update: 1/9/2013  
Spiller Name: SHERRY BULKLAY  
Spiller Company: NYC TRANSIT MAINTENANCE  
Spiller Address: 2460 2ND AVE  
Spiller City,St,Zip: MANHATTAN, NY  
Spiller Company: 999  
Contact Name: SHERRY BULKLAY  
Contact Phone: (646) 879-1433

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DEPOT 126TH ST (Continued)**

**S102143739**

DEC Memo: 11/23/12-Hiralkumar Patel.2:20 PM:- spoke with Sherry. she mentioned that waste oil spilled as waste oil tank flooded during storm. spill was contained inside the property on concrete floor and has been cleaned up.11/26/12-Hiralkumar Patel. visited site. met Elizabeth Roman at depot. inspected spill area. the waste oil tank located in concrete box in repair shop. water got into the tank and pushed oil out. as per Ms. Roman, oil was contained in repair shop. all cleaned up.Elizabeth RomanAssistant General ManagerDepot OperationsPh. (212) 712-5600 (O) (917) 468-3112 (C)Fax (212) 712-5602email: elizabeth.roman@nyc.com01/09/13-Hiralkumar Patel. after discussion with DEC Austin, case closed based on observations during the site visit on 11/23/12.

Remarks: Waste Oil storage tanks flooded and spilled out onto ground and standing flood waters.

Material:  
 Site ID: 472806  
 Operable Unit ID: 1222660  
 Operable Unit: 01  
 Material ID: 2221397  
 Material Code: 0022  
 Material Name: Waste Oil/Used Oil  
 Case No.: Not reported  
 Material FA: Petroleum  
 Quantity: 300  
 Units: Gallons  
 Recovered: Not reported  
 Resource Affected: Not reported  
 Oxygenate: False

Tank Test:

U191  
 SSW  
 1/4-1/2  
 0.262 mi.  
 1385 ft.

**126TH ST DEPOT -NYCT  
 2460 SECOND AVENUE  
 MANHATTAN, NY**  
**Site 7 of 7 in cluster U**

**NY LTANKS S106702967  
 NY Spills N/A**

Relative:  
 Higher

LTANKS:  
 Site ID: 174484  
 Spill Number/Closed Date: 9912782 / 5/4/2004  
 Spill Date: 2/9/2000  
 Spill Cause: Tank Test Failure  
 Spill Source: Commercial/Industrial  
 Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 3101  
 Investigator: MCTIBBE  
 Referred To: Not reported  
 Reported to Dept: 2/9/2000  
 CID: 207  
 Water Affected: Not reported  
 Spill Notifier: Tank Tester  
 Last Inspection: Not reported  
 Recommended Penalty: False

Actual:  
 12 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

126TH ST DEPOT -NYCT (Continued)

S106702967

UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 2/9/2000  
Spill Record Last Update: 5/4/2004  
Spiller Name: Not reported  
Spiller Company: Not reported  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*Update\*\*\*, ZZ  
Spiller County: 001  
Spiller Contact: JAMES MCCULLAGH  
Spiller Phone: (516) 293-8800  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 146729  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIBBE" After upgrade of tank, a test was performed before it was returned to service. The tank failed. It was determined that the failure was in the neck of the tank manway within the sump. The leak was repaired and the tank was retested and passed. Sump has subsequently been tested and passed so there was no release to the environment.  
Remarks: gross fail - tank contained diesel

Material:

Tank Test:

Site ID: 174484  
Spill Tank Test: 1548042  
Tank Number: 1  
Tank Size: 4000  
Test Method: 20  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: USTest 2000/P/LL plus USTest 2000/U

Site ID: 174481  
Spill Number/Closed Date: 9007322 / 6/30/2005  
Spill Date: 10/3/1990  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: MCTIBBE  
Referred To: Not reported  
Reported to Dept: 10/4/1990  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

126TH ST DEPOT -NYCT (Continued)

S106702967

UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 10/10/1990  
Spill Record Last Update: 6/30/2005  
Spiller Name: Not reported  
Spiller Company: NYCTA  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 193234  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIBBE"10/04/90: ON 10/09/90, (3) ADDITIONAL 5K TANKS FAILED AIR TEST & WERE TAKEN OUT OF SERVICE, (1) PASSING TANK STILL IN SERVICE, FILL LINE TESTED,FILL LINE WAS LEAKING,1/7/91. 11/15/94: REASSIGNED FROM SIGONA TO ZHITOMIRSKY ON 11/15/94. TRANSFERED FROM HALE TO TIBBE ON 12/27/00. TANKS REPAIRED/REPLACED/UPGRADED. REMEDIATION ONGOING.SEE ALSO 92-12527, 95-01800 & 99-03002.Refer to 88-08896.  
Remarks: (2) 2K TANKS HAD AIR TEST,TANK #1 FAILED,2ND TANK PASSED,PART OF ONGOING SITE INVESTIGATION FOR REMEDIAL ACTION,TANK #1 TAKEN OUT OF SERVICE& PUMPED,TO BE REPLACED,4 OR 5 MONITORING WELLS ON SITE.

Material:  
Site ID: 174481  
Operable Unit ID: 944668  
Operable Unit: 01  
Material ID: 434740  
Material Code: 0008  
Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:  
Site ID: 174481  
Spill Tank Test: 1537650  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

SPILLS:  
Facility ID: 8808896  
Facility Type: ER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

126TH ST DEPOT -NYCT (Continued)

S106702967

DER Facility ID: 193234  
Site ID: 316443  
DEC Region: 2  
Spill Date: 2/14/1989  
Spill Number/Closed Date: 8808896 / Not Reported  
Spill Cause: Unknown  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: RVKETANI  
Referred To: 042612 GROUNDWATER MONITORING  
Reported to Dept: 2/14/1989  
CID: Not reported  
Water Affected: 060712 MONTHLY MONIT  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: DEC  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: True  
Remediation Phase: 5  
Date Entered In Computer: 4/5/1989  
Spill Record Last Update: 12/18/2012  
Spiller Name: Not reported  
Spiller Company: TRANSIT AUTHORITY  
Spiller Address: Not reported  
Spiller City,St,Zip: BROOKLYN, ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIBBE"11/14/94: REASSIGNED FROM SIGONA TO ZHITOMIRSKY ON 11/14/94. TRANSFERED FROM HLAE TO TIBBE ON 12/27/00. SEE ALSO 88-08930, 88-09111 & 90-07322. TANKS REPLACED/REPAIRED/UPGRADED. REMEDIATION ONGOING. 06-17-08: Spill # 0502231 has been closed and consolidated under this number. 0502231 was a release of #4 heating during a delievery from a disconnected fill line. 801 gallons were delievered before the problem was discovered. NYCT DOB determined that 439 gallons of fuel oil were recovered during immediate cleanup, 68 gallons were recovered from the facility's oil/water separator system, and at least 109 gallons and as much as 275 gallons of the remaining fuel oil spilled into the UST via the open fill pipe. Based on these volumes, between 19 and 185 gallons of fuel oil could have spilled into the pea gravel surrounding the USTs. The residual contamination will be addressed during the full site remediation.11/12/10 - spill re-assigned from Tibbe to Joe O'Connell5/19/2011 The spill was reassigned from Joe O'Connell to Linda Ross2/27/12 - Raphael Ketani. Spill reassigned to me during February 2012. Monthly progress update meetings are taking place.4/26/12 - Raphael Ketani. Monthly groundwater monitoring is being performed by URS.12/18/12 - Raphael Ketani. There have been monthly to bimonthly (once every two months) update meetings with the NYCT regarding this and 17 other sites. The information for the sites is in the UIS under e-docs, multiple sites, DER, Region 2, Petroleum Spills, NYCT.

Remarks: DISCONNECTED & EXCAVATED TANK.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

126TH ST DEPOT -NYCT (Continued)

S106702967

Material:

Site ID: 316443  
Operable Unit ID: 924790  
Operable Unit: 01  
Material ID: 2147661  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 801  
Units: Gallons  
Recovered: 700  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 316443  
Operable Unit ID: 924790  
Operable Unit: 01  
Material ID: 1971143  
Material Code: 0008  
Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Gallons  
Recovered: Yes  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 316443  
Operable Unit ID: 924790  
Operable Unit: 01  
Material ID: 453655  
Material Code: 0022  
Material Name: Waste Oil/Used Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 100  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Z192  
NNE  
1/4-1/2  
0.263 mi.  
1388 ft.

138TH ST / RIDER AVE /  
138TH ST / RIDER AVE  
NEW YORK, NY  
Site 3 of 3 in cluster Z

NY LTANKS S102671153  
N/A

Relative:  
Higher

LTANKS:  
Site ID: 163341  
Spill Number/Closed Date: 8607426 / 3/7/1987  
Spill Date: 3/7/1987  
Spill Cause: Tank Overfill  
Spill Source: Tank Truck  
Spill Class: Not reported

Actual:  
19 ft.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**138TH ST / RIDER AVE / (Continued)**

**S102671153**

Cleanup Ceased: 3/7/1987  
Cleanup Meets Standard: True  
SWIS: 0301  
Investigator: UNASSIGNED  
Referred To: Not reported  
Reported to Dept: 3/7/1987  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 4/3/1987  
Spill Record Last Update: 11/1/2002  
Spiller Name: Not reported  
Spiller Company: LITC  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 274309  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was " "  
Not reported  
Remarks: MPC WILL VACUUM SPILL AT 11:00.

Material:  
Site ID: 163341  
Operable Unit ID: 905180  
Operable Unit: 01  
Material ID: 472931  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AE193  
ESE  
1/4-1/2  
0.267 mi.  
1412 ft.

**BUSINESS**  
**91 BRUCKNER BLVD**  
**BRONX, NY**  
**Site 1 of 2 in cluster AE**

**NY LTANKS** **S107523324**  
**N/A**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**26 ft.**

Site ID: 357736  
Spill Number/Closed Date: 0511553 / 3/6/2006  
Spill Date: 1/5/2006  
Spill Cause: Tank Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: Con Ed Unassigned  
Referred To: Not reported  
Reported to Dept: 1/6/2006  
CID: 444  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1/6/2006  
Spill Record Last Update: 3/6/2006  
Spiller Name: JEFFREY FIEDLER  
Spiller Company: BUSINESS  
Spiller Address: 91 BRUCKNER BLVD  
Spiller City,St,Zip: BRONX, NY  
Spiller County: 001  
Spiller Contact: JEFFREY FIEDLER  
Spiller Phone: (718) 993-4100  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 307781  
DEC Memo: 01/06/06. Feroze. TTF is send to:Jeffrey FielderFielder Roofing, 91  
Bruckner Blvd, Bronx, NY 1045403/06/06 Feroze talked with Ms. Agata  
718-993-4100. She told me that she has sent all documents to DEC. In  
documents I found a certificate given by Absolute Tank Testing lcc.  
(203-876-7430) taht there was no detectable leaks in the tank. They  
submitted me the tank test result and the result is passed. The spill  
is closed.

Remarks: PBS No: 2-6052821500 GALLON TANK :

Material:

Site ID: 357736  
Operable Unit ID: 1115003  
Operable Unit: 01  
Material ID: 2105065  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUSINESS (Continued)**

**S107523324**

Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**AA194**  
**ENE**  
**1/4-1/2**  
**0.268 mi.**  
**1417 ft.**

**CLOSED-LACKOF RECENT INFO**  
**230 ALEXANDER AVE.**  
**NEW YORK CITY, NY**  
**Site 3 of 3 in cluster AA**

**NY LTANKS** **S100144791**  
**N/A**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**31 ft.**

Site ID: 65873  
Spill Number/Closed Date: 8705434 / 3/4/2003  
Spill Date: 9/28/1987  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: ADMIN. CLOSED  
Referred To: Not reported  
Reported to Dept: 9/28/1987  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 9/30/1987  
Spill Record Last Update: 3/14/2003  
Spiller Name: Not reported  
Spiller Company: ST. JEROME'S CHURCH  
Spiller Address: 230 ALEXANDER AVE.  
Spiller City,St,Zip: BX, NY  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 63165  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ADMIN.CLOSED" // : Excavate And Determine Source Of Leak. 03/04/2003-Closed Due To The Nature / Extent Of The Spill Report

Remarks: HIGH VOLUME LEAK.-CLOSED DUE TO LACK OF ANY RECENT INFO- DOES NOT MEET ANY CLEAN UP REQUIREMENTS.

Material:

Site ID: 65873  
Operable Unit ID: 911632  
Operable Unit: 01  
Material ID: 468038

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CLOSED-LACKOF RECENT INFO (Continued)**

**S100144791**

Material Code: 0002A  
 Material Name: #4 Fuel Oil  
 Case No.: Not reported  
 Material FA: Petroleum  
 Quantity: -1  
 Units: Pounds  
 Recovered: No  
 Resource Affected: Not reported  
 Oxygenate: False

**Tank Test:**

Site ID: 65873  
 Spill Tank Test: 1531755  
 Tank Number: Not reported  
 Tank Size: 0  
 Test Method: 00  
 Leak Rate: 0  
 Gross Fail: Not reported  
 Modified By: Spills  
 Last Modified: 10/1/2004  
 Test Method: Unknown

**AF195**  
**NNE**  
**1/4-1/2**  
**0.274 mi.**  
**1448 ft.**

**FORMER G & C SERVICES**  
**255 EAST 138TH STREET**  
**BRONX, NY 10451**  
**Site 1 of 3 in cluster AF**

**NY BROWNFIELDS** **S110768286**  
**N/A**

**Relative:**  
**Higher**

**BROWNFIELDS:**

Program: BCP  
 Site Code: 444720

**Actual:**  
**21 ft.**

Site Description: Location: The site is located at 255 East 138th Street, between Rider Avenue and Third Avenue, in the Bronx. The site is identified as Block 2333, Lot 1. Site Features: The site is approximately 20,000 square feet and is currently vacant with no on-site structures. Current Zoning/Uses: The property is in a special mixed-use district, zoned M1-4/R7X (manufacturing/ residential). The site is currently vacant and has not been used since 2006. To the north are large, multi-story former industrial buildings, to the west is a one-story garage building currently used for parking and storage, to the east (across Third Avenue and Morris Avenue) is a senior citizen residential building and to the south (across East 138th Street) is an abandoned gas station and commercial storefronts with residential apartments above. Past Use of the Site: Most recently, the eastern portion of the site (formerly known as 2551 3rd Avenue) was occupied by a KFC restaurant (approximately 1969 to 2006, demolished in 2012). Prior to that, the site was used as a gas station and machine shop from approximately 1935 to 1969 (originally identified as City Gas and later Cities Service Oil Company). The western portion of the site (formerly known as 245 East 138th Street) has been operated as a machine shop, gasoline station, and auto repair facility by various operators for 80 years, most recently as a Getty gas station and auto repair shop. Site Geology and Hydrogeology: Depth to groundwater has been measured at 4.75 to 6.32 feet below ground surface and flows to the southwest. The geology generally consists of dark brown sand from 0 to 4 feet below grade, with evidence of urban fill material such as

**FORMER G & C SERVICES (Continued)**

**S110768286**

concrete, brick, asphalt, and gravel. Dark brown to gray-black sand is generally present from 4 to 12 feet below grade. Bedrock has not been identified in the top 25 feet below surface grade.

Env Problem: Nature and Extent of Contamination: The primary contaminants of concern at the site are semi-volatile organic compounds (SVOCs) and metals, which appear to be related to the presence of historic fill material. Two spills have been reported and closed for the site. On June 27, 2007, Spill No. 0703567 was reported for the eastern portion of the site when contamination was discovered during the removal of underground storage tanks from the former gas station. Contaminated soil was excavated and backfilled and end-point samples were analyzed. The spill was closed in May 2008. A spill was also reported for the western portion of the site on June 29, 1998 (NYSDEC Spill No. 9804000), due to contamination identified during the removal of five underground storage tanks, pump islands and associated piping. Contaminated soil was excavated and disposed off-site; subsequent remedial activity and monitoring at the site was performed under the Spill Response Program between 1998 and 2006. The spill was closed on November 3, 2006. The Remedial Investigation indicated that petroleum-related volatile organic compounds (VOCs) from the historical petroleum spills have largely been mitigated, but are still present in soil, groundwater, and soil vapor. Soil: VOCs related to the previous petroleum spills on the site were identified in two soil borings in the southwest corner of the site at a depth of 5.5 to 7.5 feet below grade. In this area, ethylbenzene was detected at a concentration of 45.8 parts per million (ppm) compared to the Unrestricted Use Soil Cleanup Objective (UUSCO) of 8.4 ppm; 1,2,4-trimethylbenzene at 206 ppm compared to the UUSCO of 3.6 ppm; xylene at 71.9 ppm compared to the UUSCO of 0.26 ppm; and naphthalene at 22.6 ppm compared to the UUSCO of 12 ppm. Outside of this limited area, the primary contaminants identified in soil are semi-volatile organic compounds (SVOCs) and metals, which appear to be related to the presence of historic fill material. These contaminants are present site-wide primarily at depths of 3 to 5 feet below surface grade. Contaminants decrease in presence and concentration in deeper soil. SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs), include: benzo(a)anthracene detected at a maximum of 10.8 ppm, benzo(a)pyrene at a maximum of 10.1 ppm, benzo(b)fluoranthene at a maximum of 11.9 ppm, and chrysene at a maximum of 12.7 ppm. By comparison, the UUSCO for all of these compounds is 1 ppm. Metals include: arsenic at a maximum concentration of 49.3 ppm compared to the UUSCO of 13 ppm; lead at a maximum of 2290 ppm compared to the UUSCO of 63 ppm; copper at a maximum of 718 ppm compared to the UUSCO of 50 ppm; and chromium at a maximum of 35.8 ppm compared to the UUSCO of 30 ppm. Groundwater: Groundwater beneath the site is contaminated with petroleum-related VOCs which are associated with the spills from the former gasoline stations. Groundwater contamination is limited to the western portion of the site. Contaminants of concern in groundwater include: benzene detected at a maximum concentration of 388 parts per billion (ppb); toluene at a maximum concentration of 26.2 ppb; ethylbenzene at a maximum concentration of 122 ppb; and n-propylbenzene at a maximum concentration of 451 ppb. The NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) for these contaminants are 1 ppb for benzene and 5 ppb for toluene, ethylbenzene, and n-propylbenzene. Soil Vapor: Multiple VOCs were identified in soil vapor across the site. Tetrachloroethylene (PCE)

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FORMER G & C SERVICES (Continued)**

**S110768286**

was detected in 5 of 6 soil vapor samples at concentrations ranging from 210 micrograms per cubic meter (ug/m3) to 373 ug/m3. The investigation indicates that the presence of PCE in soil vapor can likely be attributed to an off-site source, due to the lack of PCE in on-site soil or groundwater. Significant Threat: NYSDEC and NYSDOH have determined that this site does not pose a significant threat to human health or the environment.

Health Problem: The site is completely fenced, which restricts public access. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because the site is vacant, the inhalation of contaminants due to soil vapor intrusion does not represent a current concern. On-site contamination is not contributing to off-site vapor intrusion exposures.

**AG196**  
**West**  
**1/4-1/2**  
**0.274 mi.**  
**1448 ft.**

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES**  
**110 EAST 129TH STREET**  
**NEW YORK, NY 10029**

**NY LTANKS**    **U001840718**  
**NY UST**        **N/A**  
**NY Spills**

**Site 1 of 2 in cluster AG**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**18 ft.**

Site ID: 104073  
 Spill Number/Closed Date: 9315465 / 2/27/2004  
 Spill Date: 1/16/1992  
 Spill Cause: Tank Test Failure  
 Spill Source: Institutional, Educational, Gov., Other  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 3101  
 Investigator: JAKOLLEE  
 Referred To: Not reported  
 Reported to Dept: 3/30/1994  
 CID: Not reported  
 Water Affected: Not reported  
 Spill Notifier: DEC  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: False  
 Remediation Phase: 0  
 Date Entered In Computer: 4/5/1994  
 Spill Record Last Update: 1/3/2006  
 Spiller Name: Not reported  
 Spiller Company: NYCHA - JOE MONTELLA  
 Spiller Address: Not reported  
 Spiller City,St,Zip: ZZ  
 Spiller County: 001  
 Spiller Contact: Not reported  
 Spiller Phone: Not reported  
 Spiller Extension: Not reported  
 DEC Region: 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

DER Facility ID: 195238  
DEC Memo: Not reported  
Remarks: LEAK RATE OF -0.07 GPH - REPORTED AS PASSED BY TESTER. See 9808458, 9812531, 9907036 and 9910794.

Material:

Site ID: 104073  
Operable Unit ID: 997515  
Operable Unit: 01  
Material ID: 387216  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 104073  
Spill Tank Test: 1542570  
Tank Number: 001  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

Site ID: 236985  
Spill Number/Closed Date: 9808458 / 3/29/1999  
Spill Date: 10/8/1998  
Spill Cause: Tank Test Failure  
Spill Source: Private Dwelling  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: SACCACIO  
Referred To: Not reported  
Reported to Dept: 10/8/1998  
CID: 366  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 10/8/1998  
Spill Record Last Update: 2/13/2004  
Spiller Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: NEW YORK, NY 10007-  
Spiller County: 001  
Spiller Contact: FRANK OCELLO  
Spiller Phone: (212) 306-3229  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 195238  
DEC Memo: Not reported  
Remarks: CALLER REPORTING TANK FAILURE.

Material:

Site ID: 236985  
Operable Unit ID: 1069649  
Operable Unit: 01  
Material ID: 315966  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 236985  
Spill Tank Test: 1546359  
Tank Number: 1  
Tank Size: 20000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

Site ID: 236986  
Spill Number/Closed Date: 9812531 / 5/20/1999  
Spill Date: 1/11/1999  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: SACCACIO  
Referred To: Not reported  
Reported to Dept: 1/11/1999  
CID: 371  
Water Affected: Not reported  
Spill Notifier: Responsible Party



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1/11/1999  
Spill Record Last Update: 2/13/2004  
Spiller Name: Not reported  
Spiller Company: NYS HOUSING AUTHORITY  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: MANHATTAN, NY  
Spiller County: 001  
Spiller Contact: FRANK OCELLO  
Spiller Phone: (212) 306-3229  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 195238  
DEC Memo: Not reported  
Remarks: WILL ISOLATE AND RETEST.

Material:

Site ID: 236986  
Operable Unit ID: 1073075  
Operable Unit: 01  
Material ID: 312812  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 236986  
Spill Tank Test: 1546736  
Tank Number: 1  
Tank Size: 20000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

UST:

Id/Status: 2-474959 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2014/03/28  
UTM X: 589696.07631999999  
UTM Y: 4517937.8661000002  
Site Type: Apartment Building/Office Building

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

Affiliation Records:

Site Id: 20958  
Affiliation Type: Facility Owner  
Company Name: NYC HOUSING AUTHORITY  
Contact Type: \\  
Contact Name: Not reported  
Address1: 23-02 49TH AVENUE  
Address2: Not reported  
City: LONG ISLAND CITY  
State: NY  
Zip Code: 11101  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 8/27/2013

Site Id: 20958  
Affiliation Type: Emergency Contact  
Company Name: NYC HOUSING AUTHORITY  
Contact Type: Not reported  
Contact Name: EMERGENCY SERVICES DEPT.  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 707-5900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 9/13/2012

Site Id: 20958  
Affiliation Type: Mail Contact  
Company Name: NYC HOUSING AUTHORITY  
Contact Type: Not reported  
Contact Name: FUEL OIL REMEDIATION COORDINATOR  
Address1: 23-02 49TH AVENUE  
Address2: TECH SERVS DEPT - 5TH FLOOR  
City: LONG ISLAND CITY  
State: NY  
Zip Code: 11101  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Y.TKACH@NYCHA.NYC.GOV  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 10/17/2013

Site Id: 20958  
Affiliation Type: On-Site Operator  
Company Name: ROBINSON HOUSES - JACKIE ROBINSON HOUSES  
Contact Type: Not reported  
Contact Name: FUEL OIL REMEDIATION UNIT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 11/12/2008

Tank Info:

Tank Number: 1  
Tank ID: 58497  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 10000  
Install Date: 06/01/2000  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: 0  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: E  
Modified By: NRLOMBAR  
Last Modified: 11/12/2008

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)  
K00 - Spill Prevention - None  
A00 - Tank Internal Protection - None  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
D11 - Pipe Type - Flexible Piping  
F05 - Pipe External Protection - Jacketed  
C02 - Pipe Location - Underground/On-ground  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
B09 - Tank External Protection - Urethane  
I03 - Overfill - Automatic Shut-Off  
E04 - Piping Secondary Containment - Double-Walled (Underground)  
L02 - Piping Leak Detection - Interstitial - Manual Monitoring  
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Number: OLD 1  
Tank ID: 37710  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 20000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

Install Date: 05/01/1973  
Date Tank Closed: 06/01/2000  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
C02 - Pipe Location - Underground/On-ground  
I00 - Overfill - None  
B00 - Tank External Protection - None

SPILLS:

Facility ID: 9907036  
Facility Type: ER  
DER Facility ID: 195238  
Site ID: 327483  
DEC Region: 2  
Spill Date: 9/13/1999  
Spill Number/Closed Date: 9907036 / 2/27/2004  
Spill Cause: Unknown  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: SACCACIO  
Referred To: Not reported  
Reported to Dept: 9/13/1999  
CID: 323  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Tank Tester  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 9/13/1999  
Spill Record Last Update: 11/28/2005  
Spiller Name: FRANK OCELLO  
Spiller Company: JACKIE ROBINSON  
Spiller Address: 110 E129TH ST  
Spiller City,St,Zip: MANHATTAN, ZZ

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

Spiller Company: 001  
Contact Name: FRANK OCELLO  
Contact Phone: (212) 306-3229  
DEC Memo: Not reported  
Remarks: TANK WILL BE REPLACED SOON. See 9315465 and 9910794. Closed based on tank replacement. George Breen.

Material:  
Site ID: 327483  
Operable Unit ID: 1085474  
Operable Unit: 01  
Material ID: 299744  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:  
Site ID: 327483  
Spill Tank Test: 1547614  
Tank Number: 1  
Tank Size: 20000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: F  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

Facility ID: 0001625  
Facility Type: ER  
DER Facility ID: 195238  
Site ID: 269192  
DEC Region: 2  
Spill Date: 5/9/2000  
Spill Number/Closed Date: 0001625 / 12/30/2009  
Spill Cause: Unknown  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: jkkann  
Referred To: CONSOLIDATED WITH 9910794  
Reported to Dept: 5/9/2000  
CID: 198  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBINSON HOUSES - JACKIE ROBINSON HOUSES (Continued)**

**U001840718**

UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/9/2000  
Spill Record Last Update: 12/30/2009  
Spiller Name: FRANK INOA  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: 123 WILLIAM ST  
Spiller City,St,Zip: MANHATTAN, NY  
Spiller Company: 001  
Contact Name: FRANK INOA  
Contact Phone: (212) 306-3142  
DEC Memo: 11/22/05: This spill transferred from J.Kolleeny to S.Kraszewski.01/03/06: One 20K tank replaced with one 10K tank. Maximum mechanical stated they would perform 4 borings, one for each side of the 20K tank as part of the site assessment. No record of a site assessment recieved by DEC. No mention of boring made near the fill port. Fascimile from Maxiumu Mechanical states that the soil around the fill port is to be drummed, but no mention of samples taken from this area. Letter from Maximum Mechanical states contaminated soil to be stockpiled on sheeting. No record of the amount of soil removed, tare weights or destination of the material. No mention of end-point sample taken from the excavation.Need the site assessment report mentioned in the correspondence and info about the excavation. - SK09/01/06: DEC Lead for this spill changed from "unassigned" to S. Kraszewski. - J. Kolleeny02/08/07 : DEC lead changed from S. Kraszewski to J. Kann. J.Kann12/30/09: J.Kann - spill consolidated with 9910794  
Remarks: SOIL CONTAMINATION FOUND DURING TANK REMOVAL OF 20,000 GALLON TANK.CLEAN UP TAKING PLACE NOW.  
Material:  
Site ID: 269192  
Operable Unit ID: 823479  
Operable Unit: 01  
Material ID: 289842  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AF197**  
**NNE**  
**1/4-1/2**  
**0.276 mi.**  
**1456 ft.**

**RIDER AVENUE GAS STATION**  
**250 EAST 138TH STREET**  
**BRONX, NY 10451**

**NY SHWS**    **S113916758**  
**N/A**

**Site 2 of 3 in cluster AF**

**Relative:**  
**Higher**

SHWS:

**Actual:**  
**20 ft.**

<p>Program:            HW          Site Code:        437424          Classification:    N          Region:            2          Acres:             .258          HW Code:          203051          Record Add:       07/14/2010          Record Upd:       04/16/2013          Updated By:       RJCZZY</p>	<p>Site Description:    Part of Port Morris Zone 1 BOA.DEC #BOA00032DOS #10BOA002Site          Investigation could not be funded under BOA since there is an ongoing          State enforcement action.</p>
<p>Env Problem:        Not reported          Health Problem:    Not reported          Dump:              Not reported          Structure:          Not reported          Lagoon:             Not reported          Landfill:           Not reported          Pond:                Not reported          Disp Start:         Not reported          Disp Term:          Not reported          Lat/Long:           Not reported          Dell:                Not reported          Record Add:        Not reported          Record Upd:        Not reported          Updated By:        Not reported          Own Op:             Applicant/Requestor          Sub Type:           C04          Owner Name:        Lourdes Zapata          Owner Company:    South Bronx Overall Economic Development Corporation (SoBRO)          Owner Address:     555 Bergen Avenue          Owner Addr2:       Not reported          Owner City,St,Zip: Bronx, NY 10455          Owner Country:    United States of America          Own Op:             Owner          Sub Type:           C04          Owner Name:        Lourdes Zapata          Owner Company:    South Bronx Overall Economic Development Corporation (SoBRO)          Owner Address:     555 Bergen Avenue          Owner Addr2:       Not reported          Owner City,St,Zip: Bronx, NY 10455          Owner Country:    United States of America          HW Code:           Not reported          Waste Type:         Not reported          Waste Quantity:    Not reported          Waste Code:         Not reported          Crossref ID:        Not reported          Cross Ref Type Code: Not reported          Cross Ref Type:    Not reported          Record Added Date: Not reported          Record Updated:    Not reported          Updated By:        Not reported</p>	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AF198** 242 EAST 138TH STREET, INC.  
**NNE** 242 EAST 138TH STREET  
**1/4-1/2** BRONX, NY 10451  
**0.282 mi.**  
**1490 ft.** Site 3 of 3 in cluster AF

**NY LTANKS** U003069066  
**NY UST** N/A

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**19 ft.**

Site ID: 297794  
Spill Number/Closed Date: 9101289 / 2/2/2007  
Spill Date: 4/29/1991  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: JBVOUGHT  
Referred To: NO FILE  
Reported to Dept: 5/1/1991  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 5/2/1991  
Spill Record Last Update: 2/2/2007  
Spiller Name: Not reported  
Spiller Company: citgo  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller County: 999  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 240932  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SUN"REFER TO SPILL # 9101008 ( PIN# 91214 )1/8/04 Reassigned from Sullivan to Sun.12/16/2005 - Feng - Reassigned from Sun to Feng as per Sun. (RJF)2/2/07-Vought-This spill reassigned from Feng to Vought due to existing PIN project on site. This spill closed and referred to open spill #9101008. Spill closed by Vought.  
Remarks: (1)4K TANK,SYSTEM TEST,FAILED PETRO TITE WITH A GROSS LEAK,DEC INSTRUCTED CITGO TO INSTALL MONITORING WELLS.

Material:

Site ID: 297794  
Operable Unit ID: 954876  
Operable Unit: 01  
Material ID: 427410  
Material Code: 0008  
Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Pounds



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**242 EAST 138TH STREET, INC. (Continued)**

**U003069066**

Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 297794  
Spill Tank Test: 1538517  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

UST:

Id/Status: 2-600201 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2001/07/08  
UTM X: 590447.4372699999  
UTM Y: 4518395.9868599996  
Site Type: Retail Gasoline Sales

Affiliation Records:

Site Id: 22184  
Affiliation Type: Facility Owner  
Company Name: LEAH MARKOWITZ  
Contact Type: Not reported  
Contact Name: Not reported  
Address1: 14 WEST 85TH STREET-APT #1  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10024  
Country Code: 001  
Phone: (718) 531-4305  
EMail: Not reported  
Fax Number: Not reported  
Modified By: EXROSSAN  
Date Last Modified: 7/5/2005

Site Id: 22184  
Affiliation Type: Mail Contact  
Company Name: 242 EAST 138TH STREET, INC.  
Contact Type: Not reported  
Contact Name: G. SINGH  
Address1: 276 NORTH HENRY STREET  
Address2: Not reported  
City: BROOKLYN  
State: NY  
Zip Code: 11222  
Country Code: 001  
Phone: (718) 349-0555

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**242 EAST 138TH STREET, INC. (Continued)**

**U003069066**

EMail: Not reported  
Fax Number: Not reported  
Modified By: TRANSLAT  
Date Last Modified: 3/4/2004

Site Id: 22184  
Affiliation Type: On-Site Operator  
Company Name: 242 EAST 138TH STREET, INC.  
Contact Type: Not reported  
Contact Name: 242 EAST 138TH ST., INC.  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NY  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 993-0169  
EMail: Not reported  
Fax Number: Not reported  
Modified By: EXROSSAN  
Date Last Modified: 7/5/2005

Site Id: 22184  
Affiliation Type: Emergency Contact  
Company Name: LEAH MARKOWITZ  
Contact Type: Not reported  
Contact Name: G. SINGH  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (718) 349-0555  
EMail: Not reported  
Fax Number: Not reported  
Modified By: EXROSSAN  
Date Last Modified: 7/5/2005

Tank Info:

Tank Number: 001  
Tank ID: 41526  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 12/01/1983  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: 03  
Date Test: 01/01/1997  
Next Test Date: 01/01/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**242 EAST 138TH STREET, INC. (Continued)**

**U003069066**

Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground  
B01 - Tank External Protection - Painted/Asphalt Coating  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
G00 - Tank Secondary Containment - None  
I00 - Overfill - None  
F01 - Pipe External Protection - Painted/Asphalt Coating  
H00 - Tank Leak Detection - None

Tank Number: 002  
Tank ID: 41527  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 12/01/1983  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: 03  
Date Test: 01/01/1997  
Next Test Date: 01/01/2002  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

I00 - Overfill - None  
G00 - Tank Secondary Containment - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
F01 - Pipe External Protection - Painted/Asphalt Coating  
H00 - Tank Leak Detection - None  
C02 - Pipe Location - Underground/On-ground

Tank Number: 003  
Tank ID: 41528  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 12/01/1983  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**242 EAST 138TH STREET, INC. (Continued)**

**U003069066**

Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: 03  
Date Test: 01/01/1997  
Next Test Date: 01/01/2002  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

I00 - Overfill - None  
G00 - Tank Secondary Containment - None  
C02 - Pipe Location - Underground/On-ground  
B01 - Tank External Protection - Painted/Asphalt Coating  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
F01 - Pipe External Protection - Painted/Asphalt Coating  
H00 - Tank Leak Detection - None

Tank Number: 004  
Tank ID: 41529  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 4000  
Install Date: 12/01/1983  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: 03  
Date Test: 01/01/1997  
Next Test Date: 01/01/2002  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating  
G00 - Tank Secondary Containment - None  
I00 - Overfill - None  
C02 - Pipe Location - Underground/On-ground  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J01 - Dispenser - Pressurized Dispenser  
F01 - Pipe External Protection - Painted/Asphalt Coating  
H00 - Tank Leak Detection - None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

Site

Database(s)

AG199  
West  
1/4-1/2  
0.283 mi.  
1496 ft.

**SPILL NUMBER 0403909**  
**1908-1914 PARK AVE**  
**NEW YORK CITY, NY**  
**Site 2 of 2 in cluster AG**

**NY LTANKS** **S106472069**  
**N/A**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**17 ft.**

Site ID: 141650  
Spill Number/Closed Date: 0403909 / 9/27/2004  
Spill Date: 7/12/2004  
Spill Cause: Tank Failure  
Spill Source: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: TJDMEEO  
Referred To: Not reported  
Reported to Dept: 7/12/2004  
CID: 403  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 7/12/2004  
Spill Record Last Update: 9/27/2004  
Spiller Name: MARK ROBINS  
Spiller Company: Not reported  
Spiller Address: 1908-1914 PARK AVE  
Spiller City,St,Zip: NEW YORK CITY, NY  
Spiller County: 001  
Spiller Contact: MARK ROBINS  
Spiller Phone: (631) 462-5866  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 120922  
DEC Memo:

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "DEMEO"7/13/2004 - Sangesland - Conversation with Mark Robins of Hydro Tech showed that he knew the DEC procedures and no "Contaminated Soil Letter" was required8/2/2004 Sangesland spoke again to Mark Robins. He said the site has been excavated. Soil is stockpiled waiting for lab results. End point samples have been taken. When all results are complete and all work is done, Hydro Tech will submit a closure report.9/27/04 TJDclosure report submitted by Hydro-Tech. Leaking 275 gallon waste oil UST excavated. Approximately 50 tons of contaminated soils excavated and disposed of under manifest. Endpoint samples taken from sides and bottom of excavation. No VOC exceedances were identified through laboratory analysis. No further action is required. Spill closed.

Remarks: tank had holes in it.contaminated soil encountered

Material:

Site ID: 141650  
Operable Unit ID: 886478  
Operable Unit: 01  
Material ID: 491458

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPILL NUMBER 0403909 (Continued)**

**S106472069**

Material Code: 0066A  
Material Name: UNKNOWN PETROLEUM  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

200  
NNE  
1/4-1/2  
0.289 mi.  
1527 ft.

**IESI NY CORP - CANAL PLACE RECYCLING FACILITY**  
**246 - 266 CANAL PLACE**  
**BRONX, NY 10451**

**NY SWRCY S109375830**  
**N/A**

**Relative:**  
**Higher**

SWRCY:  
Region: 2  
Facility Address 2: Not reported  
Phone Number: 2126650770  
Owner Type: Private  
Owner Name: IESI NY Corporation  
Owner Address: 1099 Wall Street West; Suite 250  
Owner Address 2: Not reported  
Owner City,St,Zip: Lyndhurst, NJ 07071  
Owner Email: Not reported  
Owner Phone: 2014433000  
Contact Name: Joseph LoVerde  
Contact Address: Not reported  
Contact Address 2: Not reported  
Contact City,St,Zip: Not reported  
Contact Email: jloverde@iesi.com  
Contact Phone: 2014333000  
Activity Desc: RHRF - registration  
Activity Number: [03M28]  
Active: Yes  
East Coordinate: 594251  
North Coordinate: 4519615  
Accuracy Code: 4.3 - Utilization of Digital Orthophoto Quads  
Regulatory Status: Not reported  
Permit #: 2-6004-00035  
Auth. Date: Not reported  
Expiration Date: Not reported  
Waste Types: Not reported

**Actual:**  
**17 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AE201  
ESE  
1/4-1/2  
0.299 mi.  
1580 ft.

FIEDLER COMPANY INC.  
91 BRUCHNER BLVD  
BRONX, NY 10454

NY LTANKS S110611368  
N/A

Site 2 of 2 in cluster AE

Relative:  
Higher

LTANKS:

Actual:  
36 ft.

Site ID: 442210  
Spill Number/Closed Date: 1008706 / Not Reported  
Spill Date: 11/18/2010  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: VXBREVDO  
Referred To: Not reported  
Reported to Dept: 11/18/2010  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 1  
Date Entered In Computer: 11/18/2010  
Spill Record Last Update: 7/16/2013  
Spiller Name: Not reported  
Spiller Company: TANK TEST FAILURE  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller County: 999  
Spiller Contact: JEFFEREY FIEDLER  
Spiller Phone: (718) 993-4100  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 397247  
DEC Memo: TTF Letter sent to PBS Address - See eDocs07/16/13 - Spill Case is transferred from Brian Falvey (PBS Unit) to V. Brevdo (Section B) as per DER Region 2 decision - Tank Test Failure Spill Case. VB

Remarks: retest pending repair

Material:

Site ID: 442210  
Operable Unit ID: 1192735  
Operable Unit: 01  
Material ID: 2188070  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIEDLER COMPANY INC. (Continued)**

**S110611368**

Tank Test:

**AH202**  
**ENE**  
**1/4-1/2**  
**0.306 mi.**  
**1618 ft.**

**3 BROTHERS CLEANERS**  
**347 E 138TH ST**  
**BRONX, NY 10454**

**RCRA NonGen / NLR**  
**NY LTANKS**  
**NY MANIFEST**

**1000368098**  
**NYD083997718**

**Site 1 of 2 in cluster AH**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**33 ft.**

Date form received by agency: 01/01/2007  
Facility name: 3 BROTHERS CLEANERS  
Facility address: 347 E 138TH ST  
BRONX, NY 10454  
EPA ID: NYD083997718  
Mailing address: E 138TH ST  
BRONX, NY 10454  
Contact: NOEMI SURITA  
Contact address: E 138TH ST  
BRONX, NY 10454  
Contact country: US  
Contact telephone: (718) 292-2728  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: SUTRE CORP  
Owner/operator address: 321 CONCORD AVE  
BRONX, NY 10454  
Owner/operator country: US  
Owner/operator telephone: (718) 742-1802  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/2001  
Owner/Op end date: Not reported

Owner/operator name: SUTRE CORP  
Owner/operator address: 321 CONCORD AVE  
BRONX, NY 10454  
Owner/operator country: US  
Owner/operator telephone: (718) 742-1802  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2001  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: 3 BROTHERS CLEANERS  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/13/2001  
Facility name: 3 BROTHERS CLEANERS  
Classification: Small Quantity Generator

Date form received by agency: 04/05/1995  
Facility name: 3 BROTHERS CLEANERS  
Classification: Not a generator, verified

Date form received by agency: 08/15/1985  
Facility name: 3 BROTHERS CLEANERS  
Classification: Large Quantity Generator

Violation Status: No violations found

LTANKS:

Site ID: 241799  
Spill Number/Closed Date: 9605052 / 6/15/2004  
Spill Date: 7/17/1996  
Spill Cause: Tank Failure  
Spill Source: Private Dwelling  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: True  
SWIS: 5200  
Investigator: RDDECAND  
Referred To: Not reported  
Reported to Dept: 7/18/1996  
CID: 351  
Water Affected: Not reported  
Spill Notifier: Affected Persons  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 7/18/1996  
Spill Record Last Update: 6/21/2004  
Spiller Name: Not reported  
Spiller Company: UNKNOWN  
Spiller Address: Not reported  
Spiller City, St, Zip: NY  
Spiller County: 999  
Spiller Contact: THOMAS LAPOINTE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Spiller Phone: (516) 433-9719  
Spiller Extension: Not reported  
DEC Region: 1  
DER Facility ID: 198758  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was

Remarks: "DECANDIA" TANK IS A/G & USUALLY LEAKING, ADVISED HIM TO CONTACT FUEL OIL CO TO REMOVE OIL AND SET UP TEMP SYSTEM & MAKE ARRANGEMENTS FOR NEW TANK TO BE INSTALLED CLEANUP BY TRADEWINDS  
caller just bought residence and was told when he bought it that the tank was not leaking - he now finds that it is leaking - caller would like a call back

Material:  
Site ID: 241799  
Operable Unit ID: 1032587  
Operable Unit: 01  
Material ID: 347802  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

NY MANIFEST:  
EPA ID: NYD083997718  
Country: USA  
Mailing Name: THREE BROTHERS CLEANERS  
Mailing Contact: THREE BROTHERS CLEANERS  
Mailing Address: 347 EAST 138 STREET  
Mailing Address 2: Not reported  
Mailing City: BRONX  
Mailing State: NY  
Mailing Zip: 10454  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-292-2728

Document ID: NYA9422335  
Manifest Status: Completed copy  
Trans1 State ID: NYLP3931  
Trans2 State ID: Not reported  
Generator Ship Date: 890425  
Trans1 Recv Date: 890425  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890425  
Part A Recv Date: 890511  
Part B Recv Date: 890503  
Generator EPA ID: NYD083997718

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00080  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NYA9759609  
Manifest Status: Completed copy  
Trans1 State ID: 000000000  
Trans2 State ID: 000000000  
Generator Ship Date: 890809  
Trans1 Recv Date: 890809  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890809  
Part A Recv Date: 890817  
Part B Recv Date: 890822  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00080  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NYA9512651  
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC  
Trans1 State ID: NYPP4503  
Trans2 State ID: Not reported  
Generator Ship Date: 890616  
Trans1 Recv Date: 890616  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890616  
Part A Recv Date: 890712  
Part B Recv Date: 890623  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00080  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Specific Gravity: 100  
Year: 89

Document ID: NYC1735391  
Manifest Status: Completed copy  
Trans1 State ID: HW8207NY  
Trans2 State ID: Not reported  
Generator Ship Date: 920709  
Trans1 Recv Date: 920709  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 920709  
Part A Recv Date: 920722  
Part B Recv Date: 920717  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

Document ID: NYC2196922  
Manifest Status: Completed copy  
Trans1 State ID: AY9381NY  
Trans2 State ID: Not reported  
Generator Ship Date: 930311  
Trans1 Recv Date: 930311  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 930311  
Part A Recv Date: 930323  
Part B Recv Date: 930322  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 93

Document ID: NYC3981137  
Manifest Status: Completed copy  
Trans1 State ID: LP3931NY  
Trans2 State ID: Not reported  
Generator Ship Date: 960117

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Trans1 Recv Date: 960117  
Trans2 Recv Date: 960124  
TSD Site Recv Date: 960125  
Part A Recv Date: 960130  
Part B Recv Date: 960208  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD984908202  
Trans2 EPA ID: ARD981908551  
TSD ID: OHD980587364  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 96

Document ID: NYC3763372  
Manifest Status: Completed copy  
Trans1 State ID: LP3931NY  
Trans2 State ID: Not reported  
Generator Ship Date: 951122  
Trans1 Recv Date: 951122  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 951122  
Part A Recv Date: 951211  
Part B Recv Date: 951211  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD984908202  
Trans2 EPA ID: Not reported  
TSD ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 95

Document ID: NYC4160621  
Manifest Status: Completed after the designated time period for a TSD ID to get a copy to the DEC  
Trans1 State ID: NYLP3931  
Trans2 State ID: Not reported  
Generator Ship Date: 960628  
Trans1 Recv Date: 960628  
Trans2 Recv Date: 960703  
TSD Site Recv Date: 960705  
Part A Recv Date: 960716  
Part B Recv Date: 960723  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD984908202  
Trans2 EPA ID: ARD981908551  
TSD ID: OHD980587364

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 96

Document ID: NYC3930175  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: LP3931NY  
Trans2 State ID: AR004  
Generator Ship Date: 960312  
Trans1 Recv Date: 960312  
Trans2 Recv Date: 960319  
TSD Site Recv Date: 960320  
Part A Recv Date: 960325  
Part B Recv Date: 960410  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD984908202  
Trans2 EPA ID: ARD981908551  
TSDf ID: OHD980587364  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 96

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD000564906  
Trans2 State ID: MIK814262374  
Generator Ship Date: 2009-05-12  
Trans1 Recv Date: 2009-05-12  
Trans2 Recv Date: 2009-05-20  
TSD Site Recv Date: 2009-05-20  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDf ID: CDX107000000  
Waste Code: Not reported  
Quantity: 130.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 004980772JJK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Import Ind: N  
Export Ind: Y  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H020

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD000564906  
Trans2 State ID: MIK814262374  
Generator Ship Date: 2009-05-12  
Trans1 Recv Date: 2009-05-12  
Trans2 Recv Date: 2009-05-20  
TSD Site Recv Date: 2009-05-20  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: CDX107000000  
Waste Code: Not reported  
Quantity: 80.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 004980772JJK  
Import Ind: N  
Export Ind: Y  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H020

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD000564906  
Trans2 State ID: MIK814262374  
Generator Ship Date: 2009-07-22  
Trans1 Recv Date: 2009-07-22  
Trans2 Recv Date: 2009-07-23  
TSD Site Recv Date: 2009-07-24

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: CDX107000000  
Waste Code: Not reported  
Quantity: 80.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 004981195JJK  
Import Ind: N  
Export Ind: Y  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H020

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD000564906  
Trans2 State ID: MIK814262374  
Generator Ship Date: 2009-03-06  
Trans1 Recv Date: 2009-03-06  
Trans2 Recv Date: 2009-03-13  
TSD Site Recv Date: 2009-03-14  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: CDX107000000  
Waste Code: Not reported  
Quantity: 80.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 004980657JJK  
Import Ind: N  
Export Ind: Y  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H020

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD000564906  
Trans2 State ID: MIK814262374  
Generator Ship Date: 2009-05-12  
Trans1 Recv Date: 2009-05-12  
Trans2 Recv Date: 2009-05-20  
TSD Site Recv Date: 2009-05-20  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: CDX107000000  
Waste Code: Not reported  
Quantity: 80.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 004980772JJK  
Import Ind: N  
Export Ind: Y  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H020

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NJD000564906  
Trans2 State ID: CDX761010010  
Generator Ship Date: 2009-01-07  
Trans1 Recv Date: 2009-01-07  
Trans2 Recv Date: 2009-01-09  
TSD Site Recv Date: 2009-01-10  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: CDX107000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Waste Code: Not reported  
Quantity: 130.0  
Units: P - Pounds  
Number of Containers: 1.0  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 1.0  
Year: 2009  
Manifest Tracking Num: 004562278JJK  
Import Ind: N  
Export Ind: Y  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H020

Document ID: NJA0222733  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: NJSWAS581  
Trans2 State ID: Not reported  
Generator Ship Date: 860822  
Trans1 Recv Date: 860822  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 860822  
Part A Recv Date: 860919  
Part B Recv Date: 860829  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: NJD085634335  
Trans2 EPA ID: Not reported  
TSDf ID: NJD002200046  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00380  
Units: P - Pounds  
Number of Containers: 005  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00055  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 86

Document ID: NYA9829539  
Manifest Status: Completed copy  
Trans1 State ID: NYLP3931  
Trans2 State ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

Generator Ship Date: 890907  
Trans1 Recv Date: 890907  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890907  
Part A Recv Date: 890915  
Part B Recv Date: 890913  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00080  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NYC0148465  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: 000000000  
Trans2 State ID: 000000000  
Generator Ship Date: 900621  
Trans1 Recv Date: 900621  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 900621  
Part A Recv Date: 900823  
Part B Recv Date: 900628  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00180  
Units: P - Pounds  
Number of Containers: 003  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 90

Document ID: NYC1852626  
Manifest Status: Completed copy  
Trans1 State ID: AY9381NY  
Trans2 State ID: Not reported  
Generator Ship Date: 921001  
Trans1 Recv Date: 921001  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 921001  
Part A Recv Date: 921104  
Part B Recv Date: 921020  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3 BROTHERS CLEANERS (Continued)**

**1000368098**

TSDF ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

Document ID: NYC1949297  
Manifest Status: Completed copy  
Trans1 State ID: AY9381NY  
Trans2 State ID: Not reported  
Generator Ship Date: 921117  
Trans1 Recv Date: 921117  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 921117  
Part A Recv Date: 921201  
Part B Recv Date: 921201  
Generator EPA ID: NYD083997718  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NYD980785760  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00060  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

[Click this hyperlink](#) while viewing on your computer to access  
136 additional NY\_MANIFEST: record(s) in the EDR Site Report.

203  
NE  
1/4-1/2  
0.315 mi.  
1661 ft.

**P & R FIXTURES CORP**  
**271 E 139TH ST**  
**BRONX, NY**

**NY LTANKS S104516899**  
**N/A**

**Relative:**  
**Higher**

LTANKS:  
Site ID: 102522  
Spill Number/Closed Date: 9914720 / 1/23/2004  
Spill Date: 3/29/2000  
Spill Cause: Tank Overfill  
Spill Source: Tank Truck  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: JMROMMEL  
Referred To: Not reported  
Reported to Dept: 3/29/2000  
CID: 312

**Actual:**  
**25 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**P & R FIXTURES CORP (Continued)**

**S104516899**

Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 3/29/2000  
Spill Record Last Update: 1/23/2004  
Spiller Name: Not reported  
Spiller Company: ATLAS FUEL OIL  
Spiller Address: 1110 BRONX RIVER AVE  
Spiller City,St,Zip: BRONX, NY 10472-  
Spiller County: 001  
Spiller Contact: PAUL REISMAN  
Spiller Phone: (718) 293-0263  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 90787  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ROMMEL" CLOSED AND REFERENCED TO 0010599  
Remarks: DRIVER OVERFILLED THE TANK - ABOUT 5 OR 6 GAL OUTSIDE AND ABOUT 1 GAL IN THE BASEMENT - BEING CLEANED UP NOW

Material:  
Site ID: 102522  
Operable Unit ID: 1092661  
Operable Unit: 01  
Material ID: 293011  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 7  
Units: Gallons  
Recovered: 7  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

AH204  
ENE  
1/4-1/2  
0.317 mi.  
1673 ft.

**HOUSING - THE COMMUNITY PRESERVATION CORP.  
262 ALEXANDER AVENUE  
BRONX, NY**

**NY LTANKS S105998994  
NY Spills N/A**

**Site 2 of 2 in cluster AH**

**Relative:  
Higher**

LTANKS:  
Site ID: 295220  
Spill Number/Closed Date: 0200169 / 7/16/2003  
Spill Date: 4/5/2002  
Spill Cause: Tank Failure  
Spill Source: Private Dwelling  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False

**Actual:  
31 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)**

**S105998994**

SWIS: 0301  
Investigator: MXTIPPLE  
Referred To: Not reported  
Reported to Dept: 4/5/2002  
CID: 405  
Water Affected: Not reported  
Spill Notifier: Local Agency  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 4/5/2002  
Spill Record Last Update: 7/16/2003  
Spiller Name: JOHN GEUIBES  
Spiller Company: JOHN GEUIBES  
Spiller Address: 262 ALEXANDER AVENUE  
Spiller City,St,Zip: BRONX, NY 10463-  
Spiller County: 001  
Spiller Contact: PAUL WIATER  
Spiller Phone: (718) 763-6100  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 238892  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIPPLE"04/11/2002Eastman did the cleanup of the #2fo in the basement, manifests and report to follow. The contact at the building is Christine in apt. 4 phone:718-401-4926.7/16/2003 Tipple updating//see spill # 03-01707 for active spill#also closed spill #03-03928 at this location  
Remarks: caller states that the customer just called him and stated his tank just ruptered - it is unknown how much spilled - crew enroute to investigate and clean up

Material:  
Site ID: 295220  
Operable Unit ID: 851168  
Operable Unit: 01  
Material ID: 525165  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

SPILLS:  
Facility ID: 0303928  
Facility Type: ER  
DER Facility ID: 238892  
Site ID: 295221

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)**

**S105998994**

DEC Region: 2  
Spill Date: 7/11/2003  
Spill Number/Closed Date: 0303928 / 7/16/2003  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: CESAWYER  
Referred To: Not reported  
Reported to Dept: 7/14/2003  
CID: 418  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 7/14/2003  
Spill Record Last Update: 7/16/2003  
Spiller Name: Not reported  
Spiller Company: ABC TANK  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: RODNEY GONZALES  
Contact Phone: (347) 232-2206  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SAWYER/TIPPLE"7/15/03 1545 HRS - SAWYER/TIPPLE - VISITED THE ABOVE PROPERTY TO CHECK CURRENT STATUS AND TO FOLLOWUP. REFER TO SPILL #030107 FOR MORE INFORMATION.7/16/2003 Tipple updating// referred to spill # 03-30107 closing this spill #

Remarks: caller states that he was contacted by the homeowner regarding oil that had been dumped out of the temporary tank into a pit on the ground. They had initially indicated that it was inside the premises. When they had pumped out the tank on the 11th they had placed 20 gallons from the temporary tanks into the main tank. caller states that on July 9th abc tank had installed 2 new 275gallon tanks into the oil room and had done all new piping as well and they disconnected and drained oil from temp tank into a pit located at the base of the alley way drain

Material:  
Site ID: 295221  
Operable Unit ID: 872183  
Operable Unit: 01  
Material ID: 504791  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)

S105998994

Tank Test:

Facility ID: 0301707  
Facility Type: ER  
DER Facility ID: 238892  
Site ID: 66777  
DEC Region: 2  
Spill Date: 5/16/2003  
Spill Number/Closed Date: 0301707 / 11/4/2011  
Spill Cause: Equipment Failure  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: AXDORONO  
Referred To: Not reported  
Reported to Dept: 5/16/2003  
CID: 418  
Water Affected: Not reported  
Spill Source: Tank Truck  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 5/16/2003  
Spill Record Last Update: 12/11/2012  
Spiller Name: Not reported  
Spiller Company: EMBASSADOR FUEL  
Spiller Address: 131 EAST 138TH STREET  
Spiller City,St,Zip: OTHER ADDRESS OF SAME BLD, ZZ  
Spiller Company: 001  
Contact Name: KEITH BARTLEY  
Contact Phone: (917) 669-1093  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIPPLE"5/19/03 - ROSSAN, DDO - Called Mr. Kieth Bartley, who confirmed that contaminated soil letter should be sent to: ATT: Mr. Kieth Bartley c/o USA Tanks Plant Maintenance 206 Grandview Avenue Staten Island, NY 103035/22/03 TIPPLE UPDATING/ SITE VISIT ON THE 16TH REVEALED OIL FROM RUPTURED TANK ON TANK ROOM FLOOR, SEAPING THROUGH THE SUBSURFACE INTO THE BOILER ROOM, SUMP IN BOILER ROOM FLOOR, DRAIN IN WALKWAY OUTSIDE BASEMENT DOOR, BELOW VENT/FILL LINE SATURATING BRICK STEPS AND WALKWAY DOWN TO BASEMENT DOOR, AND HAD BEEN TRACKED THROUGHOUT THE AREA. A SUBSEQUENT VISIT 5/19 REVEALS THAT OIL WAS STILL DRAINING OUT OF THE SATURATED SOILS INTO THE BOILER ROOM, AND ONLY THE BEGINNINGS OF A SURFACE CLEANUP HAD OCCURED TO DATE.7/16/2003Tipple updating// spills # 02-00169 and 03-03928 at this address closed and referred to this spill #contaminated soil letter sent to both property owner: Estate of Michael McSherry3616 Route 94Chester, NY 10918-1149 and Management CompanyClassic Realty-John Gubias3600 Feildston RdBronx, NY 10463----718-601-58587/15 site visit revealed oil still seeping into sump and along the wall in the boiler room. The walkway sump with soil walls was full of fresh oil, stairs in the walkway and laid up stone foundation wall between the tank room and the walkway were still contaminated with a coating of



Map ID  
Direction  
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**HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)**

**S105998994**

oil. The new surface spill appeared to be impacting the walkway outside the basement door and the soil walled sump in the walkway. 5/5/04: Tipple sent a letter requesting cleanup details and documentation. certified mail # 7001 0360 0000 8150 427211/30/04: Sent letter requesting documentation of work05/19/06: This spill is transferred from Mr.Koon to Q.Abidi.Called Keith Bartley at (917)669-1093. Left message to call me back.06/23/06: Contacted to Kristen at (718)981-5710 she told temporary tank set there. Mr.Keith Bartley didn't do the complete job for this spill. She will find out the information about the spill and she will call me back. -QA08/30/06: Called Keith Bartley and left message to call me back. -QA09/11/06: Contacted Mr. Keith Bartley(917)669-1093 he said that he will send closing confirmation letter very soon. -QA10/10/06: Mr. John Herbig (Intech Environmental)called me and said he is going to take soil samples from the basement after chemical analysis he will send me the report for closing the spill. -QA10/19/06: Talked to John Herbig he said he has collected soil samples from the basement and sent to chemical lab for analysis as soon as he will get the report he will send it to me. -QA10/26/06: Contacted Mr. John Herbig he said that he received lab results of soil samples he will fax it to me. -QA11/13/06: Mr. John Herbig (Impact Environmental) called me and said soil sample report has come from the lab. He will mail me the report in a week. -QA11/16/06: Mr. John Herbig called me and said that he has mailed me the soil sample report in couple of days I will receive that. The soil sample data which he faxed me is not readable. i am waiting to receive his mail. -QA11/27/06: Reviewed the Investigation Summary Report dated November 16, 2006 [in eDocs]. The report presents soil sample results which indicate that a release of petroleum has occurred and soil contamination present at the site. The Department requires additional investigation to determine if there has been an impact to groundwater and to fully delineate soil and groundwater contamination. Sent a letter to Mr. Morris Arlos (owner) to prepare a Work Plan for additional investigation and submit it to Department within 30 days. -QA12/14/06: Received letter from Mr. Kevin Kleaka, Project Manager (Impact Environmental) that additional investigation activities are not possible in the basement of the building due to limited place. He is going to break the concrete of the basement to excavate the contaminated soil. Additional soil samples will be taken at the site after excavation and removal of the contaminated soil to demonstrate the effectiveness of the remedial activities. -QA12/20/06: Called Mr. Kevin Kleaka (Consultant and Project Manager) at (631)269-8800 and said to make two temporary well at the side walk of 262 Alexander Avenue to check the potential impact of groundwater. Before that we will not review any remedial plan. -QA 01/08/077: Received phone call from John Herbig of Impact Emt'l, regarding DEC's request for two groundwater samples in sidewalk outside site building; he noted there is already a well in sidewalk related to investigations at 40th Police Precinct, across Alexander Ave. from site. He asked if it would be acceptable to just sample that well, rather than installing two new wells in sidewalk. After reviewing location of existing well (MW-5 from 40th Precinct investigations) which is west-northwest of ASTs in basement of site bldg, and location of soil sample with TAGM exceedance for VOCs, SP-2, and considering that URS has established local groundwater flow direction at 40th Pct. is to west-northwest, J. Kolleeny told Mr. Herbig that sampling of well MW-5 would be acceptable to evaluate impacts to groundwater from this spill. After

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Direction  
Distance  
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**HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)**

**S105998994**

sampling well, Impact Env'tl can prepare a remedial action plan. - J. Kolleeny01/11/07: Talked to Mr. John Herbig at (631)774-5597, received his fax regarding groundwater sample results. MTBE is high. [Only compound greatly exceeding its GW std. was MTBE, suggesting main impact to GW is from 40th Police Precinct across street to west.] Now Impact environmental can submit remedial action plan to DEC regarding this spill. -QA02/05/07: Called Mr. John Herbig (631)774-5597 and reminded him to send electronic version single Pdf file for both the reports, Investigation Summary report and Corrected Action Plan. After receiving that we will approve your plan. -QA02/07/07: Reviewed the corrective Action Plan dated January 29, 2007 for this site, submitted by impact environmental. The report proposes excavation of an area of residual soil contamination beneath the basement floor at the site, followed by collection of end-point soil samples. The corrective Action plan is approved. Letter mailed out to responsible party. -QA05/09/07: Called Mr. John Herbig (631)774-5597 and discussed regarding spill. He said that at this site owner is waiting when all tenants will be relocated then work will be started at this site. -QA12/04/2007: This spill case was transferred to A. Doronova. AD12/06/2007: Called and spoke to Mr. John Herbig of Impact Env. regarding remedial action plan implementation. He told me that First Alexander LLC was potential buyer and that this company is no longer involved with this property, and due that RAP was not implemented at the site. Called to Building Management (718) 601-5858 of this property. Spoke with a manager. He told that First Alexander LLC is the current owner of this site. This company bought the property approximately one year ago. Now this property under new contract for sale. Received a call from Mr. Morris Arlos - the owner of First Alexander LLC. He confirmed that this property is now under contract. The closing is scheduled on the beginning of January 2008. The new owner - "Galaxy" was informed about the spill case and agreed to do site remediation, according to Mr. Morris Arlos. Contact person for the "Galaxy" - Richard Sica, phone: (718) 601-7000. Will contact "Galaxy" after January 10, 2008. AD12/07/2007: Spoke to Mr. Sica. His company is aware of the spill and remedial action plan. He will contact us after site purchase to discuss further actions. AD02/14/2008: Spoke with Mr. Sica regarding the site. He told me that the closing was moved on early March. AD04/21/2008: Called and left a message to Building Management. AD08/07/2008: Called and left a message to R. Sica of Galaxy. AD11/04/2008: Called and left a message to R. Sica. and to Building Management. AD12/08/2008: Looked in the ACRIS database, the property now belongs to The Community Preservation Corp. (CPC). Called and spoke with Kristy Seyfert of CPC, phone: 212-869-5300, fax: (212)659-0102. She confirmed that CPC owns the property. She asked me to sent them an official letter and NYSDEC Spill report. AD12/18/2008: Sent a letter to CPC with a request to prepare and submit a RAP to DEC till January 29, 2009. Faxed a copies of the letter and NYSDEC Spill report to Ms. Seyfert. DL PDF copy to eDocs. AD02/19/2009: Called and left a message to Ms. Seyfert of CPC regarding past due of RAP submission. Later received a phone call from K. Seyfert. She said that she did not received the letters. Sent these letters again via fax and e-mail: "From: Ainura Doronova [mailto:axdorono@gw.dec.state.ny.us] Sent: Thursday, February 19, 2009 3:26 PM To: Kristy Seyfert <kseyfert@communitycp.com Subject: 2515 Seventh Ave., New York NYSDEC Spill No. 0401623 and 262 Alexander Ave., Bronx NYSDEC Spill No. 0301707 Dear Ms. Seyfert: Attached please find

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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EPA ID Number

**HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)**

**S105998994**

copies of the letters, regarding above-referenced sites, which were sent to you previously, but were not received by your company according to your statement. Please be advised that response is time sensitive. To receive a deadline postponement you should submit an official request. Sincerely, Ainura Doronova Environmental Engineer" later received an e-mail from her saying: "Thank you I am in receipt of the attachment and will address the situation ASAP. Kristy Seyfert Loan Analyst The Community Preservation Corporation 28 E. 28th Street, 9th Fl. New York, NY 10016 T: (212) 869-5300 x560 F: (212) 659-0102 kseyfert@communitypc.com" 05/18/2009: Did not receive any response yet. Called and left a message to Ms. Seyfert. AD07/27/2009: Called and spoke with Ms. Seyfert - (212)869-5300, ext 560. She said that this case was referred to someone else. This person is on vacation till July 30, 2009. Left my contact info for her. AD10/02/2009: Called and spoke with K. Seyfert of CPC regarding the submission of the report. She referred me to Ms. Jill Belli - contact person for this case (ext. 626). Called her and left a message. AD12/08/2009: Did not receive any response from Ms. Belli of CPC. Called and left a message to Ms. Belli again. AD12/09/2009: Called and again could not reach Ms. Belli or Ms. Seyfert. Will send Remediation Needed Letter to Mr. John McCarthy - vice president of CPC. AD12/14/2009: Issued and sent Remediation needed Letter to Mr. McCarthy of CPC. Response is due January 25, 2010. DL pdf copy to eDocs. AD02/2010: Did not receive any response. AD09/12/2011: Was forwarded an e-mail from Nick Recchia regarding implementation of the 2007 RAP.: "Dear Mr. Paul John. Our client is ready to implement the approved corrective action plan which was approved in 2007 and is attached. The contractor will have the area of excavation open for DEC inspection this Wed. 9/14/2011. We would like to move forward in closing this spill case file upon your inspection and reviews ASAP. If you could have someone available to inspect the excavation this Wednesday it would be appreciated I will be on site to collect endpoint soil samples. If you can give me a specific time to meet and co-ordinate for the inspection that would be great. My contact information is below. My cell phone # is 516-395-8763. Sincerely Yours, Nicholas J. Recchia, C.P.G. Vice President, Senior Hydrogeologist EEA Inc. 55 Hilton Avenue, Garden City, NY 11530 Phone: (516) 746-4400 Y Fax (516) 746-4432 nrecchia@eeaconsultants.com" Called and spoke with Mr. Recchia of EEA. EEA will overlook the remedial excavation in the basement of the building and will collect a post-excavation endpoint soil samples. Discussed this site with J. Kolleen of DEC. It was decided that EEA can proceed with RAP implementation. Decision on a closure of the spill will be made based on the results of end-point soil samples. AD09/13/2011: Received an e-mail from Mr. Recchia saying: "Ainura. The client contact is Telly Zervoudis. Please advise us ASAP we would like to move forward with closing out this spill. Thanks. Galaxy General Contracting 3152 Albany Crescent Bronx, NY 10463 Tzervoudis@galaxygc.com Nicholas J. Recchia, C.P.G. Vice President, Senior Hydrogeologist" Called and left a message to Mr. Recchia of EEA. Later spoke with him regarding RAP implementation. He said that removal of contaminated soil will start tomorrow, and he expects that collection of endpoint samples will be in a few days. Requested him to notify DEC about date of sampling. AD09/14/2011: Received an e-mail from Mr. Recchia saying: "Ainura, EEA is performing the remedial action to excavate and remove soils as per the approved RAP. We anticipate collecting endpoint soil samples tomorrow. EEA will prepare a full report of remedial action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

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**HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)**

**S105998994**

activities, endpoint sample data, site photos, etc. signed and sealed by our engineer. Sincerely Yours, Nicholas J. Recchia, C.P.G. Vice President, Senior Hydrogeologist

Called and informed Mr. Recchia that I cannot visit the site on Thursday, September 15, 2011, due to the previously scheduled meeting. Requested to take a pictures of the excavation, document all activities and to take PID readings.

AD09/27/2011: Received an e-mail from N. Recchia saying: "Ainura, Hope all is well. I was hoping you could help us out here by taking a quick look at the endpoint results from the excavation. Our client wants to backfill ASAP because it is in the building and they had to shore up the walls. All endpoint samples were collected from the sidewalls of the excavation. The bottom of the excavation was bedrock at a depth of 2 to 2 feet below floor grade. I reviewed the results and it appears that all samples are below the new CP-51 Soil Cleanup Policy which replaces TAGM. I included a photo of the excavation. I apologize for not having a table or drawing ready for you at this time but we want to backfill this ASAP. I will prepare a full report and send it to you next week. Thanks for your help. Nicholas J. Recchia, C.P.G. Vice President, Senior Hydrogeologist"

Looked at the submitted data. No exceedances of VOCs or SVOCs levels were detected in all six endpoint soil samples. Asked Mr. Recchia to submit a sketch of the excavation with locations of the soil samples. Later received the requested sketch. Approved the backfill of the excavation.

AD10/17/2011: received an e-mail from Mr. Recchia saying: "Ainura, Attached please find our final remedial action report for this property. Please review and let me know the spill status. Thanks you. Nicholas J. Recchia, C.P.G. Vice President, Senior Hydrogeologist EEA Inc." DL the report to eDocs. Will review.

AD10/26/2011: Reviewed the report. It states that EEA performed remedial excavation of contaminated soils in the vicinity of the former AST's area. A total of 14.4 tons of contaminates soil was removed off-site. Post-excavation end-point soil samples were collected on September 15, 2011 from 6 sidewalls locations. No bottom soil samples were collected due to presence of a shallow bedrock, which was found at a depth of 1.5' to 2.8' below the basement floor level. According to the analytical data, no VOCs or SVOCs were detected above NYSDEC standards. Based on the result, EEA concludes that contamination was removed and recommends spill case closure. The submitted site map is different from site maps presented by previous consultant. To clarify this difference with Mr. Recchia. Will discuss spill closure request with J. Kolleeny of DEC.

AD10/27/2011: Discussed the site with J. Kolleeny. To ask MR. Recchia if there are any sumps in the basement to be checked for presence of LNAPL or product sheen.

AD10/28/2011: Called and spoke with Mr. Recchia. Requested to clarify excavation location on the site map, and info on sumps. Sent him an e-mail with an attached site plan saying: "Mr. Recchia: Could you please verify location of the excavation completed by EEA on this site plan? Also, if there are any sumps in the basement they should be checked for presence of LNAPL or product sheen."

AD01/03/2011: Received an e-mail from Mr. Recchia saying: "Ainura, Sorry for the confusion. Our drawing is somewhat misleading I can see your concern and confusion. I have revised our drawing and it is in the area of the former AST's and SP-2 area. We didn't focus on the whole basement location in our drawing only the former tank area and area around SP-2. Sorry for the confusion. I have revised the drawing. I hope this helps. EEA did not observe any basement sumps in the building. Sincerely, Nicholas J. Recchia,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOUSING - THE COMMUNITY PRESERVATION CORP. (Continued)**

**S105998994**

Remarks: C.P.G.Vice President, Senior Hydrogeologist"Reviewed the submitted site map. Soil was excavated in the area of the former AST's and soil boring SP-2 area. DL the revised site map to eDocs. Will issue a closure approval letter. AD11/04/2011: Sent a Spill Closure approval letter to Telly Zervoudis of Galaxy General Contracting Corp. at 3152 Albany Crescent, Bronx, NY 10463 via e-mail: Tzervoudis@galaxygc.com. DL pdf copy of the letter to eDocs. Case closed. AD clean up is underway

Material:  
Site ID: 66777  
Operable Unit ID: 868255  
Operable Unit: 01  
Material ID: 506195  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 500  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

205  
SSW  
1/4-1/2  
0.326 mi.  
1722 ft.

**AMOCO**  
**255 EAST 125TH STREET**  
**NEW YORK CITY, NY**

**NY LTANKS S104275536**  
**N/A**

**Relative:**  
**Higher**

LTANKS:  
Site ID: 245905  
Spill Number/Closed Date: 8809618 / 3/25/2004  
Spill Date: 3/14/1989  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: KMFOLEY  
Referred To: Not reported  
Reported to Dept: 3/14/1989  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 3/15/1989  
Spill Record Last Update: 3/25/2004  
Spiller Name: Not reported  
Spiller Company: AMOCO GAS STATION

**Actual:**  
**14 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S104275536**

Spiller Address: 255 EAST 125TH STREET  
Spiller City,St,Zip: NEW YORK, NY  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 201930  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "K FOLEY"3/14/03 REASSIGNED FROM SULLIVAN TO VOUGHT.1/8/04 Reassigned from Vought to K Foley. To be investigated and remediated under spill #9711337.  
Remarks: (2) 4K TANKS SIPHONED TOGETHER FAILED PETRO TITE WITH A LEAK RATE OF -.358GPH, WILL EXCAVATE, ISOLATE & RETEST.

Material:  
Site ID: 245905  
Operable Unit ID: 925675  
Operable Unit: 01  
Material ID: 450800  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:  
Site ID: 245905  
Spill Tank Test: 1535248  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

AI206  
WNW  
1/4-1/2  
0.333 mi.  
1760 ft.

**SPILL NUMBER 0209093**  
**60 E 130TH ST**  
**MANHATTAN, NY**  
**Site 1 of 2 in cluster AI**

**NY LTANKS S105997483**  
**N/A**

**Relative:**  
**Higher**

LTANKS:  
Site ID: 252661  
Spill Number/Closed Date: 0209093 / 12/4/2002  
Spill Date: 12/3/2002  
Spill Cause: Tank Overfill  
Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**18 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPILL NUMBER 0209093 (Continued)**

**S105997483**

Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: JBVOUGHT  
Referred To: Not reported  
Reported to Dept: 12/4/2002  
CID: 257  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 12/4/2002  
Spill Record Last Update: 11/6/2003  
Spiller Name: Not reported  
Spiller Company: UNKNOWN  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller County: 999  
Spiller Contact: DAVID LIGAMMARI  
Spiller Phone: (716) 848-3772  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 206972  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "VOUGHT"12/4/2002-Vought-See spill #0209020 at same location. This spill closed by Vought.  
Remarks: caller is hired to clean up - delivery was made without the building knowing it

Material:  
Site ID: 252661  
Operable Unit ID: 862274  
Operable Unit: 01  
Material ID: 516076  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 60  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AI207**  
**WNW**  
**1/4-1/2**  
**0.333 mi.**  
**1760 ft.**

**PRIVATE RESIDENCE**  
**60 EAST 130TH ST**  
**MANHATTAN, NY**  
  
**Site 2 of 2 in cluster AI**

**NY LTANKS** **S105997459**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**18 ft.**

Site ID: 84487  
 Spill Number/Closed Date: 0209020 / 9/22/2005  
 Spill Date: 12/2/2002  
 Spill Cause: Tank Overfill  
 Spill Source: Private Dwelling  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 3101  
 Investigator: JMPELTON  
 Referred To: Not reported  
 Reported to Dept: 12/2/2002  
 CID: 405  
 Water Affected: Not reported  
 Spill Notifier: Fire Department  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: False  
 Remediation Phase: 0  
 Date Entered In Computer: 12/2/2002  
 Spill Record Last Update: 9/22/2005  
 Spiller Name: Not reported  
 Spiller Company: UNKNOWN  
 Spiller Address: Not reported  
 Spiller City,St,Zip: NY  
 Spiller County: 999  
 Spiller Contact: FF FELRICE  
 Spiller Phone: (917) 769-0483  
 Spiller Extention: Not reported  
 DEC Region: 2  
 DER Facility ID: 77699  
 DEC Memo: 7/22/05 - As part of the Spills Reduction Initiative, spill was transferred to Jason Pelton. Jason contacted David Ligammari at M&T Mortgage Corp. to discuss the history of the spill and subsequent cleanup activities. David reported that an oil company overfilled the tank and approximately 50 gallons of fuel oil was spilled in the basement. Petroleum Tank Cleaners was hired and the fuel oil spill was cleaned up on December 6, 2002. The cleanup involved the use of a sorbent material to contain the fuel oil. Two drums of the sorbent material and one drum of petroleum contaminated soil was subsequently removed from the basement by Petroleum Tank Cleaners. David indicated that the basement tank is an above ground storage tank and not an underground storage tank. David also indicated that the tank did not fail, but the spill resulted from an overfill. 9/20/2005 - Jason Pelton contacted Petroleum Tank Cleaners and spoke with Helen Parker about spill cleanup documentation. Helen reviewed the project files and faxed Jason a Non-Hazardous Waste Manifest documenting the removal and disposal of 2 drums of Oil Soaked Debris and 1 drum of Petroleum Contaminated Soil. The waste was transported to General Environmental Management in Cleveland, Ohio for disposal. The disposal date on the manifest is: 1/3/03. 9/22/05 - Based on



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIVATE RESIDENCE (Continued)**

**S105997459**

communication with M&T Mortgage and the remediation contractor and documentation that the fuel oil spill was cleaned up, Spill Number 0209020 was Closed on September 22, 2005 by Jason Pelton. Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SAWYER" 12/02/2002 Rommel - Duty officer See also spill # 0209046 reported by 1st floor tenant. Overfill into basement. Unclear who ordered oil or what oil company made the delivery. Vought spoke to Mulqueen (FDNY) who responded to the scene. FDNY collected speedy dry and oil into 55 gallon drums which were left on site outside. Spoke to Tommie Collins and Tina Spenson - tenants in building. They indicated that there has not been heat for three weeks. They provided Spoke to Hector at J&N Managing Company 212-721-0424 21 West 86th Street, NY, NY 10024 He provided Mark Landis' phone number 212-724-8300 and cell 917-334-9321. Mr. Landis is the court appointed receiver for this property during the pendency of foreclosure. He is responsible for any necessary cleanup. Mark indicated that he will have to obtain funds from M&T Bank - who foreclosed on building, who will then have to go through HUD - who insured the mortgage. HUD Contact - Cardell Johnson - Housing Specialist - 8004408647 ext. 3467. Spill responder Vought on site 3:00pm. 12/3/2002-Vought-Site visit by vought. According to resident delivery made on 12/2/2002 at approximately 8pm by a green and white truck (previous trucks were green and red). No delivery receipt was left and driver who caused spill put down speedy dry at vent and fill. This was first delivery of oil season. Site inspection revealed FDNY 55 gallon drum, a boiler room covered with impacted adsorbent and impacts to an adjacent kitchen. J&M Realty (Victor Berrios and Mark Landis 212-721-0424) agreed to hire contractor and fix heat (heat had not worked all season). 12/4/2002-Spoke with Isaac Mungra (PTC 718-624-4842) who called in spill #0209093 at same location (spill closed by Vought). PTC arrived on-site and cleaned speedy dry. Cracked concrete by vent needs to be excavated and removed. Tank needs to be tightness test and vault inspected. Boiler room concrete is intact according to PTC. 12/11/2002-Vought-Spoke with Isaac. Speedy dry has been swept and disposed of. Three drums were also removed and impacted concrete and soil by vent has been excavated and sampled. Lab analysis not received yet. Tank still needs tightness testing and/or vault inspected. Called David Legamari (M&T Mortgage Co. 716-848-3772) for vault inspection/tightness testing and left message to call NYSDEC. 1/7/04-Vought-Spill transferred from Vought to Austin. 01/27/04 - Sawyer - Spill transferred from Austin to Sawyer. 7/22/05 - As part of the Spills Reduction Initiative, spill was transferred to Jason Pelton. Jason contacted David Legamari at M&T Mortgage Corp. to discuss the history of the spill and subsequent cleanup activities. David reported that an oil company overfilled the tank and approximately 50 gallons of fuel oil was spilled in the basement. Petroleum Tank Cleaners was hired and the fuel oil spill was cleaned up on December 6, 2005. The cleanup involved the use of a sorbent material to contain the fuel oil. Two drums of the sorbent material and one drum of petroleum contaminated soil was subsequently removed from the basement by Petroleum Tank Cleaners. David indicated that the basement tank is an above ground storage tank and not an underground storage tank. David also indicated that the tank did not fail, but the spill resulted from an overfill. 9/20/2005 - Jason Pelton contacted Petroleum Tank Cleaners and spoke with Helen Parker about spill cleanup documentation. Helen reviewed the project files and faxed Jason a Non-Hazardous Waste Manifest documenting the removal and disposal of

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIVATE RESIDENCE (Continued)**

**S105997459**

2 drums of Oil Soaked Debris and 1 drum of Petroleum Contaminated Soil. The waste was transported to General Environmental Management in Cleveland, Ohio for disposal. The disposal date on the manifest is: 1/3/03.9/22/05 - Based on communication with M&T Mortgage and the remediation contractor and documentation that the fuel oil spill was cleaned up, Spill Number 0209020 was Closed on September 22, 2005 by Jason Pelton.

Remarks: caller states that approx 70 gallons spilled out of tank onto basement floor due to the tank being overfilled - caller states they are going to put it all into a drum and leave it there - all is being cleaned up at this time

Material:

Site ID: 84487  
Operable Unit ID: 860445  
Operable Unit: 01  
Material ID: 516006  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 70  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

SPILLS:

Facility ID: 0209046  
Facility Type: ER  
DER Facility ID: 77699  
Site ID: 84488  
DEC Region: 2  
Spill Date: 12/2/2002  
Spill Number/Closed Date: 0209046 / 12/2/2002  
Spill Cause: Missing Code in Old Data - Must be fixed  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)  
  
SWIS: 3101  
Investigator: JMROMMEL  
Referred To: Not reported  
Reported to Dept: 12/3/2002  
CID: 281  
Water Affected: Not reported  
Spill Source: Missing Code in Old Data - Must be fixed  
Spill Notifier: Missing Code in Old Data - Must be fixed  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 12/3/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIVATE RESIDENCE (Continued)**

**S105997459**

Spill Record Last Update: 12/3/2002  
Spiller Name: Not reported  
Spiller Company: Not reported  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*Update\*\*\*, ZZ  
Spiller Company: 001  
Contact Name: FF FELRICE  
Contact Phone: (917) 769-0483  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ROMMEL"12/02/2002 Rommel - office duty Closed and cross referenced to Spill 0209020.  
Remarks: Not reported

Material:  
Site ID: 84488  
Operable Unit ID: 860473  
Operable Unit: 01  
Material ID: 516031  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 30  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**AJ208  
NW  
1/4-1/2  
0.353 mi.  
1862 ft.**

**LINCOLN HOUSES -NYCHA  
2130 MADISON AVE  
NEW YORK CITY, NY  
Site 1 of 2 in cluster AJ**

**NY LTANKS S100167943  
NY Spills N/A**

**Relative:  
Higher**

LTANKS:  
Site ID: 63205  
Spill Number/Closed Date: 9004249 / 10/26/2005  
Spill Date: 7/17/1990  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: SWKRASZE  
Referred To: Not reported  
Reported to Dept: 7/17/1990  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0

**Actual:  
11 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LINCOLN HOUSES -NYCHA (Continued)**

**S100167943**

Date Entered In Computer: 7/19/1990  
Spill Record Last Update: 10/26/2005  
Spiller Name: Not reported  
Spiller Company: NYCHA  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: NEW YORK, NY  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 61116  
DEC Memo: 10/26/05: This spill closed to consolidate with open spill #9607561.  
S.Kraszewski  
Remarks: (2) 25K TANKS MANIFOLDED FAILED A HORNER EZY CHECK WITH A GROSS LEAK,  
WILL EXCAVATE,ISOLATE & RETEST.

Material:  
Site ID: 63205  
Operable Unit ID: 942070  
Operable Unit: 01  
Material ID: 435353  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Not reported  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:  
Site ID: 63205  
Spill Tank Test: 1537310  
Tank Number: 001  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown  
Site ID: 63205  
Spill Tank Test: 1537311  
Tank Number: 002  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

Site ID: 91028

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LINCOLN HOUSES -NYCHA (Continued)**

**S100167943**

Spill Number/Closed Date: 9315464 / 10/26/2005  
Spill Date: 3/6/1991  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: SWKRASZE  
Referred To: Not reported  
Reported to Dept: 3/30/1994  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: DEC  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 4/5/1994  
Spill Record Last Update: 10/26/2005  
Spiller Name: Not reported  
Spiller Company: NYCHA - JOE MONTELLA  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 61116  
DEC Memo: 10/26/05: This spill closed to consolidate with open spill #9607561.  
S.Kraszewski  
Remarks: LEAK RATE OF -0.06 GPH - REPORTED AS PASSED BY TESTER.

**Material:**

Site ID: 91028  
Operable Unit ID: 997513  
Operable Unit: 01  
Material ID: 554003  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Not reported  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

**Tank Test:**

Site ID: 91028  
Spill Tank Test: 1542569  
Tank Number: 001  
Tank Size: 0  
Test Method: 00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LINCOLN HOUSES -NYCHA (Continued)

S100167943

Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

SPILLS:

Facility ID: 9607561  
Facility Type: ER  
DER Facility ID: 61116  
Site ID: 318928  
DEC Region: 2  
Spill Date: 9/16/1996  
Spill Number/Closed Date: 9607561 / Not Reported  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: jkkann  
Referred To: SIR DUE 3/4/14, VISITED SITE 2/6/14  
Reported to Dept: 9/16/1996  
CID: 349  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 1  
Date Entered In Computer: 9/16/1996  
Spill Record Last Update: 2/6/2014  
Spiller Name: MARIO MANDALONE  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*Update\*\*\*, ZZ  
Spiller Company: 001  
Contact Name: MARIO MANDALONE  
Contact Phone: (718) 649-7017  
DEC Memo: 12/12/05: This spill transferred from J.Kolleeny to S.Kraszewski.07/28/06: Two 25K USTs installed in 1948 that stored #4/#6 oil were closed-removed in 1996. One 30K UST that stores #2 oil was installed in 1997 and is currently in service. Soil contamination was encountered during tank replacement. 4 MWs were installed in 1996 and is currently bailing oil/water. NYCHA recommends that a site assessment be performed. - SK9/26/06: This spill was transferred from S.Kraszewski to J. Kann. -JK12/12/12: J.Kann - the IWP was received in May 2009. The plan and historic files were reviewed. Based on the review, comments were sent to NYCHA on 12/12/12 (edoced).3/5/13: J.Kann - revised IWP (Addendum letter and Figure 3) recvd on 2/11/13. Information reviewed and found acceptable. Pointed out in an email to NYCHA that the locations identified in the Addendum letter and revised Figure 3 are correct (however, the text of Section 3.2 of the IWP was not revised to reflect the change). SIR due 9/5/13.12/2/13: J.Kann - stip sent to nycha on 10/30. Signed stip rcvd 12/2 and

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LINCOLN HOUSES -NYCHA (Continued)

S100167943

forwarded to legal.1/28/14: J.kann - approved modifications to IWP after discussion/email with/from consultant (edoced)2/06/14: J.Kann-visited site today. Borings were advanced in the sidewalk. Stained soils noted at the groundwater interface and collected for analysis. Historical data shows not product or contamination downgradient of the site (across Madison Avenue). Additional drilling will be performed on Monday 2/10/14.

Remarks: TANKS BEING REMOVED - CONTAMINATED SOIL FOUND

Material:

Site ID: 318928  
Operable Unit ID: 1038730  
Operable Unit: 01  
Material ID: 346815  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9609643  
Facility Type: ER  
DER Facility ID: 61116  
Site ID: 154573  
DEC Region: 2  
Spill Date: 11/1/1996  
Spill Number/Closed Date: 9609643 / 12/13/1996  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: HEALY  
Referred To: Not reported  
Reported to Dept: 11/1/1996  
CID: 257  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 11/1/1996  
Spill Record Last Update: 12/12/2005  
Spiller Name: TODD MC INDOO  
Spiller Company: YELLOWSTONE CONTRACTING  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LINCOLN HOUSES -NYCHA (Continued)**

**S100167943**

Spiller Company: 001  
Contact Name: ED MALONE  
Contact Phone: (212) 306-8480  
DEC Memo: Not reported  
Remarks: seperator was not working correctly and cause oil to go throughseperator into the drain

Material:  
Site ID: 154573  
Operable Unit ID: 1037610  
Operable Unit: 01  
Material ID: 345371  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9609040  
Facility Type: ER  
DER Facility ID: 61116  
Site ID: 317275  
DEC Region: 2  
Spill Date: 10/20/1996  
Spill Number/Closed Date: 9609040 / 10/28/1996  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: HEALY  
Referred To: Not reported  
Reported to Dept: 10/20/1996  
CID: 323  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 10/20/1996  
Spill Record Last Update: 12/12/2005  
Spiller Name: EDWARD MALONE  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: 250 BROADWAY 16TH FLOOR  
Spiller City,St,Zip: MANHATTAN, NY 001  
Spiller Company: 001  
Contact Name: EDWARD MALONE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LINCOLN HOUSES -NYCHA (Continued)**

**S100167943**

Contact Phone: (212) 306-8480  
DEC Memo: Not reported  
Remarks: DURING FLOODING OF THE BOILER ROOM LAST NIGHT OIL WAS SPILLED.BEING CLEANED UP AT THIS TIME.

Material:  
Site ID: 317275  
Operable Unit ID: 1037138  
Operable Unit: 01  
Material ID: 344770  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

209  
NNE  
1/4-1/2  
0.357 mi.  
1885 ft.

**2568 PARK  
2568 PARK AVENUE  
BRONX, NY 10451**

**NY SHWS S113916757  
N/A**

**Relative:  
Higher**

SHWS:

Program: HW  
Site Code: 437190  
Classification: N  
Region: 2  
Acres: .255  
HW Code: 203050  
Record Add: 07/08/2010  
Record Upd: 04/16/2013  
Updated By: RJCOZZY

Site Description: Part of Port Morris Zone 1 BOA.DEC #BOA00032DOS #10BOA002Site Investigation could not be funded under BOA since property owner would not allow access. No environmental data available for this site.

Not reported

Env Problem: Not reported

Health Problem: Not reported

Dump: Not reported

Structure: Not reported

Lagoon: Not reported

Landfill: Not reported

Pond: Not reported

Disp Start: Not reported

Disp Term: Not reported

Lat/Long: Not reported

Dell: Not reported

Record Add: Not reported

Record Upd: Not reported

Updated By: Not reported

Own Op: Applicant/Requestor

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2568 PARK (Continued)**

**S113916757**

Sub Type: C04  
Owner Name: Lourdes Zapata  
Owner Company: South Bronx Overall Economic Development Corporation (SoBRO)  
Owner Address: 555 Bergen Avenue  
Owner Addr2: Not reported  
Owner City,St,Zip: Bronx, NY 10455  
Owner Country: United States of America  
Own Op: Owner  
Sub Type: C04  
Owner Name: Lourdes Zapata  
Owner Company: South Bronx Overall Economic Development Corporation (SoBRO)  
Owner Address: 555 Bergen Avenue  
Owner Addr2: Not reported  
Owner City,St,Zip: Bronx, NY 10455  
Owner Country: United States of America  
HW Code: Not reported  
Waste Type: Not reported  
Waste Quantity: Not reported  
Waste Code: Not reported  
Crossref ID: Not reported  
Cross Ref Type Code: Not reported  
Cross Ref Type: Not reported  
Record Added Date: Not reported  
Record Updated: Not reported  
Updated By: Not reported

**AJ210  
NW  
1/4-1/2  
0.360 mi.  
1899 ft.**

**LINCOLN  
2142 MADISON AVENUE  
NEW YORK CITY, NY  
Site 2 of 2 in cluster AJ**

**NY LTANKS 1001754757  
N/A**

**Relative:  
Higher**

LTANKS:  
Site ID: 214153  
Spill Number/Closed Date: 9104756 / 8/2/1991  
Spill Date: 8/1/1991  
Spill Cause: Tank Overfill  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Not reported  
Cleanup Ceased: 8/2/1991  
Cleanup Meets Standard: True  
SWIS: 3101  
Investigator: HEALY  
Referred To: Not reported  
Reported to Dept: 8/1/1991  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Affected Persons  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 8/7/1991  
Spill Record Last Update: 12/27/1993  
Spiller Name: Not reported  
Spiller Company: COASTAL OIL  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ

**Actual:  
10 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LINCOLN (Continued)**

**1001754757**

Spiller County: 001  
 Spiller Contact: Not reported  
 Spiller Phone: Not reported  
 Spiller Extension: Not reported  
 DEC Region: 2  
 DER Facility ID: 177424  
 DEC Memo: Not reported  
 Remarks: CONTRACTOR ON SCENE WITH VAC TRUCK TO CLEAN UP, SPILL CONTAINED IN  
 SUMP PIT, SUMP TURNED OFF, WINSTON CONTRACTORS DID CLEAN UP, NO PRODUCT  
 IN SEWERS.

Material:  
 Site ID: 214153  
 Operable Unit ID: 955528  
 Operable Unit: 01  
 Material ID: 423815  
 Material Code: 0002A  
 Material Name: #4 Fuel Oil  
 Case No.: Not reported  
 Material FA: Petroleum  
 Quantity: 50  
 Units: Gallons  
 Recovered: No  
 Resource Affected: Not reported  
 Oxygenate: False

Tank Test:

211  
 East  
 1/4-1/2  
 0.361 mi.  
 1906 ft.

**MITCHELL**  
**416 EAST 137TH STREET**  
**NEW YORK CITY, NY**

**NY LTANKS** **S100146249**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

LTANKS:  
 Site ID: 152130  
 Spill Number/Closed Date: 9005760 / Not Reported  
 Spill Date: 8/24/1990  
 Spill Cause: Tank Test Failure  
 Spill Source: Commercial/Industrial  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
 Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 0301  
 Investigator: jkkann  
 Referred To: IWP RCVD 3/3/11  
 Reported to Dept: 8/24/1990  
 CID: Not reported  
 Water Affected: Not reported  
 Spill Notifier: Tank Tester  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: False  
 Remediation Phase: 1  
 Date Entered In Computer: 8/28/1990

**Actual:**  
**45 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL (Continued)**

**S100146249**

Spill Record Last Update: 10/23/2013  
Spiller Name: Not reported  
Spiller Company: NYCHA  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: NEW YORK, NY  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 129134  
DEC Memo: 01/26/06: This spill transferred from J.Kolleeny to S.Kraszewski. One 10K tank installed in 1973 was closed in place in 2000. TTF in 1990 and 1992, then passed later in 1992. Tank was not replaced. No other storage tanks on the property. No site investigation or site assessment on file. Needs subsurface investigation. - SK03/14/06: This spill reassigned to K.Tang. - SK09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 3/10/11: J.Kann - Investigative work plan submitted on 3/3/11.5/29/12: J.Kann - priority P0 assigned to the site10/23/13: J.Kann - the work plan submitted on 3/3/11 is for spill number 9801188. No work plan has been submitted to date for this site. An email will be sent to NYCHA indicating that a WP needs to be submitted for this spill.

Remarks: 10K TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK, WILL ISOLATE & RETEST. UPDATE 2/28/92 - TANK RETETSTED, FAILED

Material:

Site ID: 152130  
Operable Unit ID: 943298  
Operable Unit: 01  
Material ID: 433245  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Not reported  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 152130  
Spill Tank Test: 1537472  
Tank Number: 001  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

Site ID: 113135  
Spill Number/Closed Date: 9513596 / 3/13/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL (Continued)**

**S100146249**

Spill Date: 1/12/1996  
Spill Cause: Tank Overfill  
Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: HEALY  
Referred To: Not reported  
Reported to Dept: 1/26/1996  
CID: 196  
Water Affected: Not reported  
Spill Notifier: Local Agency  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1/26/1996  
Spill Record Last Update: 1/26/2006  
Spiller Name: FRANK OCELLO  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: MR HINES  
Spiller Phone: (212) 799-0630  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 129134  
DEC Memo: Not reported  
Remarks: OVERFILL BY NYC HOUSING - PRODUCT WAS ON GROUND - CLEANED UP BYNYC HOUSING STAFF. USING SPEEDY DRY.

**Material:**

Site ID: 113135  
Operable Unit ID: 1028080  
Operable Unit: 01  
Material ID: 357312  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10  
Units: Gallons  
Recovered: 10  
Resource Affected: Not reported  
Oxygenate: False

**Tank Test:**

**SPILLS:**

Facility ID: 9009514  
Facility Type: ER  
DER Facility ID: 129134

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MITCHELL (Continued)**

**S100146249**

Site ID: 152131  
DEC Region: 2  
Spill Date: 12/1/1990  
Spill Number/Closed Date: 9009514 / 12/1/1990  
Spill Cause: Equipment Failure  
Spill Class: Not reported  
SWIS: 0301  
Investigator: HEALY  
Referred To: Not reported  
Reported to Dept: 12/1/1990  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Local Agency  
Cleanup Ceased: 12/1/1990  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1/28/1991  
Spill Record Last Update: 12/28/1993  
Spiller Name: Not reported  
Spiller Company: NYCHA  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: NEW YORK, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Not reported  
Remarks: FAULTY GAUGE, SPILL CONTAINED IN BASEMENT, OIL WENT INTO SUMP PUMP,NOT TO NYC SEWERS,NYCDEP NOTIFIED,ABC TANK TO DO WORK,CONTACTED NYCHA MIKE SIMONELLI,OIL DIDN'T ENTER GROUNDWATER,TO CLEAN UP.

**Material:**

Site ID: 152131  
Operable Unit ID: 946590  
Operable Unit: 01  
Material ID: 429726  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 45  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

**Tank Test:**

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

212  
 North  
 1/4-1/2  
 0.368 mi.  
 1942 ft.

**GRAND CONCOUR/CARROLL PL.  
 118 GRAND CONCOURSE  
 BRONX, NY**

**NY LTANKS S100494202  
 N/A**

**Relative:  
 Higher**

**LTANKS:**

**Actual:  
 19 ft.**

Site ID: 255100  
 Spill Number/Closed Date: 9208519 / 3/20/2003  
 Spill Date: 10/22/1992  
 Spill Cause: Tank Failure  
 Spill Source: Commercial/Industrial  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
 Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 0301  
 Investigator: MITCHELL  
 Referred To: Not reported  
 Reported to Dept: 10/23/1992  
 CID: Not reported  
 Water Affected: Not reported  
 Spill Notifier: Other  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: False  
 Remediation Phase: 0  
 Date Entered In Computer: 10/27/1992  
 Spill Record Last Update: 3/20/2003  
 Spiller Name: Not reported  
 Spiller Company: Not reported  
 Spiller Address: Not reported  
 Spiller City,St,Zip: \*\*\*Update\*\*\*, ZZ  
 Spiller County: 001  
 Spiller Contact: Not reported  
 Spiller Phone: Not reported  
 Spiller Extention: Not reported  
 DEC Region: 2  
 DER Facility ID: 208955  
 DEC Memo: Not reported  
 Remarks: DURING TANK PULL CONTAMINATED SOIL DISCOVERED-SPILL SETS ON CLAY &  
 ROCK-5K TANK MAY HAVE WEAK SEAM -TANK GONE-STOCKPILED, TESTED &  
 DISPOSE- NEW ADDRESS:118 GRAND CONCOURSE,BRONX,10456

**Material:**

Site ID: 255100  
 Operable Unit ID: 972057  
 Operable Unit: 01  
 Material ID: 405611  
 Material Code: 0001A  
 Material Name: #2 Fuel Oil  
 Case No.: Not reported  
 Material FA: Petroleum  
 Quantity: -1  
 Units: Pounds  
 Recovered: No  
 Resource Affected: Not reported  
 Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

GRAND CONCOUR/CARROLL PL. (Continued)

S100494202

Tank Test:

213  
North  
1/4-1/2  
0.376 mi.  
1984 ft.

**GASETERIA**  
**115 EAST 138TH STREET**  
**BRONX, NY**

**NY LTANKS** S105997104  
**NY Spills** N/A

Relative:  
Higher

LTANKS:

Actual:  
19 ft.

Site ID: 97236  
Spill Number/Closed Date: 0207682 / 8/6/2013  
Spill Date: 10/24/2002  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: aaobliga  
Referred To: Not reported  
Reported to Dept: 10/24/2002  
CID: 211  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 10/24/2002  
Spill Record Last Update: 8/6/2013  
Spiller Name: PAULA SKRYJA  
Spiller Company: GASETERIA  
Spiller Address: 1 WEST PENN AVENUE  
Spiller City,St,Zip: TOWSON, MD 21204-001  
Spiller County: 001  
Spiller Contact: JEFF BEAUDETTE  
Spiller Phone: (800) 666-2605  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 158352  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "VOUGHT"DEC Sigona sent a notice regarding the tank test failure on 10/24/2002.BP PRODUCTS NORTH AMERICA, INC.SUITE 410, 1 WEST PENNSYLVANIA AVENUE TOWSON, MD 21204ATTN: PAULA SKRYJAsee also spill 940810410/24/02 Tightness test on tanks/lines and leak detectors - Two regular USTs and two super USTs failed on ullage bubbles. Stage II was not tested because of ullage problems on the tanks. Dispenser #8 taken out of service because it pumps gas into vapor line when pump handle is off.Reviewed 11/20/02 tank re-test results (received 1/8/03). Retested two regular unleaded and two premium unleaded USTs. All passed. Stage II was not tested because piping system needs to be reconfigured.12/15/03 Left Paula Skryja voicemail message inquiring about status of site. PBS information shows five unleaded gas USTs were removed.12/15/03 Spoke with Paula Skryja. Site was taken over from Gaseteria in August 2002. Some repairs were made to risers, no



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GASETERIA (Continued)**

**S105997104**

tank problems. Station was temporarily shut down until raze and rebuild. Gaseteria removed tanks 1.5 weeks ago. BP was on-site to oversee tank removal. Station to be back in service March 2004. Paula to forward information regarding initial TTF. (KMF)12/26/03 Received information from Paula Skryja, BP regulatory assurance specialist. Tanks retested and passed on 11/20/02. Details of UST removal should be obtained from Gaseteria. (KMF)9/19/05 - Spill transferred from Vought to Obligado 12/5/05 - Obligado - File Review: Baseline Assessment Report, submitted by Delta, 12/2/05. At time of assessment, site was an active Gaseteria service station with 4 4000 gallon gasoline USTs and 1 4000 gallon diesel USTs, 3 pump islands. Surrounding land use is commercial. Sensitive receptor show Harlem River 500 ft southwest of site. Closest school is 1400 ft northeast of site. Bedrock located at 8 to 12 ft below ground surface. Water is located in bedrock fractures between 8 and 15 ft bgs. Gw flows to southwest. Five soil borings conducted on Dec. 20, 2001. Only soil exceedences in one soil boring SB-3 (9-10.2) with 5880 ppb xylenes and 16,100 ppb naphthalene. Total VOCs 81,402 ppb. Three temporary wells installed. Notable ground water results in ppb: (2/6 and 4/19/02) MW1 - benzene 233, ethylbenzene 539, MTBE 3070 MW2 - benzene 52.3, toluene 48, ethylbenzene 575, xylenes 1810, MTBE 122 MW3 - MTBE 50.2 (8/15/02) MW1 - benzene 205, ethylbenzene 435, MTBE 11000 MW2 - benzene 168, ethylbenzene 203, xylene 84.8 MW3 - MTBE 294 UST Closure Report, submitted by AGS, 12/03. On 11/20/03, 5 4000 gallon tanks excavated, Pump islands, piping, vent lines removed. 5 endpoint soil samples collected. Impacts in only one soil sample, UST - SW Bottom, showing 5200 ppb xylenes. SVOC exceedences as well. One gw sample collected from pit water, showing 6.8 ppb benzene, 27 ppb ethylbenzene, 181 ppb xylenes, 89 ppb toluene. Excavated soil was reused as backfill. Recommends preparation of a Subsurface Investigation Work Plan to investigate and delineate the detected contaminants. UST Closure Report Addendum, submitted by AGS, 12/03. Letter report documents collection of seven samples below former seven dispensers and collection of 5 samples at various piping locations. VOCs impacts were not detected. SVOCs were detected mostly PAHs. UST Closure Report Addendum No. 2, submitted by AGS, 9/04. Details discovery and abandonment of 3 unregistered and abandoned 550 gallon USTs. PBS registration number 2-191361 assigned on 9/3/04. 425 gallons of non DOT regulated waste liquid was removed from the two tanks. 3 soil samples were collected around the UST. USTs abandoned by filling with concrete slurry. No VOC exceedences detected from soil samples, minor PAH exceedences. "Upon completion of the rebuilding activities AGS will prepare a Subsurface Investigation Work Plan to investigate and delineate the detected contaminants." 12/7/05 - Meeting with ASR, Gaseteria, DEC. This site is scheduled for investigation in summer 2006. 9/12/06 - Obligado - Emailed multi-site stipulation agreement to Gaseteria on 9/8/06. Sent original on 9/12/06. Due date for workplan is 4/1/06. 6/1/07 - Obligado - Phone conversation with Steve Muller to discuss schedule. New due date for workplan is 8/1/07. 9/25/07 - Obligado - Spoke to Steve Muller about this site. He requested proposing a workplan to collect samples from tank mat wells to determine if there is ground water contamination. I told him I would not accept this work plan and he must submit a workplan for well installation. He said he would submit the workplan today. 9/26/07 - Obligado - Received the Investigation Work Plan. 10/26/07 - Obligado - Reviewed the Subsurface Investigation Workplan. It proposes installation of 4 monitoring

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GASETERIA (Continued)**

**S105997104**

wells, collection of soil and ground water samples for 8260/8270 , well survey, and submission of summary report within 60 days. Sent approval email to Steve Muller.1/30/08 - Obigado - Reviewed Subsurface Investigation Report. 3 monitoring wells were installed. Tank mat wells MWNW and MWSE were also sampled. Soil borings performed above bedrock and samples collected. MWs were installed into bedrock. No VOC impacts in soil above bedrock was above standards, minor SVOC impacts which may be attributable to fill. Ground water impacts in 2 of 5 wells. Tank mat wells MWNW and MWSE were also sampled. Max BTEX is 579 at MW3, 247 at MWSE. The report recomneds monitoring for 2 more quarters. I approved the report but required monitoring for 4 quarters at minimum. 5/20/08 - Obligado - Review 1Q08 monitoirng report. BTEX from ND to 272 ug/L. MTBE from ND to 9 ug/L. Will continue monitoring.12/15/08 - Obligado - Meeting with Gaseteria/ASR/DEC. Gaseteria will submit Closure Petition.2/2/09 - Obligado - Closure petition submitted.9/14/09 - Obligado - Sent letter rejecting closure petition. Required soil borings in the vicinity of the tanks to document complete removal of contaminated soil, continued sampling of ground water for at least 2 more quarters.3/12/10 - Obligado - JCB submitted a work plan to install 2 borings and collect soil and ground water samples in the vicinity of ht eUSTs to document contaminated soil removal. I sent an approval letter to JCB via email. I report will be submitted within 90 days.4/7/11 - Obligado - I reviewed the RIR report. Soil contamination found in soil boring SB4 adjacent to MWSE. GW samples were collected and BTEX in SB4 was 287 ug/l. During the most recent monitoring event, elevated ground water concentrations detected in MWSE. BTEX was detected at 1591 ug/L in MWSE, including 560 ug/L Benzene. Concentrations in this well have been steadily increasing throughout 2010. I emailed Steve Muller to request the most recent data.8/7/13 - Obligado - I reviewed the 1st Quarter 2013 report. Maximum BTEX concentrations are 51 ug/L. The report requests closures due to minimal exceeences. Concentrations have been consistently decreasing. This spill no longer appears to be a threat to human health and the environment. This spill is closed. Spill Closure Letter sent to Porcelli.

Remarks: PIPING PROBLEM - RECOMMEND UNCOVER ISOLATE AND RETEST

Material:

Site ID: 97236  
Operable Unit ID: 860553  
Operable Unit: 01  
Material ID: 514693  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 97236  
Spill Tank Test: 1527614

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GASETERIA (Continued)**

**S105997104**

Tank Number: 1-4  
Tank Size: 4000  
Test Method: 14  
Leak Rate: 0  
Gross Fail: F  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: VacuTest

**SPILLS:**

Facility ID: 9408104  
Facility Type: ER  
DER Facility ID: 158352  
Site ID: 189745  
DEC Region: 2  
Spill Date: 9/14/1994  
Spill Number/Closed Date: 9408104 / 10/28/2003  
Spill Cause: Other  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: JMROMMEL  
Referred To: Not reported  
Reported to Dept: 9/14/1994  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 10/28/1994  
Spill Record Last Update: 1/7/2004  
Spiller Name: Not reported  
Spiller Company: GASETERIA  
Spiller Address: 115 EAST 138TH STREET  
Spiller City,St,Zip: BRONX, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "ROMMEL" to be investigated and remediated under spill 0207682 rommel  
Remarks: TO TEST TANK (TOMASELLO)

**Material:**

Site ID: 189745  
Operable Unit ID: 1002238  
Operable Unit: 01  
Material ID: 377548  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GASETERIA (Continued)**

**S105997104**

Quantity: 52  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

214  
West  
1/4-1/2  
0.385 mi.  
2033 ft.

78-80 E 127TH ST/NYCHPD  
78-80 E 127TH ST  
NYC, NY

NY LTANKS S100153378  
N/A

Relative:  
Higher

LTANKS:

Actual:  
21 ft.

Site ID: 272201  
Spill Number/Closed Date: 9106395 / 9/13/1991  
Spill Date: 9/13/1991  
Spill Cause: Tank Failure  
Spill Source: Commercial/Industrial  
Spill Class: Not reported  
Cleanup Ceased: 9/13/1991  
Cleanup Meets Standard: True  
SWIS: 3101  
Investigator: KSTANG  
Referred To: Not reported  
Reported to Dept: 9/13/1991  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 9/25/1991  
Spill Record Last Update: 9/30/2004  
Spiller Name: Not reported  
Spiller Company: Not reported  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*Update\*\*\*, ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 221542  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TANG" // : WILL PICK UP & DISPOSE.  
Remarks: SPILL CONTAINED IN TANK ROOM. FLOOR & TANK VACCUUMED. DRIZ-ALL APPLIED.

Material:

Site ID: 272201  
Operable Unit ID: 960703  
Operable Unit: 01  
Material ID: 422103

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**78-80 E 127TH ST/NYCHPD (Continued)**

**S100153378**

Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 100  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**AK215  
SW  
1/4-1/2  
0.396 mi.  
2090 ft.**

**THE EAST DRIVE H.D.F.C.  
205 EAST 124TH STREET  
MANHATTAN, NY**

**NY LTANKS S104619531  
N/A**

**Site 1 of 2 in cluster AK**

**Relative:  
Higher**

LTANKS:

**Actual:  
16 ft.**

Site ID: 202489  
Spill Number/Closed Date: 9802381 / 11/26/2004  
Spill Date: 5/22/1998  
Spill Cause: Tank Test Failure  
Spill Source: Private Dwelling  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: True  
SWIS: 3101  
Investigator: SMSANGES  
Referred To: Not reported  
Reported to Dept: 5/23/1998  
CID: 266  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 5/23/1998  
Spill Record Last Update: 11/26/2004  
Spiller Name: Not reported  
Spiller Company: ROSE MURRAY  
Spiller Address: 205 EAST 124TH STREET  
Spiller City,St,Zip: NEW YORK, NY  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 168440  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SAWYER"5/18/04 - AUSTIN - TRANSFERRED FROM TOMASELLO FOR REASSIGNMENT - END9/10/04 - Sawyer - Talked to new manager for building. He will call back with as much information as he can find. The information should consist of the repair receipts and other

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**THE EAST DRIVE H.D.F.C. (Continued)**

**S104619531**

supporting documentation for the clean up, if needed.11/26/2004  
Sangesland reviewed a submittal from ProTest. On Sept 30, 2004  
ProTest isolated the tank and it passed. the problem was found to be  
a defective vent pipe. A partial replacement of this line was  
performed and the tank system then passed a tightness test. There were  
no visible signs of contamination.

Remarks: APARTMENT BUILDING. CUSTOMER NOTIFIED OF RESULTS.

Material:

Site ID: 202489  
Operable Unit ID: 1062919  
Operable Unit: 01  
Material ID: 320712  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 202489  
Spill Tank Test: 1545930  
Tank Number: 1  
Tank Size: 2000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: F  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

216  
South  
1/4-1/2  
0.397 mi.  
2097 ft.

**WAGNER HOUSES**  
**2360 FIRST AVENUE**  
**NEW YORK, NY 10035**

**NY LTANKS** **U000418237**  
**NY UST** **N/A**  
**NY Spills**

Relative:  
Higher

LTANKS:

Site ID: 137292  
Spill Number/Closed Date: 9003394 / 1/26/2006  
Spill Date: 6/25/1990  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: SWKRASZE  
Referred To: Not reported  
Reported to Dept: 6/25/1990  
CID: Not reported

Actual:  
11 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 6/27/1990  
Spill Record Last Update: 1/26/2006  
Spiller Name: Not reported  
Spiller Company: NYCHA  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 117462  
DEC Memo: 01/26/06: This spill transferred from J.Kolleeny to S.Kraszewski. A 35K tank suffered a gross leak in 1990 but was never repaired or taken out of service for repair. Six monitoring wells were already established; three around the tanks and three elsewhere on the site. These wells were installed as part of an investigation for spill #8907784, product seepage into the basement. Since a site investigation has placed MWs around the tanks and at least one follow-up investigation with soil borings has been performed at this site it follows that this spill can be closed to consolidate with open spill #8907784. - SK  
Remarks: 35K TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK, WILL PUMP & INTERNALLY INSPECT TANK THEN TEST LINES.

Material:

Site ID: 137292  
Operable Unit ID: 943527  
Operable Unit: 01  
Material ID: 438088  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Not reported  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 137292  
Spill Tank Test: 1537231  
Tank Number: 003  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Test Method: Unknown

UST:

Id/Status: 2-475084 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2014/03/28  
UTM X: 590005.34079000005  
UTM Y: 4516960.9579800004  
Site Type: Apartment Building/Office Building

Affiliation Records:

Site Id: 20970  
Affiliation Type: Mail Contact  
Company Name: NYC HOUSING AUTHORITY  
Contact Type: Not reported  
Contact Name: FUEL OIL REMEDIATION COORDINATOR  
Address1: 23-02 49TH AVENUE  
Address2: TECH SERVS DEPT - 5TH FLOOR  
City: LONG ISLAND CITY  
State: NY  
Zip Code: 11101  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Y.TKACH@NYCHA.NYC.GOV  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 10/17/2013

Site Id: 20970  
Affiliation Type: On-Site Operator  
Company Name: WAGNER HOUSES  
Contact Type: Not reported  
Contact Name: FUEL OIL REMEDIATION UNIT  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NY  
Zip Code: Not reported  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Not reported  
Fax Number: Not reported  
Modified By: bkfalvey  
Date Last Modified: 1/14/2009

Site Id: 20970  
Affiliation Type: Emergency Contact  
Company Name: NEW YORK CITY HOUSING AUTHORITY  
Contact Type: Not reported  
Contact Name: EMERGENCY SERVICES DEPARTMENT  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Zip Code: Not reported  
Country Code: 999  
Phone: (718) 707-5900  
EMail: Not reported  
Fax Number: Not reported  
Modified By: bkfalvey  
Date Last Modified: 1/14/2009

Site Id: 20970  
Affiliation Type: Facility Owner  
Company Name: NEW YORK CITY HOUSING AUTHORITY  
Contact Type: FUEL OIL REMEDIATION COORDINATOR  
Contact Name: Not reported  
Address1: 23-02 49TH AVENUE  
Address2: Not reported  
City: LONG ISLAND CITY  
State: NY  
Zip Code: 11101  
Country Code: 001  
Phone: (718) 707-5725  
EMail: Not reported  
Fax Number: Not reported  
Modified By: NRLOMBAR  
Date Last Modified: 8/27/2013

Tank Info:

Tank Number: 1  
Tank ID: 44036  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 29000  
Install Date: 10/01/1991  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 21  
Date Test: 05/29/2012  
Next Test Date: Not reported  
Pipe Model: A  
Modified By: BKFALVEY  
Last Modified: 12/05/2012

Equipment Records:

B04 - Tank External Protection - Fiberglass  
C02 - Pipe Location - Underground/On-ground  
F02 - Pipe External Protection - Original Sacrificial Anode  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

L09 - Piping Leak Detection - Exempt Suction Piping  
K01 - Spill Prevention - Catch Basin  
F06 - Pipe External Protection - Wrapped  
E00 - Piping Secondary Containment - None

Tank Number: 2  
Tank ID: 44037  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 29000  
Install Date: 10/01/1991  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Fiberglass coated steel  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

Tightness Test Method: 21  
Date Test: 05/30/2012  
Next Test Date: Not reported  
Pipe Model: A  
Modified By: BKFALVEY  
Last Modified: 06/29/2012

Equipment Records:

K01 - Spill Prevention - Catch Basin  
C02 - Pipe Location - Underground/On-ground  
F02 - Pipe External Protection - Original Sacrificial Anode  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
I02 - Overfill - High Level Alarm  
B04 - Tank External Protection - Fiberglass  
E00 - Piping Secondary Containment - None  
F06 - Pipe External Protection - Wrapped  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 3  
Tank ID: 37740  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 35000  
Install Date: 12/01/1975  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 14  
Date Test: 05/23/2013  
Next Test Date: 05/23/2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Pipe Model: Not reported  
Modified By: BKFALVEY  
Last Modified: 10/15/2013

Equipment Records:

C02 - Pipe Location - Underground/On-ground  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
E00 - Piping Secondary Containment - None  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
B00 - Tank External Protection - None  
K00 - Spill Prevention - None  
L00 - Piping Leak Detection - None

Tank Number: OLD 1  
Tank ID: 37738  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 33000  
Install Date: 05/01/1958  
Date Tank Closed: 11/01/1990  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping  
I04 - Overfill - Product Level Gauge (A/G)  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
H00 - Tank Leak Detection - None  
F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None  
B00 - Tank External Protection - None

Tank Number: OLD 2  
Tank ID: 37739  
Tank Status: Closed - Removed  
Material Name: Closed - Removed  
Capacity Gallons: 33000  
Install Date: 05/01/1958  
Date Tank Closed: 11/01/1990

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: TRANSLAT  
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping  
I04 - Overfill - Product Level Gauge (A/G)  
H00 - Tank Leak Detection - None  
F06 - Pipe External Protection - Wrapped  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
B00 - Tank External Protection - None

SPILLS:

Facility ID: 1001185  
Facility Type: ER  
DER Facility ID: 389102  
Site ID: 434216  
DEC Region: 2  
Spill Date: 2/28/2010  
Spill Number/Closed Date: 1001185 / 4/30/2010  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: RVKETANI  
Referred To: Not reported  
Reported to Dept: 4/30/2010  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Citizen  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 4/30/2010  
Spill Record Last Update: 4/30/2010  
Spiller Name: ralph troccio  
Spiller Company: wagner houses  
Spiller Address: 2360 first avenue  
Spiller City,St,Zip: manhattan, NY  
Spiller Company: 999  
Contact Name: MARK JUSINO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Contact Phone: (646) 409-5462  
DEC Memo: 4/30/10 - Raphael Ketani. An unknown vapor was reported as seeping through the walls by Mark Jusino (646) 409-5462 and affecting the breathing of the community. Mr. Jusino told the NRC that the incident originally occurred on 2/28/10 at 1700 hours. The NRC reported the incident today at 1400 hours. The location of the incident is the Wagner Houses at 2360 First Avenue, Manhattan. I investigated the incident and looked for other spills in the database with the same address. Spill #0811336 was called into the DEC as a result of an inspection by staff from the PBS Unit who noticed oil seeping through the boiler room wall. The notes in the case file state that the oil had been seeping through the wall since a tank was removed in 1989. This spill case was subsequently closed and referenced back to spill #8907784. This spill was opened on 11/6/89 and involved the release of oil from two tanks at the site. The case is still open and Jennifer Kann of DER Region 2, PBS Unit, is the case manager. Next, I tried to contact Mr. Jusino, but I could only leave a message. I contacted Ralph Troccio of the maintenance staff (718) 707-5725. I told him that DEC had a vapor complaint from a resident. I asked him whether there was oil seeping into the boiler room or the tank room, or outside. He said that there wasn't and that, right now, there is a steam main repair project going on. He said that there is excavation taking place on both sides of First Avenue in order to repair an underground steam line. The steam main has been leaking for awhile. He said that he had walked around the building and didn't see anything else that could possibly be affecting the residents. I thanked him for his efforts and ended the conversation. As there is no evidence of any other source of vapors in the area, I have determined that there is no threat to the public or the environment. Therefore, I am closing the spill case.

Remarks: Not reported

Material:

Site ID: 434216  
Operable Unit ID: 1185060  
Operable Unit: 01  
Material ID: 2179348  
Material Code: 0064A  
Material Name: UNKNOWN MATERIAL  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 8907784  
Facility Type: ER  
DER Facility ID: 117462  
Site ID: 96112  
DEC Region: 2  
Spill Date: 11/6/1989  
Spill Number/Closed Date: 8907784 / Not Reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: jkkann  
Referred To: Not reported  
Reported to Dept: 11/6/1989  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 1  
Date Entered In Computer: 11/13/1989  
Spill Record Last Update: 1/15/2009  
Spiller Name: Not reported  
Spiller Company: NYC HOUSING AUTHORITY  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: NEW YORK, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: 02/01/06: This spill transferred from J.Kolleeny to S.Kraszewski. This site is currently served by two 29K tanks installed in 1991 and one 35K tank installed in 1975. As a result of this spill, two previous 33K tanks installed in 1958 were removed in 1991. Two monitoring wells were installed in the vicinity of the new tanks to monitoring for any GW contamination linked to the seepage in the boiler room. For several years, no product was reported and oil seepage through the boiler room wall ceased. No documents on file for this spill since 1993. Need an update from NYCHA. - SK03/22/06: This spill transferred to K.Tang - SK01/15/09: Spill transferred to J.Kann. new spill called in by NYCHA after oil was observed seeping through the walls of the facility by a PBS inspector (Falvey). Spill 0811336 was closed and consolidated with this spill. Immediate follow-up will be required by NYCHA to determine if seepage is weathered oil from this historic spill, or if it is a new problem.1/15/09 - J.Kann - spoke with NYCHA's Ralph Trocchio. Indicated to him that he will need to determine if the oil seeping is weathered or new. If it is new, NYCHA will need to tightness test the tanks immediately, and put together a work plan. If it is weathered, the site should be moved up in schedule D and a work plan submitted this year.

Remarks: SUSPECT LEAKING UNDERGROUND FUEL LINE, 3 TANKS IN PLACE-TO DISCONTINUE USE OF TANKS 1 AND 2.

Material:  
Site ID: 96112  
Operable Unit ID: 932725  
Operable Unit: 01  
Material ID: 444565  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Material FA: Petroleum  
Quantity: 0  
Units: Not reported  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

**Tank Test:**

Site ID: 96112  
Spill Tank Test: 1536368  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

Facility ID: 9009488  
Facility Type: ER  
DER Facility ID: 117462  
Site ID: 324141  
DEC Region: 2  
Spill Date: 11/30/1990  
Spill Number/Closed Date: 9009488 / 7/6/1993  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: HEALY  
Referred To: Not reported  
Reported to Dept: 11/30/1990  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: Responsible Party  
Cleanup Ceased: 7/6/1993  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 12/11/1990  
Spill Record Last Update: 1/26/2006  
Spiller Name: Not reported  
Spiller Company: NYCHA  
Spiller Address: 250 BROADWAY  
Spiller City,St,Zip: NEW YORK, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: Not reported  
Remarks: MANHOLE COVER GASKET LEAK,CONTAINED IN TANK VAULT, TO BE CLEANED UP BYPROJECT PERSONNEL.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WAGNER HOUSES (Continued)**

**U000418237**

Material:

Site ID: 324141  
Operable Unit ID: 949923  
Operable Unit: 01  
Material ID: 429701  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 324141  
Spill Tank Test: 1537971  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

**AK217  
SW  
1/4-1/2  
0.398 mi.  
2104 ft.**

**ENGINE CO. 35/LADD. CO. 14 FDNY -DDC  
2232 3RD AVENUE  
MANHATTAN, NY  
Site 2 of 2 in cluster AK**

**NY LTANKS S106703844  
N/A**

**Relative:  
Higher**

LTANKS:

Site ID: 250400  
Spill Number/Closed Date: 9801567 / 5/9/2005  
Spill Date: 5/6/1998  
Spill Cause: Tank Overfill  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: ADZHITOM  
Referred To: Not reported  
Reported to Dept: 5/6/1998  
CID: 257  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 5/6/1998  
Spill Record Last Update: 5/9/2005

**Actual:  
17 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ENGINE CO. 35/LADD. CO. 14 FDNY -DDC (Continued)

S106703844

Spiller Name: CHRIS STEIN  
Spiller Company: ENGINE CO. 35  
Spiller Address: 2232 3RD AVE  
Spiller City,St,Zip: MANHATTAN, NY  
Spiller County: 001  
Spiller Contact: CHRIS STEIN  
Spiller Phone: (516) 499-1085  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 205235  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "KOLLEENY"ALTHOUGH SPILL REPORT SAYS CAUSE OF SPILL WAS TANK OVERFILL, AND THAT CONTAM. SOIL WAS FOUND DURING TANK REMOVAL, IN TRUTH, CONTAM. SOIL WAS FOUND DURING DRILLING OF BORING (AT DISPENSER) AS PART OF TANK CLOSURE-IN-PLACE INVESTIGATION. TANKS WERE NOT REMOVED; CAUSE OF SPILL WAS NOT OVERFILL.CHESEBROUGH ENGINEERING AND THEN URS CORP. PERFORMED SITE INVESTIGATIONS, FOUND SOME SOIL CONTAMINATION AND MINOR GROUNDWATER CONTAMINATION. URS INSTALLED A BIOVENTING SYSTEM TO ADDRESS SOIL AND PERFORMED GROUNDWATER MONITORING, STARTED SYSTEM IN MARCH 2003. BY OCTOBER 2003, GROUNDWATER MET STATE STANDARDS IN ALL MONITORING WELLS. DEC APPROVED NO FURTHER ACTION FOR GROUNDWATER, AND MONITORING WAS DISCONTINUED.URS PLANS TO ADVANCE SOIL BORINGS TO EVALUATE PROGRESS OF SOIL CLEANUP.Reviewed System Performance Monitoring Reports for June-Aug. '04 and Sept.-Nov. '04 on March 14, 2005; system appears to be operating adequately. Soil confirmation sampling has been performed but awaiting report with results. - J. Kolleeny 3/14/05Spill transferred from Kolleeny to A. Zhitomirsky on 4/4/05. - JK5-15-2005 Reviewed Performance Monitoring Report received on 4/1/2005 and Results of Confirmation Soil Sampling/Request for NFA received on 4/27/2005. No VOCs were detected in any of the confirmation soil samples. Minor SVOC exceedances were collected from soil borings SB-09 and SB-10. For the approximately six SVOCs that exceeded TAGM #4046 cleanup concentrations there is no apparent exposure pathway according to URS report. NFA letter was issued. AZ during tank removal caller found contaminated soil and today got test results back

Remarks:

Material:  
Site ID: 250400  
Operable Unit ID: 1062097  
Operable Unit: 01  
Material ID: 323498  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False  
Site ID: 250400  
Operable Unit ID: 1062097  
Operable Unit: 01  
Material ID: 323497  
Material Code: 0008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ENGINE CO. 35/LADD. CO. 14 FDNY -DDC (Continued)

S106703844

Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

218  
WSW  
1/4-1/2  
0.415 mi.  
2190 ft.

1824 PARK AVE/SUNOCO  
1824 PARK AVE  
MANHATTAN, NY

NY LTANKS S106703583  
N/A

Relative:  
Higher

LTANKS:

Actual:  
21 ft.

Site ID: 279281  
Spill Number/Closed Date: 9108459 / 10/13/2006  
Spill Date: 11/7/1991  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: SKCARLSO  
Referred To: NFA 10/13/06  
Reported to Dept: 11/7/1991  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 11/12/1991  
Spill Record Last Update: 10/13/2006  
Spiller Name: Not reported  
Spiller Company: SUNOCO A  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 226776  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SUN"04/12/04TRANSFERRED FROM SULLIVAN TO SUN1/6/06: Case reassigned to Andersen. Sent assessment required letter to Gary Spindler (listed on the PBS data sheet). Due back 3/2/06.3/13/06: Resent assessment required letter. 7/25/06: Spoke to Gary Spindler (212-929-9404). He said that he is not the current owner, and was not the owner in 1991

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1824 PARK AVE/SUNOCO (Continued)

S106703583

at the time of the spill. The 550 gallon tanks were removed from the property prior to sale of the property, but he does not have documentation of this. He said he would call back with contact information for the new owner. 8/9/06: New owner address from PropertyShark.com:Notice Address: Verizon Mortgage Group, Inc.1824 Park AvenueNew York, NY 10035Billing Address:City and Suburban Federal SavingsEab Plz E Tower 11FIUniondale, NY 11556New owner information from Acris:Verizon Mortgage Group, Inc.3333 Hyde Park Road, Suite 314New Hyde Park, NY 110428/10/06: Sent John Quatrale of Verizon New York an email to see if Verizon New York is affiliated with Verizon Mortgage Group.9/8/06: Sent letter requiring an assessment to Verizon Mortgage Group, 3333 Hyde Park Road and 1824 Park Avenue addresses. Assessment due back 11/10/06,9/12/06: Letter addressed to 1824 Park Avenue returned to sender.9/13/06: Received phone call from Steve Baranilo (516-775-5084).9/14/06: Spoke to Steve Baranilo. He is a consultant for Verizon Mortgage. 18 tanks were removed from the site and supervised by a PE, report submitted to the city at the time. A closure report will be submitted to the Department.9/18/06: Spoke to Ted Yen of Don Carlo Environmental Services. He is submitting a proposal to the owner to investigate the spill. fax: 718-857-2100.10/13/06- DEC Piper received tank closure report. Piper delivered to DEC Andersen10/13/06 - Andersen - Reviewed tank closure report submitted by Don Carlo Environmental Services, dated 10/12/06. Tanks removed on July 9, 2001. 12 550-gallon gasoline tanks (5 endpoint samples), 1 4,000-gallon gasoline tank (5 endpoint samples), 1 550-gallon fuel oil tank (1 endpoint sample) removed. Tanks were in good condition, showed no evidence of corrosion or pitting. All endpoint samples were ND. NFA letter issued.

Remarks: SIX 550'S LINKED. -.661 PETROTITE. E I & R

Material:

Site ID: 279281  
Operable Unit ID: 958759  
Operable Unit: 01  
Material ID: 420611  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 279281  
Spill Tank Test: 1539278  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

219  
SSW  
1/4-1/2  
0.426 mi.  
2249 ft.

230 EAST 123RD ST/MANH  
230 EAST 123RD STREET  
NEW YORK CITY, NY

NY LTANKS S104275544  
N/A

Relative:  
Higher

LTANKS:

Actual:  
14 ft.

Site ID: 167812  
Spill Number/Closed Date: 8905085 / 11/15/1994  
Spill Date: 8/22/1989  
Spill Cause: Tank Overfill  
Spill Source: Tank Truck  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: 11/15/1994  
Cleanup Meets Standard: True  
SWIS: 3101  
Investigator: SIGONA  
Referred To: Not reported  
Reported to Dept: 8/22/1989  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Citizen  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 9/6/1989  
Spill Record Last Update: 11/15/1994  
Spiller Name: Not reported  
Spiller Company: MYSTIC TRANSPORTERS  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 141374  
DEC Memo: Not reported  
Remarks: TANK OWNER HAD SUPERINTENDENT CLEAN UP SPILL WITH SPEEDY DRY, MYSTIC WILL INVESTIGATE.

Material:

Site ID: 167812  
Operable Unit ID: 932841  
Operable Unit: 01  
Material ID: 445523  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 30  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

230 EAST 123RD ST/MANH (Continued)

S104275544

Tank Test:

AL220  
WNW  
1/4-1/2  
0.435 mi.  
2295 ft.

RESIDENCE  
4 E. 132ND ST.  
NEW YORK CITY, NY 10014

NY LTANKS S106868663  
N/A

Site 1 of 2 in cluster AL

Relative:  
Higher

LTANKS:

Actual:  
17 ft.

Site ID: 337423  
Spill Number/Closed Date: 0412055 / 7/18/2005  
Spill Date: 2/11/2005  
Spill Cause: Tank Test Failure  
Spill Source: Private Dwelling  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: True  
SWIS: 3101  
Investigator: MDBRAND  
Referred To: Not reported  
Reported to Dept: 2/11/2005  
CID: 408  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 2/11/2005  
Spill Record Last Update: 7/18/2005  
Spiller Name: YOSHI  
Spiller Company: RESIDENCE  
Spiller Address: 4 EAST 132 ST.  
Spiller City,St,Zip: NEW YORK CITY, NY  
Spiller County: 999  
Spiller Contact: CHRIS GORGA  
Spiller Phone: (646) 772-1404  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 272766  
DEC Memo: 2/10/05 MT// Leak above product line, owner instructed not to refill tank, but he can use all of the oil currently in the tank. Owner's office 718-454-8555 contact Joe Cohen for the next 3 weeks, Yoshi is the lead person is going on vacation next week for 3 weeks. Owners plan to convert to gas, empty and remove the oil tank and conduct whatever cleanup that is needed.////TTF letter sent 07/18/2005: Called owner of the property at 4 East 132nd Street (Mr. Yoshi of 4 East 132nd Realty LLC) to determine status of cleanup. Yoshi faxed documentation of tank removal that occurred in March 2005. Contents of tank were removed, tank cleaned and purged, fill and vent lines cut, oil lines disconnected and removed, and the tank was cut up and removed. Tank closure was reviewed by a licensed NYC Fire Department Underground Tank Installer and a Certificate of Affidavit was submitted to the NYC Fire Department Bureau of Fire Prevention on April 21, 2005. There was no release of product from tank into the

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S106868663**

environment. Documentation was determined to be adequate to close spill. No Further Action letter sent to owner. M. Brand DER NYSDEC Albany.  
Remarks: ABOVE LIQUID LEVEL LEAK. HAS NOT BEEN CLEANED UP YET.

Material:

Site ID: 337423  
Operable Unit ID: 1099378  
Operable Unit: 01  
Material ID: 579718  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 337423  
Spill Tank Test: 1548583  
Tank Number: Not reported  
Tank Size: 1080  
Test Method: 03  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Watchdog  
Last Modified: 2/11/2005  
Test Method: Horner EZ Check I or II

221  
ESE  
1/4-1/2  
0.436 mi.  
2304 ft.

**SHELL OIL-ALBAMA AUTO CTR  
114 BRUCKNER BLVD  
BRONX, NY 10454**

**RCRA-CESQG 1001171453  
FINDS NY0001493014  
NY LTANKS  
NY MANIFEST  
NY Spills  
US AIRS**

Relative:  
Higher

RCRA-CESQG:

Date form received by agency: 01/01/2007  
Facility name: SHELL SERVICE STATION  
Facility address: 114 BRUCKNER BLVD  
BRONX, NY 104544516  
EPA ID: NY0001493014  
Mailing address: JERICHO PLZ SUITE 500W  
JERICHO, NY 11753  
Contact: Not reported  
Contact address: JERICHO PLZ SUITE 500W  
JERICHO, NY 11753  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar

Actual:  
22 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: SHELL OIL PRODUCTS CO  
Owner/operator address: 30 JERICHO PLZ SUITE 500W  
JERICHO, NY 11753  
Owner/operator country: US  
Owner/operator telephone: (516) 365-2489  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: SHELL OIL PRODUCTS CO  
Owner/operator address: 30 JERICHO PLZ SUITE 500W  
JERICHO, NY 11753  
Owner/operator country: US  
Owner/operator telephone: (516) 365-2489  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Facility name: SHELL SERVICE STATION  
Classification: Conditionally Exempt Small Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

1001171453

Date form received by agency: 07/08/1999  
Facility name: SHELL SERVICE STATION  
Classification: Not a generator, verified

Date form received by agency: 07/02/1997  
Facility name: SHELL SERVICE STATION  
Classification: Small Quantity Generator

Violation Status: No violations found

**FINDS:**

Registry ID: 110009462937

**Environmental Interest/Information System**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

**LTANKS:**

Site ID: 292391  
Spill Number/Closed Date: 9801880 / 2/25/2003  
Spill Date: 5/5/1998  
Spill Cause: Tank Failure  
Spill Source: Gasoline Station  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: KMFOLEY  
Referred To: Not reported  
Reported to Dept: 5/13/1998  
CID: 365  
Water Affected: Not reported  
Spill Notifier: Other  
Last Inspection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 5/13/1998  
Spill Record Last Update: 7/20/2005  
Spiller Name: DAVE MCNEIL  
Spiller Company: SHELL  
Spiller Address: 114 BRUCKNER BLVD  
Spiller City,St,Zip: BRONX, NY 10454-001  
Spiller County: 001  
Spiller Contact: DAVE MCNEIL  
Spiller Phone: (516) 365-7240  
Spiller Extension: Not reported  
DEC Region: 2  
DER Facility ID: 5904  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "K FOLEY"Reference spill #0303604, 0013495, 9413289.12/1/03 Reassigned from Sangesland to K Foley.  
Remarks: 4 1,000 GALLON GASOLINE TANKS - DURING AN UPGRADE OF TANKS ENCOUNTER CONTAMINATED SOIL - SOIL HAS BEEN EXCAVATED & READY FOR DISPOSAL - CROSS REF #94014389

Material:

Site ID: 292391  
Operable Unit ID: 1062420  
Operable Unit: 01  
Material ID: 323789  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 163322  
Spill Number/Closed Date: 0007588 / 10/25/2004  
Spill Date: 9/27/2000  
Spill Cause: Tank Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: KMFOLEY  
Referred To: Not reported  
Reported to Dept: 9/28/2000  
CID: 390  
Water Affected: Not reported  
Spill Notifier: Local Agency

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 9/28/2000  
Spill Record Last Update: 7/21/2005  
Spiller Name: BRUCE BECK  
Spiller Company: WOLF PETROLEUM  
Spiller Address: 119 BRUCKNER BLVD  
Spiller City,St,Zip: BRONX, ZZ  
Spiller County: 001  
Spiller Contact: BRUCE BECK  
Spiller Phone: (631) 226-9080  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 5904  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "K FOLEY" 12/4/03 Reassigned from Sangesland to Foley. Amoco (Wolf) site.2/24/04 File review(KMF):2/01 UST closure report submitted by National Env. for the removal of (1) 550gal wate oil UST. 2 bottom samples and 1 sidewall composite samples were all OK for VOCs. Bottom samples had mild SVOC hits. Sidewall samples had low SVOC hits. RCRA metals OK except for lead(minor).Subsequent boring samples from 8-10' below the excavation bottom were tested for TCLP for VOC/SVOC/lead and were all below limits. No groundwater samples taken.9/29/04 Met with B. Cohen(Certilman Balin Attorneys), B. Beck(Consultant, National Env.) with J. Rommel and L. Oliva. See spill #0203687 for gasoline TTF. B. Beck to provide a response by 10/15/04 regarding gasoline TTF.  
Remarks: underground tank was overfilled or failed

Material:

Site ID: 163322  
Operable Unit ID: 828342  
Operable Unit: 01  
Material ID: 545122  
Material Code: 0022  
Material Name: Waste Oil/Used Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 307768  
Spill Number/Closed Date: 9413289 / 2/25/2003  
Spill Date: 1/5/1995  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: KMFOLEY  
Referred To: Not reported  
Reported to Dept: 1/5/1995  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 2/27/1995  
Spill Record Last Update: 7/20/2005  
Spiller Name: Not reported  
Spiller Company: SHELL OIL COMPANY  
Spiller Address: ONE JERICHO PLAZA  
Spiller City,St,Zip: JERICHO, NY 11753-001  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 5904  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "K FOLEY"REPORT AND REQUEST FOR CLOSURE RECEIVED. WANT ADD'T SOILS INFORMATION. SHELL WILL DO GEOPROBE.12/1/03 Reassigned from Sangesland to K Foley. Reference spill #s 0013495, 0303604, 9801880.  
Remarks: NON PRODUCT BEARING FAILURE, ABOVE PRODUCT LINE RECOMMENDATION, UNCOVER, ISOLATE, RE-TEST.

Material:  
Site ID: 307768  
Operable Unit ID: 1010837  
Operable Unit: 01  
Material ID: 372034  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:  
Site ID: 307768  
Spill Tank Test: 1543503  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Last Modified: 10/1/2004  
Test Method: Unknown

**NY MANIFEST:**

EPA ID: NY0001493014  
Country: USA  
Mailing Name: SHELL OIL PRODUCTS CO  
Mailing Contact: CARYN SILVERSTEIN  
Mailing Address: 30 JERICHO EXEC PLAZA 500W  
Mailing Address 2: Not reported  
Mailing City: JERICHO  
Mailing State: NY  
Mailing Zip: 11753  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 516-365-2489

Document ID: ARA9257500  
Manifest Status: Not reported  
Trans1 State ID: OHD009865825  
Trans2 State ID: Not reported  
Generator Ship Date: 06/24/1998  
Trans1 Recv Date: 06/24/1998  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 07/24/1998  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NY0001493014  
Trans1 EPA ID: ARD069748192  
Trans2 EPA ID: Not reported  
TSD ID: 0902H205  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00975  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 01.00  
Year: 98

**SPILLS:**

Facility ID: 0203687  
Facility Type: ER  
DER Facility ID: 5904  
Site ID: 163323  
DEC Region: 2  
Spill Date: 7/8/2002  
Spill Number/Closed Date: 0203687 / 10/25/2004  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 0301  
Investigator: KMFOLEY  
Referred To: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Reported to Dept: 7/8/2002  
CID: 396  
Water Affected: Not reported  
Spill Source: Gasoline Station  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: True  
Remediation Phase: 0  
Date Entered In Computer: 7/8/2002  
Spill Record Last Update: 7/21/2005  
Spiller Name: Not reported  
Spiller Company: WOLF PETROLEUM  
Spiller Address: 125 JERICHO TURNPIKE  
Spiller City,St,Zip: JERICHO, NY  
Spiller Company: 001  
Contact Name: ADAM WOLF  
Contact Phone: (516) 997-9300  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "K FOLEY"1/8/04 Reassigned from Vought to K Foley.9/29/04 Met with B. Cohen(Certilman Balin Attorneys), B. Beck(Consultant, National Env.) with J. Rommel and L. Oliva. B. Beck to provide a response by 10/15/04. See spill #0007588 for waste oil tank test failure info.10/25/04 Received repair record and affidavit for the premium tank submersible performed by Gasoine Installations, Inc. and final passing tightness test results prepared by Crompco. Repair affidavit signed 10/15/04 states that there was no evidence of contamination when they replaced leaking fittings at the premium submersible union 7/9/02. Tanks passed test on 7/10/02.

Remarks: line leak...they will get a contractor to repair the leak

Material:

Site ID: 163323  
Operable Unit ID: 856576  
Operable Unit: 01  
Material ID: 521507  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 0303604  
Facility Type: ER  
DER Facility ID: 5904  
Site ID: 292390  
DEC Region: 2  
Spill Date: 7/7/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Spill Number/Closed Date: 0303604 / 12/7/2009  
Spill Cause: Deliberate  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: AAOBLIGA  
Referred To: NFA  
Reported to Dept: 7/7/2003  
CID: 216  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 7/7/2003  
Spill Record Last Update: 12/7/2009  
Spiller Name: UNK  
Spiller Company: SHELL  
Spiller Address: 114 BRUCKNER BLVD  
Spiller City,St,Zip: BRONX, NY -  
Spiller Company: 001  
Contact Name: ROB E RULE  
Contact Phone: (540) 943-8468  
DEC Memo: PBS #2-190802Reference spill #s 9413289, 9801880, 0013495.8/22/2003 Matt Schneck from Northeast Environmental Solutions, Inc. submitted a Closure report dated August 8, 2003. The report details removal of USTs, dispenser islands, hydraulic lifts and product piping. Digging down to bedrock, endpoint soil samples taken at bedrock interface. No groundwater samples were taken.8/25/2003 DEC requested a groundwater sample from the site.1/5/03 Reassigned from Sangesland to Foley. Added gasoline to material spilled due to TAGM exceedances from spills 0013495, 9801880, 9413289. Received well-installation report dated 12/30/03 from NES. Installed three monitoring wells. MW-1, in vicinity of former 550s, identified BTEX/MTBE at 5864ppb/3100ppb on 10/10/03. 5/18/04 Update report received (NES, 5/12/04). BTEX range from ND(MW-2, MW-3) to 7473ppb(MW-1). MTBE from 0.7ppb(MW-3) to 1380ppb(MW-1). Need further groundwater delineation around MW-1.7/22/04 Requested delineation around tank field/MW-1. M. Schneck, NES, will prepare map with proposed locations for Dept review.7/28/04 Received update report with well installation proposal.8/9/04 Sent access letters for installation of wells at 112 and 115 Bruckner Blvd. 9/8/04 M. Schneck notified Dept of drilling to be done 9/13-9/14.11/23/04 Met with M. Schneck, NES and R. Rule, Shell. Update report received. 2 offsite wells drilled 9/13 & 9/22. No soil contamination detected. Seeing mounding in MW-3 probably due to backfill by coarse gravel. MW-6 is crossgradient and showing some BTEX(711ppb) but no MTBE. MW-6 has a high benzene(511ppb) to xylenes(90ppb) ratio while MW-1 has low benzene(60ppb) to xylenes(2080ppb) ratio. Hess and Amoco nearby. Station no longer operating.12/10/04 Update from M. Schneck- did some research on documented releases inthe vicinity of the 114 Bruckner Blvd site that could be impacting theoff-site well we installed at the NW corner of Bruckner Blvd. and BrownPlace (MW-6). The Hess (former Merit at

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

126-128 Bruckner Blvd.) east of the site (up-gradient?) has multiple spills assigned to it. Spill # 8606553 is from a 750-gallon gasoline spill resulting from an overflow of the USTs. Spill # 9205097 was called in during UST removal activities when contaminated soil was encountered. Spill #9405017 is from another overflow, the amount of which is not specified. The Amoco(Wolf) northeast at 119 Bruckner Blvd has (2) spills associated with it, one being for an unknown amount of gasoline spilled on land (#0203687), and the other being for a used oil UST failing a tightness test (#0007588). Both spills are closed. 12/15/04 Sent email to M. Schneck. Agreed that if concentrations are consistent in next round and GW flow direction is confirmed, MW-6 can be decommissioned. 12/20/04 Email from M. Schneck received. Will schedule hi-vac on MW-1 to try to reduce concentrations. 2/8/05 Update report received. Recent GW monitoring indicates MW-6 is sidegradient from on-site well MW-1. Also, GW analytical data for off-site well MW-6 has a high benzene to xylenes ratio and MTBE concentrations below the MDL. This is inconsistent with lab data for MW-1 with low benzene to xylenes ratio and MTBE concentrations >100ppb. Requesting sampling be discontinued at MW-6. 5/19/05 Spoke to new property owner, Mr. Christopher Persheff (212-772-7550 X28), at Bradford Sweet Management LLC. He had received a stop work order from DOB which told him he had to meet DEPs requirements. I told him that he would have to comply with both DEP and DEC separately. He will be constructing a commercial building, Dunkin Donuts, on site. Shell has already removed the tanks and will be conducting gw monitoring. 5/20/05 C. Persheff sent letter stating that he spoke to M. Schneck and his tenant, Mr. Sethi. During demolition, the wells became filled with soil. His tenant will be repairing/replacing the wells at his cost. 5/31/05 Email to C. Persheff outlining requirements for investigation and RAP(to include soil samples under foundation and vapor mitigation). Stipulation due 6/15/05. Little "E" designated site. Callista Nazaire of DEP copied. 6/1/05 Spoke to M. Schneck, NES. Shell plans on doing the remediation. Shell will possibly sign stipulation agreement. 6/20/05 Received copy of letter from LCS (for BNS Mgmt) to D. Cabbagestalk, NYCDEP. Requesting approval to proceed with construction. 8/5/05 Received copy of letter from D. Cabbagestalk(718-595-4451), NYCDEP, which requires soil vapor investigation (2 indoor air samples from basement, 2 sub-slab samples) and specifications for vapor barrier. 9/14/05 Received copy of letter from D. Cabbagestalk, NYCDEP, to Marshall Kaminer, Bronx Borough Commissioner. Based upon analytical results for ambient indoor and outdoor air samples, NYCDEP does not object to construction. 2/1/06 Meeting with Shell, SAIC, Longshore. Will send sensitive receptor survey and model based on worst case scenario to do exposure assessment. 3 wells sampled 12/30/05. BTEX ranged from ND(MW-5,8) to 85ppb(MW-6). 3/22/06 Reassigned from Foley to Tang.(KMF)8/22/08 - Obligado - Reassigned to Obligado as per BRevdo 12/7/09 - Obligado - Completed review of the spill file. According to previous closure reports, endpoint samples from the removal of UST and piping in 2003 were below soil cleanup criteria down to approximately 6 to 8 ft bgs in the vicinity of the tanks and dispensers and to 2 ft bgs in the vicinity of the piping and remote fills. Limited exceedences may still be present at the 4 ft interval at the remote fill based on a 2001 Soil boring investigation. However the 7 ft interval just above the bedrock was below SCOs. Soil impacts in the vicinity of the remote fill appears limited and does not appear to be impacted ground water quality. The

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Remarks: most recent ground water results based on 3Q09 data had only one exceedence xylenes at 8 ug/l. MTBE was ND at all locations. After discussion with DEC Tibbe, this spill is closed. someone tipped over a drum that was stock piled spill is on the ground and will be recovered

Material:

Site ID: 292390  
Operable Unit ID: 871652  
Operable Unit: 01  
Material ID: 2106570  
Material Code: 1213A  
Material Name: MTBE (METHYL-TERT-BUTYL ETHER)  
Case No.: 01634044  
Material FA: Hazardous Material  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: True  
Site ID: 292390  
Operable Unit ID: 871652  
Operable Unit: 01  
Material ID: 504468  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: True  
Site ID: 292390  
Operable Unit ID: 871652  
Operable Unit: 01  
Material ID: 504469  
Material Code: 0022  
Material Name: Waste Oil/Used Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: True

Tank Test:

Facility ID: 0013495  
Facility Type: ER  
DER Facility ID: 5904  
Site ID: 292389  
DEC Region: 2  
Spill Date: 3/26/2001  
Spill Number/Closed Date: 0013495 / 7/11/2002



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Spill Cause: Unknown  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 0301  
Investigator: KMFOLEY  
Referred To: Not reported  
Reported to Dept: 3/26/2001  
CID: 207  
Water Affected: Not reported  
Spill Source: Gasoline Station  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 3/26/2001  
Spill Record Last Update: 7/20/2005  
Spiller Name: ROB RULE  
Spiller Company: SHELL EQUIVA SERVICES LLC  
Spiller Address: PO BOX 1243  
Spiller City,St,Zip: WAYNESBORO, VA 22980-001  
Contact Name: MATT SCHNECK  
Contact Phone: (516) 586-1800  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "K FOLEY"7/11/2002 - Spill Status switched to "No Further Action" If this property use is ever changed in the future, Equiva/Shell will be responsible for remediating the "Hot Spots" which remain on the site.8/25/2003 - Shell pulled all tanks, dispensers, pipes etc. Report prepared by Northeast Environmental Solutions Inc. showed clean endpoints after excavation work. DEC requested a water sample in order to give closure.12/1/03 Reassigned from Sangesland to K Foley.Reference #0303604, 9801880, 9413289.

Remarks: contaminated soil found underneath dispenserssoil borings to be performed

Material:  
Site ID: 292389  
Operable Unit ID: 834974  
Operable Unit: 01  
Material ID: 540205  
Material Code: 0009  
Material Name: Gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

AIRS (AFS):

Airs Minor Details:

EPA plant ID: 110009462937  
Plant name: SHELL OIL-ALBAMA AUTO CTR  
Plant address: 114 BRUCKNER BLVD  
BRONX, NY 10454  
County: BRONX  
Region code: 02  
Dunn & Bradst #: Not reported  
Air quality cntrl region: 043  
Sic code: 5541  
Sic code desc: GASOLINE SERVICE STATIONS  
North Am. industrial classf: Not reported  
NAIC code description: Not reported  
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR  
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT  
Current HPV: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1004  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1101  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1103  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1201  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1202  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1204  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1302  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
Hist compliance date: 1303  
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SHELL OIL-ALBAMA AUTO CTR (Continued)**

**1001171453**

Hist compliance date: 1102  
 Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
 Hist compliance date: 1104  
 Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
 Hist compliance date: 1203  
 Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
 Hist compliance date: 1301  
 Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:

Air program code: SIP SOURCE  
 Plant air program pollutant: Not reported  
 Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR  
 Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
 Def. attainment/non atnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT  
 Repeat violator date: Not reported  
 Turnover compliance: Not reported

Air program code: SIP SOURCE  
 Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS  
 Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR  
 Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS  
 Def. attainment/non atnmnt: Not reported  
 Repeat violator date: Not reported  
 Turnover compliance: Not reported

AL222  
 WNW  
 1/4-1/2  
 0.440 mi.  
 2323 ft.

**NYC TRANSIT AUTH**  
**132E & W 132ND ST**  
**NEW YORK, NY**  
 Site 2 of 2 in cluster AL

**NY LTANKS S105996185**  
**N/A**

**Relative:**  
**Higher**

LTANKS:

Site ID: 121180  
 Spill Number/Closed Date: 0203324 / 3/31/2004  
 Spill Date: 6/27/2002  
 Spill Cause: Tank Test Failure  
 Spill Source: Commercial/Industrial  
 Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 3101  
 Investigator: MCTIBBE  
 Referred To: Not reported  
 Reported to Dept: 6/27/2002  
 CID: 255  
 Water Affected: Not reported  
 Spill Notifier: Tank Tester  
 Last Inspection: Not reported  
 Recommended Penalty: False

**Actual:**  
**17 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NYC TRANSIT AUTH (Continued)**

**S105996185**

UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 6/27/2002  
Spill Record Last Update: 3/31/2004  
Spiller Name: CALLER  
Spiller Company: NYC TRANSIT AUTHORITY  
Spiller Address: 370 JAY STREET  
Spiller City,St,Zip: BROOKLYN, NY 11201-001  
Spiller Contact: MICHAEL SEPE  
Spiller Phone: (631) 586-4900  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 105179  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIBBE"6/28- MICHAEL - LEFT MESSAGErefer to 02-03317  
Remarks: Product line failure - failed at .033/hr - double wall piping - no impact - spill contained

Material:

Site ID: 121180  
Operable Unit ID: 856266  
Operable Unit: 01  
Material ID: 521153  
Material Code: 0008  
Material Name: Diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

223  
NNE  
1/4-1/2  
0.449 mi.  
2372 ft.

**ECOLOGY RECYCLING PLANT**  
**321 CANAL PLACE**  
**BRONX, NY 10451**

**NY SWRCY S105842268**  
**N/A**

**Relative:**  
**Higher**

SWRCY:  
Region: 2  
Facility Address 2: Not reported  
Phone Number: 2126650770  
Owner Type: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner Address 2: Not reported  
Owner City,St,Zip: Not reported  
Owner Email: Not reported  
Owner Phone: Not reported  
Contact Name: ANTHONY LACAVALLA  
Contact Address: Not reported  
Contact Address 2: Not reported

**Actual:**  
**18 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ECOLOGY RECYCLING PLANT (Continued)**

**S105842268**

Contact City,St,Zip: Not reported  
Contact Email: Not reported  
Contact Phone: Not reported  
Activity Desc: RHRF - registration  
Activity Number: [03M27]  
Active: No  
East Coordinate: Not reported  
North Coordinate: Not reported  
Accuracy Code: Not reported  
Regulatory Status: Not reported  
Permit #: 2-6004-00040  
Auth. Date: Not reported  
Expiration Date: Not reported  
Waste Types: Not reported

**AM224**  
**WSW**  
**1/4-1/2**  
**0.450 mi.**  
**2377 ft.**

**STORE FRONT**  
**124 EAST 124TH ST.**  
**NEW YORK, NY**

**NY LTANKS** **S107417004**  
**N/A**

**Site 1 of 2 in cluster AM**

**Relative:**  
**Higher**

**LTANKS:**

**Actual:**  
**21 ft.**

Site ID: 354231  
Spill Number/Closed Date: 0508613 / 8/3/2006  
Spill Date: 10/18/2005  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: rvketani  
Referred To: Not reported  
Reported to Dept: 10/18/2005  
CID: 406  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 10/18/2005  
Spill Record Last Update: 8/4/2006  
Spiller Name: CHRIS GORGA  
Spiller Company: STORE FRONT  
Spiller Address: 124 E. 124TH ST.  
Spiller City,St,Zip: NEW YORK, NY  
Spiller County: 999  
Spiller Contact: CHRIS GORGA  
Spiller Phone: (646) 772-1404  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 301567  
DEC Memo: need to send ttf letter toProperty Manager:Mr. Joe Berko  
(212-687-0777)Berko & Associates501 Fifth Ave - Suite 1408New York,  
NY 10017Nov. 7, 2005A "Tank Test Failure Letter" was sent to:Joe  
BerkoBerko & Assoc.501 Fifth Ave- Suite 1408New York, NY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STORE FRONT (Continued)**

**S107417004**

1001711/16/05-Vought-Spoke with Maya Betesh (212-687-0777) and she will be faxing in repair invoices.05/17/06-Vought-Spill transferred from DEC Vought to DEC Ketani as per DEC Austin.6/14/06 - Raphael Ketani. I called up Berko & Associates and asked to speak to the case manager for the property. I spoke to Joseph Berko. He said that all of the documentation showing that the tank was abandoned in place and that everything was taken care of was sent some time ago. I told him I don't have anything to look at. He said he will send it again. 6/15/06 - Raphael Ketani. Mr. Berko called me back. He stated that the tank was abandoned in place. I looked up the PBS case #2-610163 and it showed the tank abandoned in place. I told Mr. Berko that I needed the failed tank test results, why the tank failed, and a letter report from Brookside Environmental, the company that abandoned the tank, stating that there were no impacts to drains or the environment. He said he would get these documents for me. 7/20/06 - Raphael Ketani. I left a message for Mr. Berko asking what was presently taking place at the site. 8/2/06 - Raphael Ketani. I spoke to Mr. Berko. He said he was just the mortgage broker at the time. He said that he has the information and will get me the documentation that I need.8/4/06 - Raphael Ketani. I received the dry fail tank and system test results and the cover letter from Eastside Floors stating there was no environmental impact or impact to the sewer system or drainage system. Also the cover letter stated that no oil was spilled as it was a dry leak, that the tank was abandoned in place, and that they have converted to electric heat.Based upon the above listed documentation, I am closing the spill case.

Remarks: Systems test failure. No product released.

Material:

Site ID: 354231  
Operable Unit ID: 1111659  
Operable Unit: 01  
Material ID: 2101699  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Site ID: 354231  
Spill Tank Test: 1549413  
Tank Number: Not reported  
Tank Size: 15000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Watchdog  
Last Modified: 10/18/2005  
Test Method: Horner EZ Check I or II

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

225  
ENE  
1/4-1/2  
0.459 mi.  
2425 ft.

**UNKNOWN**  
**308 WILLIS AVE**  
**BRONX, NY**

NY LTANKS

S110541017  
N/A

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**28 ft.**

Site ID: 439950  
Spill Number/Closed Date: 1006590 / Not Reported  
Spill Date: 9/17/2010  
Spill Cause: Tank Test Failure  
Spill Source: Private Dwelling  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 0301  
Investigator: smsanges  
Referred To: Not reported  
Reported to Dept: 9/17/2010  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 1  
Date Entered In Computer: 9/17/2010  
Spill Record Last Update: 9/17/2010  
Spiller Name: UNKNOWN HOMEOWNER  
Spiller Company: UNKNOWN HOMEOWNER  
Spiller Address: 308 WITHER AVE  
Spiller City,St,Zip: BRONX, NY  
Spiller County: 999  
Spiller Contact: UNKNOWN HOMEOWNER  
Spiller Phone: (516) 250-5848  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 394952  
DEC Memo: Tank is UNDER 1080 gal - non PBS. They did not have an exact size. There is no visible spill at this site, only a TTF.  
Remarks: tank test failure, no other info known

Material:

Site ID: 439950  
Operable Unit ID: 1190579  
Operable Unit: 01  
Material ID: 2185607  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S110541017**

Tank Test:

**226  
SW  
1/4-1/2  
0.466 mi.  
2460 ft.**

**TAINO TOWER DRY CLEANERS  
2253 3RD AVE  
NEW YORK, NY**

**RCRA NonGen / NLR  
FINDS  
NY LTANKS  
NY UST  
NY HIST UST  
NY MANIFEST**

**1000318008  
NYD980778732**

**Relative:  
Higher**

RCRA NonGen / NLR:

**Actual:  
16 ft.**

Date form received by agency: 01/01/2007  
Facility name: TAINO TOWERS DRY CLEANERS  
Facility address: 2253 3RD AVE  
NEW YORK, NY 10035  
EPA ID: NYD980778732  
Mailing address: 3RD AVE  
NEW YORK, NY 10035  
Contact: Not reported  
Contact address: 3RD AVE  
NEW YORK, NY 10035  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: Not reported  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: Not reported  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: TAINO TOWERS DRY CLEANERS  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Facility name: TAINO TOWERS DRY CLEANERS  
Classification: Not a generator, verified

Date form received by agency: 10/12/1984  
Facility name: TAINO TOWERS DRY CLEANERS  
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004392229

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110055936670

Environmental Interest/Information System

LTANKS:

Site ID: 255361  
Spill Number/Closed Date: 0000963 / Not Reported  
Spill Date: 4/22/2000  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: TJDEMEO  
Referred To: Not reported  
Reported to Dept: 4/24/2000  
CID: 281  
Water Affected: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 1  
Date Entered In Computer: 4/24/2000  
Spill Record Last Update: 8/13/2012  
Spiller Name: M DIAZ  
Spiller Company: ARCO MANAGMENT  
Spiller Address: 2940 AVE X  
Spiller City,St,Zip: BROOKLYN, NY  
Spiller County: 001  
Spiller Contact: M DIAZ  
Spiller Phone: (212) 369-3755  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 361545  
DEC Memo: spill assigned to James Drumm for SC19/26/05 phone conversation with owner's rep Manny Diaz. Manny Diaz says the report was previously sent to region 2. He will re-send the report of the repairs and re-test. Still haven't received report. 02/20/09-Hiralkumar Patel. issued notice of violation for following reasons:- failure to renew registration (registration expired on 10/23/1997)- failure to color code fill ports- failure to test tank/piping (no tank test record available from 11/01/1997 to 03/15/2006)- failure to monitor unmetered tank for leaks- failure to notify of petroleum discharge (spill # 0810730 was reported by FDNY, but not by management)- failure to contain and/or remove petroleum discharge (no reports available)08/13/12 - LZ As Randy Austin requested, the spill has been reassigned to Tim DeMeo

Remarks: TANK TEST FAILURE AT ABOVE LOCATION. PROPERTY MANAGER ADVISED OF THE TEST RESULTS. TANK TO BE ISOLATED AND RETESTED. NO CALL BACK BEING REQUESTED.

Material:  
Site ID: 255361  
Operable Unit ID: 822729  
Operable Unit: 01  
Material ID: 289193  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:  
Site ID: 255361  
Spill Tank Test: 1525523  
Tank Number: 3  
Tank Size: 20000  
Test Method: 03  
Leak Rate: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Gross Fail: F  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

Site ID: 255360  
Spill Number/Closed Date: 0000962 / 11/17/2003  
Spill Date: 4/21/2000  
Spill Cause: Tank Test Failure  
Spill Source: Non Major Facility > 1,100 gal  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: SIGONA  
Referred To: Not reported  
Reported to Dept: 4/24/2000  
CID: 281  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0

Date Entered In Computer: 4/24/2000  
Spill Record Last Update: 11/17/2003  
Spiller Name: M DIAZ  
Spiller Company: ARCO MANAGMENT  
Spiller Address: 2940 AVE X  
Spiller City,St,Zip: BROOKLYN, NY  
Spiller County: 001  
Spiller Contact: M DIAZ  
Spiller Phone: (212) 369-3755  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 209163  
DEC Memo: Not reported  
Remarks: TANK TEST FAILURE AT ABOVE LOCATION. PROPERTY MANAGER ADVISED OF THE  
TEST RESULTS. TANK TO BE ISOLATED AND RETESTED. NO CALL BACK BEING  
REQUESTED.

Material:  
Site ID: 255360  
Operable Unit ID: 822677  
Operable Unit: 01  
Material ID: 289192  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Tank Test:

Site ID: 255360  
Spill Tank Test: 1525522  
Tank Number: 2  
Tank Size: 20000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: F  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

Site ID: 360637  
Spill Number/Closed Date: 0514031 / 12/19/2006  
Spill Date: 3/8/2006  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Cleanup Ceased: Not reported

Cleanup Meets Standard: False

SWIS: 3101

Investigator: HRPATEL

Referred To: Not reported

Reported to Dept: 3/8/2006

CID: 444

Water Affected: Not reported

Spill Notifier: Tank Tester

Last Inspection: Not reported

Recommended Penalty: False

UST Involvement: False

Remediation Phase: 0

Date Entered In Computer: 3/8/2006

Spill Record Last Update: 12/22/2006

Spiller Name: MANNY DIAS

Spiller Company: TAINO TOWER

Spiller Address: 2253 3RD AVE

Spiller City,St,Zip: NEW YORK, NY

Spiller County: 001

Spiller Contact: MANNY DIAS

Spiller Phone: (212) 369-3755

Spiller Extention: Not reported

DEC Region: 2

DER Facility ID: 209163

DEC Memo: 03/08/06 Feroze, PBS case of this spill is # 2-240680. TTF is sent to:Robert Algarin2253 Third AveNew york, NY 1003503/15/06. Spill is transferred from Feroze to Kumer Patel.03/21/06-Hiralkumar Patel. Spoke with John Laddy at Protest. this site has three 20,000 gal USTs on location and they were transferring oil from one tank to another. during this transfer, tank overfilled and spill happened on concrete side walk and asphalt street (possible from vent pipe). Protest has cleaned the site. John doesn't know about concrete condition but nothing went down to sewer/drain. DEP has visited site already.03/23/06-Hiralkumar Patel. Spoke with John at Protest. John will go on site to replace faulty valve on tank. he will call me with updates.03/24/06-Hiralkumar Patel. called for Manny Dias

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

(212-369-3755 Ext 11), but he will be in office on Monday Mar 27 2006.03/28/06-Hiralkumar Patel. Spoke with Mr. Dias. as per him, oil came out from vent pipe and spilled on concrete side walk and then ran on asphalt street. there are no cracks in concrete on sidewalk. no soil/sewer/drain affected. the tank had faulty pressure gauge on it. tank is currently empty and out of service. they are working on replacing this faulty gauge. all cleaned up. no complaints. Spoke with Mr. Melnick at Protest and asked him to send me copy of invoice once he done changing faulty gauge. He told me that they are going to replace it soon once they find out problem with gauge.04/21/06-Hiralkumar Patel. Spoke with Mr. Melnick. they got permission to do repair work, but they haven't got chance to do it. they will probably go in next week. he will call once he done with repair work.05/05/06-Hiralkumar Patel. Spoke to Mr. Melnick at Protest. they will start work probably on May 15. 06/22/06-Hiralkumar Patel. visited site on 06/20/2006. spoke to William, super of building & to Maria Cruz, executive director. tank was still empty on time of visit. no work done yet. spoke with Mr. Dias and asked to call back with updates. Maria Cruz Executive Director ARCO2253 3rd Ave, 5th Floor New York, NY 10035 PH. (212) 369-3755 Fax (212) 369-6215 Email: taino@acromgt.com mcruz@arcomgt.com spoke with John at Protest. he explained that oil spill happened due to overflow of tank. they have tested all three tanks and tank system passed test. asked John to fax me test results. John suggest Mr. Dias to repair/replace valve to prevent further spill. spoke with Mr. Dias. he explained that due to air pressure inside "syphon", oil in one tank reached to top and overflowed. and piece of syphon was leaking and that why it created air pressure. Mr. Dias was planning to change that defected piece of pipe in September as winter season starts. asked him to submit work invoice once he done with such repair work. spoke with John at protest again. he explained that this site doesn't have syphon. instead these tanks are connected through valves in supply/return lines. so if they need, they can open/close valve to transfer oil from one tank to another. when John did test, he did test by isolating each tank system from another two.06/26/06-Hiralkumar Patel. Left message for Mr. Dias.06/29/06-Hiralkumar Patel. Spoke to John and asked to send tank test results for all three tanks.07/05/06-Hiralkumar Patel. Spoke to John at Protest. he has misplaced tank test results, once he gets it, he will forward it to the Department. Left message for Mr. Dias.07/10/06-Hiralkumar Patel. spoke with Mr. Dias and asked him to send tank test results for all tanks.11/14/06-Hiralkumar Patel. left message for Mr. Dias.12/01/06-Hiralkumar Patel. left message for Mr. Dias.12/19/06-Hiralkumar Patel. spoke with Bob at Protest. he will check for tank test result and will fax if he finds it. spoke with Mr. Dias. they have repaired leaking valve. received tank test result from Bob from Protest. all three tanks were passed test. spoke with DEC Jacob about PBS registration. PBS registration expired on 10/23/1997. i gave tank test results to DEC Brian to update PBS record. sent email to Jacob with site address, manager's name and address. based on available tank test result and other informations, case closed.12/22/06-Hiralkumar Patel. received work invoice copy, about repair of leaking valve, from Mr. Dias.

Remarks:

while doing product came out of another tank; clean up crew enroute

Material:

Site ID:

360637

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Operable Unit ID: 1117781  
Operable Unit: 01  
Material ID: 2108290  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

**Tank Test:**

Site ID: 360637  
Spill Tank Test: 1549781  
Tank Number: 1  
Tank Size: 20000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Watchdog  
Last Modified: 3/8/2006  
Test Method: Horner EZ Check I or II

**UST:**

Id/Status: 2-240680 / Active  
Program Type: PBS  
Region: STATE  
DEC Region: 2  
Expiration Date: 2012/10/23  
UTM X: 589705.47482999996  
UTM Y: 4517336.79055999996  
Site Type: Apartment Building/Office Building

**Affiliation Records:**

Site Id: 9129  
Affiliation Type: Mail Contact  
Company Name: TAINO TOWERS (E HARLEM PILOT BLOCK, INC.  
Contact Type: Not reported  
Contact Name: MARIA CRUZ  
Address1: 2253 3RD AVE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035  
Country Code: 001  
Phone: (212) 369-3755  
EMail: TAINO@MULTIFAMILYMGT.COM  
Fax Number: Not reported  
Modified By: dxliving  
Date Last Modified: 4/23/2009

Site Id: 9129  
Affiliation Type: Emergency Contact  
Company Name: E. HARLEM PILOT BLOCK, INC (TAINO TOWERS)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Contact Type: Not reported  
Contact Name: MARIA CRUZ  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: (212) 369-3755  
EMail: Not reported  
Fax Number: Not reported  
Modified By: dxliving  
Date Last Modified: 4/23/2009

Site Id: 9129  
Affiliation Type: On-Site Operator  
Company Name: TAINO TOWERS  
Contact Type: Not reported  
Contact Name: MARIA CRUZ  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 001  
Phone: (212) 369-3755  
EMail: Not reported  
Fax Number: Not reported  
Modified By: dxliving  
Date Last Modified: 4/23/2009

Site Id: 9129  
Affiliation Type: Facility Owner  
Company Name: E. HARLEM PILOT BLOCK, INC (TAINO TOWERS)  
Contact Type: EXECUTIVE DIRECTOR  
Contact Name: Not reported  
Address1: 2253 3RD AVE  
Address2: Not reported  
City: NEW YORK  
State: NY  
Zip Code: 10035  
Country Code: 001  
Phone: (212) 369-3755  
EMail: Not reported  
Fax Number: Not reported  
Modified By: dxliving  
Date Last Modified: 4/23/2009

Tank Info:

Tank Number: 001  
Tank ID: 25183  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 20000  
Install Date: 01/01/1972  
Date Tank Closed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 21  
Date Test: 03/15/2006  
Next Test Date: 03/15/2011  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 04/23/2009

Equipment Records:

G00 - Tank Secondary Containment - None  
B00 - Tank External Protection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
H00 - Tank Leak Detection - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Number: 002  
Tank ID: 25184  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 20000  
Install Date: 01/01/1972  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 21  
Date Test: 03/15/2006  
Next Test Date: 03/15/2011  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 04/23/2009

Equipment Records:

B00 - Tank External Protection - None  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Tank Number: 003  
Tank ID: 25185  
Tank Status: In Service  
Material Name: In Service  
Capacity Gallons: 20000  
Install Date: 01/01/1972  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Steel/carbon steel  
Material Code: 0001  
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 21  
Date Test: 03/15/2006  
Next Test Date: 03/15/2011  
Pipe Model: Not reported  
Modified By: dxliving  
Last Modified: 04/23/2009

Equipment Records:

B00 - Tank External Protection - None  
C00 - Pipe Location - No Piping  
F00 - Pipe External Protection - None  
I04 - Overfill - Product Level Gauge (A/G)  
H00 - Tank Leak Detection - None  
G00 - Tank Secondary Containment - None  
A00 - Tank Internal Protection - None  
D01 - Pipe Type - Steel/Carbon Steel/Iron  
J02 - Dispenser - Suction Dispenser  
L09 - Piping Leak Detection - Exempt Suction Piping

HIST UST:

PBS Number: 2-240680  
SPDES Number: Not reported  
Emergency Contact: ROBERT ALGARIN  
Emergency Telephone: (212) 369-6982  
Operator: ROBERT ALGARIN  
Operator Telephone: (212) 369-3755  
Owner Name: TAINO TOWERS  
Owner Address: 2253 3RD AVE  
Owner City,St,Zip: NEW YORK, NY 10035  
Owner Telephone: (212) 369-3755  
Owner Type: Corporate/Commercial  
Owner Subtype: Not reported  
Mailing Name: TAINO TOWERS  
Mailing Address: 2253 3RD AVE  
Mailing Address 2: Not reported  
Mailing City,St,Zip: NEW YORK, NY 10035  
Mailing Contact: Not reported  
Mailing Telephone: (212) 369-3755  
Owner Mark: First Owner  
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.  
Facility Addr2: 2253 3RD AVE 5TH  
SWIS ID: 6201

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Old PBS Number: Not reported  
Facility Type: ;  
Inspected Date: Not reported  
Inspector: Not reported  
Inspection Result: Not reported  
Federal ID: Not reported  
Certification Flag: False  
Certification Date: 05/15/2000  
Expiration Date: 10/23/1997  
Renew Flag: False  
Renewal Date: Not reported  
Total Capacity: 60000  
FAMT: True  
Facility Screen: No Missing Data  
Owner Screen: Minor Data Missing  
Tank Screen: Minor Data Missing  
Dead Letter: False  
CBS Number: Not reported  
Town or City: NEW YORK CITY  
County Code: 62  
Town or City: 01  
Region: 2

Tank Id: 001  
Tank Location: UNDERGROUND  
Tank Status: In Service  
Install Date: Not reported  
Capacity (gals): 20000  
Product Stored: NOS 1,2, OR 4 FUEL OIL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Product Level Gauge  
Dispenser: Suction  
Date Tested: 03/31/2000  
Next Test Date: 03/31/2005  
Missing Data for Tank: Minor Data Missing  
Date Closed: Not reported  
Test Method: Horner EZ Check  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 002  
Tank Location: UNDERGROUND  
Tank Status: In Service  
Install Date: Not reported  
Capacity (gals): 20000  
Product Stored: NOS 1,2, OR 4 FUEL OIL  
Tank Type: Steel/carbon steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Product Level Gauge  
Dispenser: Suction  
Date Tested: 11/01/1992  
Next Test Date: 11/01/1997  
Missing Data for Tank: Minor Data Missing  
Date Closed: Not reported  
Test Method: Horner EZ Check  
Deleted: False  
Updated: True  
Lat/long: Not reported

Tank Id: 003  
Tank Location: UNDERGROUND  
Tank Status: In Service  
Install Date: Not reported  
Capacity (gals): 20000  
Product Stored: NOS 1,2, OR 4 FUEL OIL  
Tank Type: Steel/carbon steel  
Tank Internal: Not reported  
Tank External: Not reported  
Pipe Location: Not reported  
Pipe Type: STEEL/IRON  
Pipe Internal: Not reported  
Pipe External: Not reported  
Second Containment: None  
Leak Detection: None  
Overfill Prot: Product Level Gauge  
Dispenser: Suction  
Date Tested: 11/01/1992  
Next Test Date: 11/01/1997  
Missing Data for Tank: Minor Data Missing  
Date Closed: Not reported  
Test Method: Horner EZ Check  
Deleted: False  
Updated: True  
Lat/long: Not reported

**NY MANIFEST:**

EPA ID: NYD980778732  
Country: USA  
Mailing Name: TAINO TOWERS DRY CLEANERS  
Mailing Contact: TAINO TOWERS DRY CLEANERS  
Mailing Address: 2253 THIRD AVE  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10035  
Mailing Zip4: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Mailing Country: USA  
Mailing Phone: 212-348-5312

Document ID: NJA0615517  
Manifest Status: Completed copy  
Trans1 State ID: 000000000  
Trans2 State ID: 000000000  
Generator Ship Date: 890728  
Trans1 Recv Date: 890728  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890728  
Part A Recv Date: 890807  
Part B Recv Date: 890802  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA1348617  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 921117  
Trans1 Recv Date: 921117  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 921117  
Part A Recv Date: 921201  
Part B Recv Date: 921209  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00042  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Document ID: NJA2527276  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 960730  
Trans1 Recv Date: 960730  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 960730  
Part A Recv Date: 960809  
Part B Recv Date: 960813  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD984908202  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 96

Document ID: NJA0223483  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 860814  
Trans1 Recv Date: 860814  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 860814  
Part A Recv Date: 860827  
Part B Recv Date: 860825  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD000805911  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00120  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 86

Document ID: NJA0720683  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 900103  
Trans1 Recv Date: 900103  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 900103  
Part A Recv Date: 900109

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Part B Recv Date: 900123  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 90

Document ID: NJA1076937  
Manifest Status: Completed copy  
Trans1 State ID: 032921  
Trans2 State ID: Not reported  
Generator Ship Date: 901025  
Trans1 Recv Date: 901025  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 901025  
Part A Recv Date: 901105  
Part B Recv Date: 901107  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 90

Document ID: NJA0797121  
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC  
Trans1 State ID: 000000000  
Trans2 State ID: 000000000  
Generator Ship Date: 900516  
Trans1 Recv Date: 900516  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 900516  
Part A Recv Date: 900629  
Part B Recv Date: 900529  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 90

Document ID: NJA1068250  
Manifest Status: Completed copy  
Trans1 State ID: NJDEP8690  
Trans2 State ID: Not reported  
Generator Ship Date: 910222  
Trans1 Recv Date: 910222  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 910222  
Part A Recv Date: 910312  
Part B Recv Date: 910308  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 91

Document ID: NYA8722001  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 880317  
Trans1 Recv Date: 880317  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 880317  
Part A Recv Date: 880405  
Part B Recv Date: 880405  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00095  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 88

Document ID: NJA1207678  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Trans2 State ID: Not reported  
Generator Ship Date: 910605  
Trans1 Recv Date: 910605  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 910605  
Part A Recv Date: 910612  
Part B Recv Date: 910617  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 91

Document ID: NJA1814379  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 940202  
Trans1 Recv Date: 940202  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 940202  
Part A Recv Date: 940210  
Part B Recv Date: 940217  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD984908202  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 94

Document ID: NJA0254584  
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 870115  
Trans1 Recv Date: 870115  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 870115  
Part A Recv Date: 870213  
Part B Recv Date: 870204  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD000805911



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Trans2 EPA ID: Not reported  
TSDF ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00150  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 87

Document ID: NJA1342389  
Manifest Status: Completed copy  
Trans1 State ID: NJDEP8690  
Trans2 State ID: Not reported  
Generator Ship Date: 911121  
Trans1 Recv Date: 911121  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 911121  
Part A Recv Date: Not reported  
Part B Recv Date: 911203  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 91

Document ID: NJA0233855  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 861017  
Trans1 Recv Date: 861017  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 861017  
Part A Recv Date: 861027  
Part B Recv Date: 861028  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD000805911  
Trans2 EPA ID: Not reported  
TSDF ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00150  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Year: 86

Document ID: NJA0504861  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 881123  
Trans1 Recv Date: 881123  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 881123  
Part A Recv Date: 881205  
Part B Recv Date: 881212  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 88

Document ID: NJA1329985  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 920402  
Trans1 Recv Date: 920402  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 920402  
Part A Recv Date: 920410  
Part B Recv Date: 920414  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

Document ID: NJA2050972  
Manifest Status: Completed copy  
Trans1 State ID: S8690  
Trans2 State ID: Not reported  
Generator Ship Date: 950412  
Trans1 Recv Date: 950412

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAINO TOWER DRY CLEANERS (Continued)**

**1000318008**

Trans2 Recv Date: Not reported  
TSD Site Recv Date: 950412  
Part A Recv Date: 950420  
Part B Recv Date: 950421  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD984908202  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 95

Document ID: NJA0172942  
Manifest Status: Completed copy  
Trans1 State ID: Not reported  
Trans2 State ID: Not reported  
Generator Ship Date: 860409  
Trans1 Recv Date: 860409  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 860409  
Part A Recv Date: 860415  
Part B Recv Date: 860422  
Generator EPA ID: NYD980778732  
Trans1 EPA ID: ILD000805911  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00310  
Units: P - Pounds  
Number of Containers: 003  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 86

**AM227**  
**WSW**  
**1/4-1/2**  
**0.472 mi.**  
**2490 ft.**

**100 E. 124TH ST**  
**100 E. 124TH ST**  
**NEW YORK, NY**  
**Site 2 of 2 in cluster AM**

**NY LTANKS** **S102662621**  
**N/A**

**Relative:**  
**Higher**

LTANKS:  
Site ID: 238245  
Spill Number/Closed Date: 9514542 / 1/28/1997  
Spill Date: 2/13/1996  
Spill Cause: Tank Overfill  
Spill Source: Private Dwelling  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101

**Actual:**  
**22 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

100 E. 124TH ST (Continued)

S102662621

Investigator: UNASSIGNED  
Referred To: Not reported  
Reported to Dept: 2/13/1996  
CID: 196  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 2/13/1996  
Spill Record Last Update: 4/22/2005  
Spiller Name: ROBERT CABASSA  
Spiller Company: BOBBY JACKSON JR  
Spiller Address: MB TRUCKING  
Spiller City,St,Zip: NY  
Spiller County: 001  
Spiller Contact: ROBERT CABASSA  
Spiller Phone: (718) 328-3275  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 196223  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "X"  
Not reported  
Remarks: While Filling Oil Tank An Overflow Occured Casuing About 1 GAL.OF  
NUMBER 4 TO FALL ON THE GOROUND. SPILL CLEANED UP BY DRIVER. USING  
SPEEDY DRY.

Material:  
Site ID: 238245  
Operable Unit ID: 1029097  
Operable Unit: 01  
Material ID: 354670  
Material Code: 0002A  
Material Name: #4 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: Yes  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

228  
North  
1/4-1/2  
0.472 mi.  
2492 ft.

CON ED - EXTERIOR ST STORAGE YARD  
281 EXTERIOR ST  
BRONX, NY

RCRA NonGen / NLR 1006810635  
FINDS NYR000114579  
NY SWF/LF  
NY MANIFEST

Relative:  
Higher

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007  
Facility name: CON ED - EXTERIOR ST STORAGE YARD  
Facility address: 281 EXTERIOR ST  
BRONX, NY 10462

Actual:  
9 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON ED - EXTERIOR ST STORAGE YARD (Continued)**

**1006810635**

EPA ID: NYR000114579  
Mailing address: MATTHEWS AVE  
BRONX, NY 10462  
Contact: ROSEMARIE GIORDANO  
Contact address: MATTHEWS AVE  
BRONX, NY 10462  
Contact country: US  
Contact telephone: (718) 904-4648  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CONSOLIDATED EDISON CO OF NY INC  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, NY  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 12/29/1926  
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON CO OF NY INC  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, NY  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 12/29/1926  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: CON ED - EXTERIOR ST STORAGE YARD  
Classification: Not a generator, verified

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON ED - EXTERIOR ST STORAGE YARD (Continued)**

**1006810635**

Date form received by agency: 03/27/2003  
Facility name: CON ED - EXTERIOR ST STORAGE YARD  
Classification: Small Quantity Generator

Violation Status: No violations found

**FINDS:**

Registry ID: 110014447713

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**SWF/LF:**

Flag: INACTIVE  
Region Code: 2  
Phone Number: 2124604833  
Owner Name: Not reported  
Owner Type: Not reported  
Owner Address: Not reported  
Owner Addr2: Not reported  
Owner City,St,Zip: Not reported  
Owner Email: Not reported  
Owner Phone: Not reported  
Contact Name: HARRY A. COATES  
Contact Address: Not reported  
Contact Addr2: Not reported  
Contact City,St,Zip: Not reported  
Contact Email: Not reported  
Contact Phone: Not reported  
Activity Desc: C&D processing - registration  
Activity Number: [03W70]  
Active: No  
East Coordinate: 590086  
North Coordinate: 4518544  
Accuracy Code: Not reported  
Regulatory Status: Not reported  
Waste Type: Not reported  
Authorization #: Not reported  
Authorization Date: Not reported  
Expiration Date: Not reported

**NY MANIFEST:**

EPA ID: NYR000114579  
Country: USA  
Mailing Name: CON ED - EXTERIOR ST STORAGE YARD  
Mailing Contact: FRANKLYN MURRAY  
Mailing Address: 4 IRVING PL RM 828  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CON ED - EXTERIOR ST STORAGE YARD (Continued)

1006810635

Mailing Zip: 10003  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-460-2808

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 2008-04-09  
Trans1 Recv Date: 2008-04-09  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2008-04-10  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000114579  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD077444263  
Waste Code: Not reported  
Quantity: 130.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 2.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 001446935FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 2008-04-09  
Trans1 Recv Date: 2008-04-09  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2008-04-10  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000114579  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD077444263  
Waste Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CON ED - EXTERIOR ST STORAGE YARD (Continued)**

**1006810635**

Quantity: 130.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 2.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 001446935FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141

Document ID: Not reported  
Manifest Status: Not reported  
Trans1 State ID: NYD006982359  
Trans2 State ID: Not reported  
Generator Ship Date: 2008-04-09  
Trans1 Recv Date: 2008-04-09  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 2008-04-10  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000114579  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSD ID: NYD077444263  
Waste Code: Not reported  
Quantity: 130.0  
Units: K - Kilograms (2.2 pounds)  
Number of Containers: 2.0  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 1.0  
Year: 2008  
Manifest Tracking Num: 001446935FLE  
Import Ind: N  
Export Ind: N  
Discr Quantity Ind: N  
Discr Type Ind: N  
Discr Residue Ind: N  
Discr Partial Reject Ind: N  
Discr Full Reject Ind: N  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: H141



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AN229**  
**NW**  
**1/4-1/2**  
**0.477 mi.**  
**2517 ft.**

**RIVERTON APARTMENTS**  
**2225-2237 5TH AVE**  
**NEW YORK, NY**

**NY LTANKS**    **S106385597**  
**N/A**

**Site 1 of 2 in cluster AN**

**Relative:**  
**Higher**

LTANKS:

**Actual:**  
**11 ft.**

Site ID: 260631  
 Spill Number/Closed Date: 0313699 / 6/19/2006  
 Spill Date: 3/15/2004  
 Spill Cause: Tank Test Failure  
 Spill Source: Institutional, Educational, Gov., Other  
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 3101  
 Investigator: Unassigned  
 Referred To: Not reported  
 Reported to Dept: 3/15/2004  
 CID: 444  
 Water Affected: Not reported  
 Spill Notifier: Tank Tester  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: False  
 Remediation Phase: 0  
 Date Entered In Computer: 3/15/2004  
 Spill Record Last Update: 8/21/2008  
 Spiller Name: ADAM HOLLAR  
 Spiller Company: RIVERTON APARTMENTS  
 Spiller Address: 22-25 5TH AVE  
 Spiller City,St,Zip: NEW YORK, NY 999  
 Spiller Contact: ADAM HOLLAR  
 Spiller Phone: (212) 234-7500  
 Spiller Extention: Not reported  
 DEC Region: 2  
 DER Facility ID: 212873  
 DEC Memo:

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "DEMEMO"send TTF letter.7/26/04 Tipple spoke with Mr. Hollar, Tim DeMeo working on site with Mr. Hollar///cleanup in progress///Site transferred to DeMeo, spill report faxed to Mr. Hollar, tank and contaminated soil to be removedDurnin: This spill was associated with spill 0312468 (#2 oil seeping from 25,000 gal. UST into basement) which was closed on May 16, 2006. This spill, #0313699, was a tank test failure of the same 25,000 gal. UST. Durnin:August 23, 2005-Airtek Environmental Corp. was hired to oversee the removal and replacement of the 25,000 gallon UST.Durnin:August 25, 2005-Durnin visits site to witness tank excavation pit and affected basement.Durnin:August 31, 2005- Durnin visits site to witness installation of new 25,000 gallon UST.Durnin: February 13, 2006-Airtek Environmental Corp. submits a Remedial Action Report, Exposure Assessment report and a CD of photographs.Durnin:The Remedial Action Report was reviewed and approved on April 17, 2006.Durnin:Spill No. 0313699 was closed based on the Remedial Action Report and a subsequent site investigation findings by the Owner's environmental consultant.Durnin:The site was closed on June 19, 2006.  
 Remarks: DRY LERAK AND THEY HANDLING IT AT THIS TIME:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERTON APARTMENTS (Continued)**

**S106385597**

Material:  
Site ID: 260631  
Operable Unit ID: 880814  
Operable Unit: 01  
Material ID: 495296  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

230  
North  
1/4-1/2  
0.477 mi.  
2519 ft.

**HIPPODROME SVCS  
310 WALTON AVE  
BRONX, NY 10451**

**NY LTANKS 1009225499  
NY MANIFEST N/A**

**Relative:  
Higher**

LTANKS:  
Site ID: 79679  
Spill Number/Closed Date: 9312938 / 2/2/1994  
Spill Date: 2/2/1994  
Spill Cause: Tank Overfill  
Spill Source: Tank Truck  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: 2/2/1994  
Cleanup Meets Standard: True  
SWIS: 0301  
Investigator: SMMARTIN  
Referred To: Not reported  
Reported to Dept: 2/2/1994  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 2/3/1994  
Spill Record Last Update: 3/12/2003  
Spiller Name: Not reported  
Spiller Company: BAERENKLAU  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 73950

**Actual:  
31 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HIPPODROME SVCS (Continued)**

**1009225499**

DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "MARTINKAT"

Remarks: CONTAINED ON PAVEMENT - CLEAN UP IS DONE.

Material:

Site ID: 79679  
Operable Unit ID: 991449  
Operable Unit: 01  
Material ID: 388342  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

NY MANIFEST:

EPA ID: NYD000002733  
Country: USA  
Mailing Name: HIPPODROME SVCS  
Mailing Contact: N/S  
Mailing Address: 310 WALTON AVE  
Mailing Address 2: Not reported  
Mailing City: BRONX  
Mailing State: NY  
Mailing Zip: 10451  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 718-402-9092

Document ID: NYC6386141  
Manifest Status: Not reported  
Trans1 State ID: SCR000075150  
Trans2 State ID: SCR000074591  
Generator Ship Date: 02/08/2001  
Trans1 Recv Date: 02/08/2001  
Trans2 Recv Date: 02/13/2001  
TSD Site Recv Date: 02/18/2001  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD000002733  
Trans1 EPA ID: OHD980587364  
Trans2 EPA ID: Not reported  
TSD ID: EH2705NY  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HIPPODROME SVCS (Continued)**

**1009225499**

Handling Method: B Incineration, heat recovery, burning.  
 Specific Gravity: 01.00  
 Year: 2001

**231  
 SW  
 1/4-1/2  
 0.477 mi.  
 2519 ft.**

**RESIDENCE  
 212 EAST 122ND STREET  
 NEW YORK, NY 10035**

**NY LTANKS S104621346  
 N/A**

**Relative:  
 Higher**

**LTANKS:**

**Actual:  
 15 ft.**

Site ID: 148719  
 Spill Number/Closed Date: 0000067 / 3/17/2008  
 Spill Date: 4/3/2000  
 Spill Cause: Tank Test Failure  
 Spill Source: Commercial/Industrial  
 Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
 Cleanup Ceased: Not reported  
 Cleanup Meets Standard: False  
 SWIS: 3101  
 Investigator: JMKRIMGO  
 Referred To: Not reported  
 Reported to Dept: 4/3/2000  
 CID: 389  
 Water Affected: Not reported  
 Spill Notifier: Tank Tester  
 Last Inspection: Not reported  
 Recommended Penalty: False  
 UST Involvement: False  
 Remediation Phase: 0  
 Date Entered In Computer: 4/3/2000  
 Spill Record Last Update: 3/17/2008  
 Spiller Name: Not reported  
 Spiller Company: WAYNE STOCK  
 Spiller Address: GAC COMPANY  
 Spiller City,St,Zip: ZZ  
 Spiller County: 001  
 Spiller Contact: CALLER  
 Spiller Phone: Not reported  
 Spiller Extention: Not reported  
 DEC Region: 2  
 DER Facility ID: 30232  
 DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "TIPPLE"Original ttf letter sent April 3,20004/10/03 letter requiring report documenting work done associated with 2000 ttf describing proper removal/abandonment/ soil testing. both letters in file.9/1/04 property sold//made contact with purchasers attorney//sending request for documentation to Telluride Realty and attorney's office.6/15/05: Reassigned to Benjamin 10/28/05- Letter sent Telluride realty (owner)requesting information. No response. Followup needed with owner.3/06 - File to be sent to Region 2 for followup02/6/08. TTF letter has been sent to July DaoyLCSP.O.Box 406,Buffalo, NY 14205-JK-3/17/08. J.Krimgold reviewed a letter dated 02/14/08 submitted by Associated Environmental Services, Ltd. According to the letter the most probable cause of the t/t failure was a gasket at the man-way, which was subsequently replaced. Tank was retested and passed. NFA.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S104621346**

Remarks: tank test failure from an u/g tank no leak to the environment no callback necessary

Material:  
Site ID: 148719  
Operable Unit ID: 821747  
Operable Unit: 01  
Material ID: 288337  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 0  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:  
Site ID: 148719  
Spill Tank Test: 1525440  
Tank Number: 1  
Tank Size: 3000  
Test Method: 03  
Leak Rate: 0  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: 10/1/2004  
Test Method: Horner EZ Check I or II

**AO232**  
**WNW**  
**1/4-1/2**  
**0.488 mi.**  
**2575 ft.**

**SPILL NUMBER 0209164**  
**25 W 132ND ST**  
**MANHATTAN, NY**  
**Site 1 of 2 in cluster AO**

**NY LTANKS** **S105997514**  
**NY Spills** **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**19 ft.**

LTANKS:  
Site ID: 260802  
Spill Number/Closed Date: 0209164 / 12/6/2002  
Spill Date: 12/6/2002  
Spill Cause: Tank Overfill  
Spill Source: Private Dwelling  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: RWAUSTIN  
Referred To: Not reported  
Reported to Dept: 12/6/2002  
CID: 211  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPILL NUMBER 0209164 (Continued)**

**S105997514**

Remediation Phase: 0  
Date Entered In Computer: 12/6/2002  
Spill Record Last Update: 9/3/2004  
Spiller Name: TONY PERETTA  
Spiller Company: MYSTIC TRANSPORTATION  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ -  
Spiller County: 001  
Spiller Contact: GEORGE WHITE - HAMPTON MG  
Spiller Phone: (212) 862-6380  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 212998  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "AUSTIN" 12/6/02 - AUSTIN, DDO - CONTACTED PERRETTA TO CONFIRM THAT MYSTIC SENDING CREW TO DO THE CLEAN-UP - SPILL IMPACTED FLOWERBED, ACCORDING TO PERETTA - THEY WERE DELIVERING ON BEHALF OF STUYVESANT FUEL (718-993-5400) - MARGARET AT STUYVESANT GAVE HAMPTON MGT. (GEORGE WHITE) AS CONTACT FOR BLDG. SPOKE WITH MR. WHITE (212-862-6380) AND TOLD HIM TO CALL US TO LET US KNOW IF CLEANUP WAS DONE TO HIS SATISFACTION. 12/6, 4:30 PM - AUSTIN - SPOKE W/MR. WHITE - HE INDICATED THAT MYSTIC WAS STILL WORKING ON THE CLEANUP, AND THAT HE WAS SATISFIED SO FAR. THEY HAD REMOVED THE CONTAMINATED SOIL, AND WOULD REPLACE THE SOIL. HE ESTIMATED THE SPILL VOLUME AT 20-25 GALS. I TOLD HIM THAT WE WOULD CLOSE OUT THE SPILL, AND IF HE FELT THE CLEAN-UP WASN'T BEING FINISHED PROPERLY, HE SHOULD CONTACT US, AND WE WOULD REOPEN/INVESTIGATE THE MATTER. CASE CLOSED.  
Remarks: DRIVER READ GAUGE WRONG LEADING TO OVERFILL - CLEAN UP CREW CONTACTED

Material:  
Site ID: 260802  
Operable Unit ID: 862333  
Operable Unit: 01  
Material ID: 516143  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

SPILLS:  
Facility ID: 9812932  
Facility Type: ER  
DER Facility ID: 212998  
Site ID: 260803  
DEC Region: 2  
Spill Date: 1/21/1999  
Spill Number/Closed Date: 9812932 / 1/25/1999  
Spill Cause: Equipment Failure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPILL NUMBER 0209164 (Continued)**

**S105997514**

Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: SIGONA  
Referred To: Not reported  
Reported to Dept: 1/21/1999  
CID: 382  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1/21/1999  
Spill Record Last Update: 1/26/1999  
Spiller Name: GEORGE WHITE  
Spiller Company: HESS OIL COMPANY  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: GEORGE WHITE  
Contact Phone: (212) 862-6380  
DEC Memo: Not reported  
Remarks: THE GAGE ON THE TANK WAS FAULTY AND THE TANK LEAKED. DRIVER ON SITE TO BEGIN CLEAN UP.

Material:  
Site ID: 260803  
Operable Unit ID: 1070186  
Operable Unit: 01  
Material ID: 313207  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 25  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

AO233  
WNW  
1/4-1/2  
0.488 mi.  
2575 ft.

**SIDE WALK OUTSIDE  
25 WEST 132ND ST.  
MANHATTAN, NY  
Site 2 of 2 in cluster AO**

**NY LTANKS S103827436  
NY Spills N/A**

Relative:  
Higher

LTANKS:  
Site ID: 270106  
Spill Number/Closed Date: 0406637 / 9/21/2004  
Spill Date: 9/16/2004  
Spill Cause: Tank Overfill

Actual:  
19 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIDE WALK OUTSIDE (Continued)**

**S103827436**

Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 3101  
Investigator: TJDMEEO  
Referred To: Not reported  
Reported to Dept: 9/16/2004  
CID: 407  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 9/16/2004  
Spill Record Last Update: 9/21/2004  
Spiller Name: MIKE PALKOWIZ  
Spiller Company: HESS  
Spiller Address: 238 WEST FORT LEE ROAD  
Spiller City,St,Zip: BOGOTA, NJ 07601  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 219966  
DEC Memo:

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "DEMEO"Demeo responded to the site, A.L. Eastmond did cleanup.9/20/2004 Sangesland spoke to Issac at Eastmond. He said the surface clean up was done, but two days later a nearby school said there was still a smell so more digging was required9/21/2004 Issac at Eastmond says cleanup is done. This was the second recent major spill on this site. Cross Ref #0404538 from July 2004. Problem is there are 2 tanks. Building switched the tank numbers and Hess is pumping the oil into the wrong tank which causes the overflow and a spill.Eastmond recommends an overflow protection on tanks.Endpoints, photos and a closure report will be sent into DEC.This spill is closed - Spill 0404538 remains open until report is submitted.  
Remarks: A L Eastmond is en route for clean up.

Material:  
Site ID: 270106  
Operable Unit ID: 889268  
Operable Unit: 01  
Material ID: 487829  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIDE WALK OUTSIDE (Continued)**

**S103827436**

Tank Test:

**SPILLS:**

Facility ID: 0404538  
Facility Type: ER  
DER Facility ID: 219966  
Site ID: 270105  
DEC Region: 2  
Spill Date: 7/27/2004  
Spill Number/Closed Date: 0404538 / 5/11/2005  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 3101  
Investigator: SMSANGES  
Referred To: Not reported  
Reported to Dept: 7/27/2004  
CID: 405  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 7/27/2004  
Spill Record Last Update: 5/11/2005  
Spiller Name: MR. WOODLY  
Spiller Company: PARKING LOT  
Spiller Address: 25 WEST 132ND ST.  
Spiller City,St,Zip: MANHATTAN, NY  
Spiller Company: 001  
Contact Name: MR. WOODLY  
Contact Phone: (212) 862-6380  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "SANGESLAND"Sangesland spoke to Nick Pascel of Hess. He said it was a tank overfill and 20 gal of heated #6 came out of the vent line. On to soil. Eastmond has been mobilized to clean up. - Confirm cleanup directly with Eastmond7/28/2004 - Sangesland spoke to Rene at Eastmond. He said they pulled out 75 bags of contaminated soil. They will take endpoint samples and will take pictures. When all are done, report will be sent in for closure. 9/16/2004 Sangesland spoke to Issac at Eastmond. A second major spill happened at this site (in the hole that was dug to clean out the last spill). Apparently there are 2 tanks at the site and the building switched the tank numbers. When Hess delivers to "tank 1" they are filling "tank 2". Eastmond suggests installing an overfill alarm.Issac says that they already cleaned up the hole and will now take endpoint samples and photos to close this case out. The new spill number for today's spill (0406637) has been closed out and referenced back to this spill number.9/28/2004 Sangesland spoke to DeMeo about the spill site. Photo of the site showed most of the latest spill went out into a parking lot area. there was a 2' x 10' area of garden and a small

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIDE WALK OUTSIDE (Continued)**

**S103827436**

bush, right up next to the building under the vent lines that was saturated in oil. This area needs to be dug out, clean endpoints and the area "should" be cemented over because if it's location under the vent lines. 11/26/2004 Sangesland spoke to rep from Hess to request building's management company #.Need to confirm with property manager that remediation/cement work was completed.

Remarks: IN DIRT PARKING LOT, DEFECTIVE GAUGE IN THE TANK

Material:

Site ID: 270105  
Operable Unit ID: 887636  
Operable Unit: 01  
Material ID: 488523  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 20  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

Facility ID: 9812948  
Facility Type: ER  
DER Facility ID: 266414  
Site ID: 331248  
DEC Region: 2  
Spill Date: 1/21/1999  
Spill Number/Closed Date: 9812948 / 1/25/1999  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 3101  
Investigator: SIGONA  
Referred To: Not reported  
Reported to Dept: 1/21/1999  
CID: 211  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Affected Persons  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1/21/1999  
Spill Record Last Update: 1/26/1999  
Spiller Name: MR GREENBERG  
Spiller Company: HESS OIL COMPANY  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIDE WALK OUTSIDE (Continued)**

**S103827436**

Contact Name: MR GREENBERG  
Contact Phone: (212) 862-6380  
DEC Memo: Not reported  
Remarks: DEFECTIVE GAUGE CAUSED SPILL - CALLER HAS CLEAN UP CREW ENROUTE

Material:  
Site ID: 331248  
Operable Unit ID: 1070202  
Operable Unit: 01  
Material ID: 313222  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

234  
SW  
1/4-1/2  
0.488 mi.  
2576 ft.

2021 LEXINGTON AVENUE  
2021 LEXINGTON AVENUE  
MANHATTAN, NY

NY LTANKS S101341130  
N/A

Relative:  
Higher

LTANKS:  
Site ID: 202136  
Spill Number/Closed Date: 9410094 / 12/30/2003  
Spill Date: 10/27/1994  
Spill Cause: Tank Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Cleanup Ceased: Not reported  
Cleanup Meets Standard: True  
SWIS: 3101  
Investigator: SJMILLER  
Referred To: Not reported  
Reported to Dept: 10/28/1994  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Affected Persons  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 12/5/1994  
Spill Record Last Update: 12/30/2003  
Spiller Name: Not reported  
Spiller Company: UNKNOWN-OWNER  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported

Actual:  
18 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2021 LEXINGTON AVENUE (Continued)**

**S101341130**

Spiller Phone: Not reported  
Spiller Extension: Not reported  
DEC Region: 2  
DER Facility ID: 168148  
DEC Memo: Prior to Sept, 2004 data translation this spill Lead\_DEC Field was "MILLER"11/1/94, MILLER INSPECTED SITE, OBSERVING CONCRETE ENCASED AST IN BASEMENT WITH SOME SPILLAGE FROM FITTINGS. INSTRUCTED SPILLER TO CLEAN UP AND INSTALL WEEP HOLES IN CONCRETE BASE. LARGE ABANDONED LOT FILLS BACK SIDE OF SITE. SOME UNRESOLVED DOSMESTIC ISSUES BETWEEN CALLER AND SPILLER HAVE TO BE WORKED OUT ON THEIR OWN.B  
Remarks: TANKED LEAKED IN BASEMENT

Material:  
Site ID: 202136  
Operable Unit ID: 1004033  
Operable Unit: 01  
Material ID: 375965  
Material Code: 0001A  
Material Name: #2 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: -1  
Units: Pounds  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

**AN235**  
**NW**  
**1/4-1/2**  
**0.489 mi.**  
**2580 ft.**

**10 W 135TH ST**  
**10 W 135TH ST**  
**NEW YORK, NY**

**NY LTANKS** **S102671276**  
**N/A**

**Site 2 of 2 in cluster AN**

**Relative:**  
**Higher**

LTANKS:  
Site ID: 148350  
Spill Number/Closed Date: 8801143 / 2/27/1989  
Spill Date: 5/5/1988  
Spill Cause: Tank Overfill  
Spill Source: Private Dwelling  
Spill Class: Not reported  
Cleanup Ceased: 2/27/1989  
Cleanup Meets Standard: True  
SWIS: 3101  
Investigator: SIGONA  
Referred To: Not reported  
Reported to Dept: 5/5/1988  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 4/11/1988

**Actual:**  
**13 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

10 W 135TH ST (Continued)

S102671276

Spill Record Last Update: 2/27/1989  
Spiller Name: Not reported  
Spiller Company: AMARADA HESS  
Spiller Address: 231 W FT. LEE RD.  
Spiller City,St,Zip: BOGATA, NJ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 2  
DER Facility ID: 126259  
DEC Memo: Not reported  
Remarks: ADSORBANT MATERIAL DOWN/ BUILDING DOES NOT ALLOW TO STICK TANKS/ THUS OVERFLOW OCCURRED .ADDITIONAL MEASURES WERE TAKEN AFTER MEETING WITH HESS.THE CLEAN-UP OF AREAS WERE INVESTIGATED BY FIELD DEC.

Material:

Site ID: 148350  
Operable Unit ID: 916631  
Operable Unit: 01  
Material ID: 460299  
Material Code: 0003A  
Material Name: #6 Fuel Oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 55  
Units: Gallons  
Recovered: No  
Resource Affected: Not reported  
Oxygenate: False

Tank Test:

236  
NNW  
1/2-1  
0.634 mi.  
3349 ft.

2350 FIFTH AVENUE CORP  
2350 5TH AVE  
NEW YORK, NY 10037

RCRA-CESQG 1000108749  
FINDS NYD071026173  
NY SHWS  
NY VAPOR REOPENED  
NY MANIFEST

Relative:  
Lower

RCRA-CESQG:  
Date form received by agency:01/01/2007  
Facility name: 2350 FIFTH AVENUE CORP  
Facility address: 2350 5TH AVE  
NEW YORK, NY 100371101  
EPA ID: NYD071026173  
Mailing address: 5TH AVE  
NEW YORK, NY 10037  
Contact: Not reported  
Contact address: 5TH AVE  
NEW YORK, NY 10037  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Land type: Private  
Classification: Conditionally Exempt Small Quantity Generator

Actual:  
4 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: 2350 FIFTH AVENUE CORP  
Owner/operator address: 2350 5TH AVE  
NEW YORK, NY 10037  
Owner/operator country: US  
Owner/operator telephone: (212) 234-5000  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: 2350 FIFTH AVENUE CORP  
Owner/operator address: 2350 5TH AVE  
NEW YORK, NY 10037  
Owner/operator country: US  
Owner/operator telephone: (212) 234-5000  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Facility name: 2350 FIFTH AVENUE CORP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/08/1999

Facility name: 2350 FIFTH AVENUE CORP

Classification: Not a generator, verified

Date form received by agency: 04/24/1998

Facility name: 2350 FIFTH AVENUE CORP

Site name: 2350 FIFTH AVE CORP

Classification: Large Quantity Generator

Date form received by agency: 06/06/1997

Facility name: 2350 FIFTH AVENUE CORP

Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 08/03/1989  
Date achieved compliance: 08/03/1989  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 01/05/1988  
Date achieved compliance: 01/05/1988  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/05/1988  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 08/13/1990  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/01/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Evaluation date: 08/03/1989  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 08/03/1989  
Evaluation lead agency: State

Evaluation date: 01/05/1988  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 01/05/1988  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110000808074

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**SHWS:**

Program: HW  
Site Code: 57691  
Classification: Significant threat to the public health or environment - action required.

Region: 2  
Acres: 1.583  
HW Code: 231004  
Record Add: 11/18/1999  
Record Upd: 10/21/2013  
Updated By: JHOCONNE

Site Description: Location: The site is located on the west side of Fifth Avenue between 141st Street and 142nd Street in the borough of Manhattan, City and State of New York. Site Features: The site is approximately 1.58 acres, and is nearly entirely occupied by a building. The building is comprised of three connected sections: a two-story section along Fifth Avenue, a three-story section in the center, and a one-story section to the west. See Figure 1 for the site location and Figure 2 for the site plan. Surrounding the site are high-rise residential buildings to the west, south, and southeast of the site. The Harlem River Drive is to the east/northeast, and a National Guard Armory occupies the block immediately to the north. Current Zoning/Use: The site is owned by 2350 Fifth Avenue Corporation and is currently occupied by a self storage facility and art studio space. It is zoned for light manufacturing (M1-1). The Harlem River is located approximately 200 to 300 feet east of the site. Historical Use: Based on historical Sanborn fire insurance maps, the site and the surrounding area were in the process of being filled in between 1860 and 1893, and as of 1909 it was mostly vacant or occupied by a contractors yard. The existing building was originally constructed as a Borden Company ice cream factory: the three-story section in 1923; the two-story section in 1932; and the one-story section in 1950. The



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

floor slab in the one-story (western) section included layers of insulating materials for refrigeration. The area surrounding the site was mostly occupied by garages, auto repair shops, and light manufacturing in the 1930s through the 1950s, with the exception of the block directly north of the site, where the Fifth Avenue Armory was constructed between 1921 and 1933. The residential development, which occupies the area to the south and west of the site, was constructed between 1957 and 1959. From 1970 to 1994 the site was occupied by an industrial laundry and dry cleaning operation which utilized tetrachloroethylene (PCE or perc) as a cleaning solvent. The dry cleaning operation utilized both first-generation and second-generation dry-cleaning machines. The majority of PCE released was associated with the first generation machine use, which involved more handling of PCE than the later machines. The dry cleaning facility operated as registered hazardous waste handler with U.S. Environmental Protection Agency (EPA) ID number NYD071026173. Between 1995 and 1996, most of the ground floor of the building, with the exception of the far western portion, was renovated for use as a New York City public school. The central and eastern portions of the building were occupied by P.S. 141 for a period in the fall of 1997, and were later used by a church for services, offices, and classes. The church vacated the building in December 2004. The remainder of the central and western portion of the building was renovated in 2001 for use as a self storage facility, and in 2006 the self storage facility expanded into the former school portion of the building. Currently the site is use for self storage facility and for art studio space. Site Geology and Hydrogeology: Groundwater in the vicinity of the site is divided into two apparently semi-confined aquifers. The presence of a clay layer acts as an aquitard/aquiclude separating the aquifer into a shallow aquifer above the clay and deeper aquifer below the clay. The groundwater surface in the shallow aquifer is irregular and approximately six to ten feet below grade. Measurements of groundwater elevation indicated varying horizontal flow directions: generally northward towards West 142nd Street and eastward along 142nd Street towards the Harlem River.

Env Problem:

Nature and Extent of Contamination: This section summarizes the assessment of existing and potential future environmental impacts presented by the site. In general, environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water. An evaluation of exposure pathways did not identify any current or potential impacts to ecological resources. Site related contamination is impacting groundwater; however, groundwater sampling has indicated that the groundwater plume is limited in extent and has not traveled a significant distance (and not to the Harlem River). The groundwater in Manhattan is not used as a source of potable water. Protection of the groundwater resource will be addressed in the remedy selection process. In addressing the groundwater resource, the Department will consider the current and reasonably anticipated future use of the groundwater in the area and technical practicability of achieving the SCGs. Surface water resources near the site include the Harlem River, which is located 200 to 300 feet to the east of the site. The Harlem River is a Class I saline waterbody, suitable for secondary contact recreation, fishing, fish propagation and survival, but not suitable for swimming. No current or potential site-related surface water impacts have been identified. Neither the River nor groundwater are used as a source of potable water and no non-potable water supply

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

wells or intakes are known to be located in the immediate area. Significant Threat: The site presents a significant environmental threat due to the releases of contaminants from source areas into groundwater. As a result of identified hazardous waste disposal, the Department listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York in July 1998. A Class 2 site is a site where hazardous waste presents a significant threat to the public health or the environment and action is required. The site remedial program is being performed by 2350 Fifth Avenue Corporation as a Potential Responsible Party (PRP).

Health Problem: People are not drinking the contaminated groundwater because the area is served by a public water supply that is not contaminated by the site. Direct contact with contaminated soil is unlikely since it is located under pavement and the on-site building. Volatile organic compounds in the groundwater and/or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Site-related contaminants have been found in the indoor air of the on-site building at concentrations exceeding NYSDOH's air guidelines. Sampling indicates that this may be a result of soil vapor intrusion and/or the off-gassing and intrusion of contaminants from insulating materials that are present under one part of the building's foundation. To minimize the potential for the inhalation of site-related contaminants, a system that ventilates/removes contaminated air was installed beneath the portion of the on-site building with the insulation. Subsequent testing indicated that this system has been successful at reducing the levels of contaminants in the indoor air and that the installation of a similar system beneath the remaining portion of the building would help to maintain the levels to within background ranges. Environmental sampling indicates soil vapor intrusion is not a concern for off-site buildings.

Dump: False  
Structure: True  
Lagoon: False  
Landfill: False  
Pond: False  
Disp Start: 1970  
Disp Term: 1994  
Lat/Long: 40:49:02:0 / 73:56:07:0  
Dell: False  
Record Add: 11/18/1999 12:00:00 PM  
Record Upd: 9/20/2013 11:18:00 AM  
Updated By: Idennist  
Own Op: Document Repository  
Sub Type: NNN  
Owner Name: Not reported  
Owner Company: New York Public Library  
Owner Address: Countee Cullen Branch  
Owner Addr2: 104 West 136 Street  
Owner City,St,Zip: New York, NY 10030  
Owner Country: United States of America  
Own Op: Owner  
Sub Type: 01  
Owner Name: Joseph Karten  
Owner Company: 2350 Fifth Avenue Corporation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Owner Address: 309 East 94th St.  
Owner Addr2: Ground Floor  
Owner City,St,Zip: New York, NY 10128  
Owner Country: United States of America  
Own Op: Document Repository  
Sub Type: B99  
Owner Name: Not reported  
Owner Company: NYSDEC Region 2 Office  
Owner Address: 47-40 21St Street  
Owner Addr2: Not reported  
Owner City,St,Zip: Long Island City, NY 11101  
Owner Country: United States of America  
HW Code: 231004  
Waste Type: TETRACHLOROETHYLENE (PCE)  
Waste Quantity: UNKNOWN  
Waste Code: Not reported  
HW Code: 231004  
Waste Type: TETRACHLOROETHYLENE (PCE)  
Waste Quantity: UNKNOWN  
Waste Code: Not reported  
HW Code: 231004  
Waste Type: BENZO(A)PYRENE  
Waste Quantity: UNKNOWN  
Waste Code: Not reported  
HW Code: 231004  
Waste Type: CHLORINATED SOLVENTS  
Waste Quantity: UNKNOWN  
Waste Code: Not reported  
Crossref ID: w2-0792-98-07  
Cross Ref Type Code: 23  
Cross Ref Type: Agreement/Consent Order Number  
Record Added Date: 12/1/2010 2:39:00 PM  
Record Updated: 12/1/2010 2:40:00 PM  
Updated By: YYWONG  
Crossref ID: w2-0792-97-05  
Cross Ref Type Code: 23  
Cross Ref Type: Agreement/Consent Order Number  
Record Added Date: 12/1/2010 2:42:00 PM  
Record Updated: 12/1/2010 2:42:00 PM  
Updated By: YYWONG  
Crossref ID: 07/03/1997  
Cross Ref Type Code: 26  
Cross Ref Type: Agreement/Consent Order Date  
Record Added Date: 12/1/2010 2:43:00 PM  
Record Updated: 12/1/2010 2:43:00 PM  
Updated By: YYWONG  
Crossref ID: 03/30/2001  
Cross Ref Type Code: 26  
Cross Ref Type: Agreement/Consent Order Date  
Record Added Date: 12/1/2010 2:42:00 PM  
Record Updated: 12/1/2010 2:42:00 PM  
Updated By: YYWONG

VAPOR REOPENED:

Site Code: 231004  
Facility Status: Complete (Mitigate)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

NY MANIFEST:

EPA ID: NYD071026173  
Country: USA  
Mailing Name: 2350 LAUNDRY & DRY CLNG CORP  
Mailing Contact: 2350 LAUNDRY & DRY CLNG CORP  
Mailing Address: 2350 FIFTH AVENUE  
Mailing Address 2: Not reported  
Mailing City: NEW YORK  
Mailing State: NY  
Mailing Zip: 10037  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 212-862-5517

Document ID: NJA0207515  
Manifest Status: Completed copy  
Trans1 State ID: NJSWAS284  
Trans2 State ID: Not reported  
Generator Ship Date: 860513  
Trans1 Recv Date: 860513  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 860513  
Part A Recv Date: 860604  
Part B Recv Date: 860521  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: NJD002200046  
Trans2 EPA ID: Not reported  
TSD ID: NJD002200046  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 01444  
Units: P - Pounds  
Number of Containers: 019  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00180  
Units: P - Pounds  
Number of Containers: 003  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00110  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 86

Document ID: NJA0620270  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Generator Ship Date: 890519  
Trans1 Recv Date: 890519  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890519  
Part A Recv Date: 890530  
Part B Recv Date: 890525  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 008  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00420  
Units: P - Pounds  
Number of Containers: 006  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0619428  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 890407  
Trans1 Recv Date: 890407  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890407  
Part A Recv Date: 890413  
Part B Recv Date: 890418  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 008  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00420

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Units: P - Pounds  
Number of Containers: 006  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00780  
Units: P - Pounds  
Number of Containers: 004  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA9625529  
Manifest Status: Completed copy  
Trans1 State ID: 000000000  
Trans2 State ID: 000000000  
Generator Ship Date: 890728  
Trans1 Recv Date: 890728  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890728  
Part A Recv Date: 890808  
Part B Recv Date: 890802  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 008  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00420  
Units: P - Pounds  
Number of Containers: 006  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0636262  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Generator Ship Date: 890616  
Trans1 Recv Date: 890616  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890616  
Part A Recv Date: 890623  
Part B Recv Date: 890628  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00585  
Units: P - Pounds  
Number of Containers: 003  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00960  
Units: P - Pounds  
Number of Containers: 012  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA9622999  
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 890629  
Trans1 Recv Date: 890629  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890629  
Part A Recv Date: 890801  
Part B Recv Date: 890707  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 008  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00420  
Units: P - Pounds  
Number of Containers: 006  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00390

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0639972  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 890620  
Trans1 Recv Date: 890620  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890620  
Part A Recv Date: 890801  
Part B Recv Date: 890628  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDf ID: NJD000768093  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00045  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: L Landfill.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0618793  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 890524  
Trans1 Recv Date: 890524  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890525  
Part A Recv Date: 890705  
Part B Recv Date: 890605  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDf ID: NJD000768093  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00045  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA9627675



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC  
Trans1 State ID: 000000000  
Trans2 State ID: 000000000  
Generator Ship Date: 890714  
Trans1 Recv Date: 890714  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890714  
Part A Recv Date: 890817  
Part B Recv Date: 890720  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 008  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0726811  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 890922  
Trans1 Recv Date: 890922  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 890922  
Part A Recv Date: 890929  
Part B Recv Date: 890929  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDF ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 008  
Container Type: CF - Fiber or plastic boxes, cartons  
Handling Method: R Material recovery of more than 75 percent of the total material.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00420  
Units: P - Pounds  
Number of Containers: 006  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0734514  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: 00000000  
Trans2 State ID: 00000000  
Generator Ship Date: 891129  
Trans1 Recv Date: 891129  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 891129  
Part A Recv Date: 900108  
Part B Recv Date: 891205  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDf ID: NJD000768093  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00045  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0709033  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 891117  
Trans1 Recv Date: 891117  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 891117  
Part A Recv Date: 891128  
Part B Recv Date: 891129  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDf ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Quantity: 00210  
Units: P - Pounds  
Number of Containers: 003  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00660  
Units: P - Pounds  
Number of Containers: 011  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0720304  
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 891229  
Trans1 Recv Date: 891229  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 891229  
Part A Recv Date: 900111  
Part B Recv Date: 900220  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDf ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 011  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100  
Year: 89

Document ID: NJA0805673  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 900309  
Trans1 Recv Date: 900309  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 900309  
Part A Recv Date: 900330  
Part B Recv Date: 900403

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00640  
Units: P - Pounds  
Number of Containers: 011  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 90

Document ID: NJA1450309  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 920727  
Trans1 Recv Date: 920727  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 920727  
Part A Recv Date: 920909  
Part B Recv Date: 920805  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 01080  
Units: P - Pounds  
Number of Containers: 017  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

Document ID: NJA1612292  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 921215

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Trans1 Recv Date: 921215  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 921216  
Part A Recv Date: 930106  
Part B Recv Date: 921230  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00045  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 92

Document ID: NJA1432540  
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 921105  
Trans1 Recv Date: 921105  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 921105  
Part A Recv Date: 921201  
Part B Recv Date: 921201  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00045  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 92

Document ID: NJA1436340  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 921022  
Trans1 Recv Date: 921022  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 921022  
Part A Recv Date: 921104  
Part B Recv Date: 921109  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00600  
Units: P - Pounds  
Number of Containers: 010  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

Document ID: NJA1456331  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 920709  
Trans1 Recv Date: 920709  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 920709  
Part A Recv Date: Not reported  
Part B Recv Date: 920717  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSD ID: NJD000768093  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Quantity: 00320  
Units: P - Pounds  
Number of Containers: 006  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

Document ID: NJA1461716  
Manifest Status: Completed copy  
Trans1 State ID: NJDEPS869  
Trans2 State ID: Not reported  
Generator Ship Date: 920827  
Trans1 Recv Date: 920827  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 920827  
Part A Recv Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2350 FIFTH AVENUE CORP (Continued)**

**1000108749**

Part B Recv Date: 920909  
Generator EPA ID: NYD071026173  
Trans1 EPA ID: ILD051060408  
Trans2 EPA ID: Not reported  
TSDf ID: NJD000768093  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00390  
Units: P - Pounds  
Number of Containers: 002  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 00195  
Units: P - Pounds  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Waste Code: Not reported  
Quantity: 01020  
Units: P - Pounds  
Number of Containers: 017  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100  
Year: 92

[Click this hyperlink](#) while viewing on your computer to access  
297 additional NY\_MANIFEST: record(s) in the EDR Site Report.

237  
South  
1/2-1  
0.855 mi.  
4517 ft.

**CON EDISON - EAST 115TH ST. WORKS MGP  
EAST 114TH - EAST 116TH STS.  
NEW YORK, NY 10029**

**EDR MGP 1008407982  
N/A**

**Relative:  
Higher**

Manufactured Gas Plants:  
No additional information available

**Actual:  
9 ft.**

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRONX	1000981510	NYCDOT - 132ND STREET GRIT CHAMBER	132ND ST - GRIT CHAMBER BRONX	10454	RCRA NonGen / NLR, NY MANIFEST
BRONX	S108763840	DRUM RUN	RTE 95 RAMP TO 87		NY Spills
BRONX	S116156237	QUEENS BOUND AT THE TOLL PLAZA AT	CROSS BRONX EXPSY OR ROUTE 95		NY Spills
BRONX	S111158042	CONSOLIDATED EDISON	EDWARD L GRANT HWY &	10451	NY MANIFEST
BRONX	1014957434	CON EDISON TRANSFORMER MANHOLE 440	EDWARD L GRANT HWY &	10451	RCRA NonGen / NLR
BRONX	1010488291	NYSDOT BIN 1066220	EDWARD L GRANT HWY CBG		FINDS, NY MANIFEST
BRONX	S110540770	TRAFFIC ACCIDENT	GRANT HWY AND W 170TH ST		NY Spills
BRONX	1000694477	SHELL OIL-ANGAMA AUTO CTR INC	1263 E L GRANT HWY	10452	RCRA NonGen / NLR, FINDS, NY MANIFEST, US AIRS
BRONX	S109414309	MILE MARKER IS POSSIBLY 2.6 THE CA	87N OFF ROUTE 100 NORTH EXIT.		NY Spills
BRONX	S107488594	IFO TASK FORCE	STATE 87 EXIT - I 95 HWY		NY Spills
BROOKLYN	1000323225	AVENUE V PUMP STATION	84TH AVE	11223	RCRA NonGen / NLR, NY MANIFEST
NEW YORK	1004755814	NYCDOT BRIDGE BIN 2246670	134TH ST OVER RIVERSIDE DR	10027	RCRA NonGen / NLR, NY MANIFEST
NEW YORK	1012187132	NYSDOT BIN 1077030	RTE 907P OVER IRT TRACKS	10039	RCRA-LQG
NEW YORK	1014399397	NYSDOT BIN 222933B	RTE 907V WESTERN SIDE OVER	10027	RCRA-LQG
NEW YORK	1014399396	NYSDOT BIN 222933A	RTE 907V EASTERN SIDE OVER	10027	RCRA-LQG
NEW YORK	1012187135	NYSDOT BIN 2229339	RTE 907V OVER ST CLAIR PLACE	10027	RCRA-LQG
NEW YORK	1000265902	PARK AVENUE VIADUCT 98TH - 138TH S	FROM 98TH-138TH ST PARK AVE	10035	RCRA NonGen / NLR, NY MANIFEST
NEW YORK	1001493536	NYCDOT - BIN 2233050 HARLEM RIVER	HARLEM RIVER DR NB RAMP	10035	RCRA-SQG, NY MANIFEST
NEW YORK	1005444312	HUDSON RIVER PARK TRUST	JANE ST & RTE 9A PIER 51	10014	RCRA NonGen / NLR, NY MANIFEST
NEW YORK	1000872823	NYCDOT - MADISON AVENUE BRIDGE #22	MADISON AVE BRG - HARLEM RIVER	10030	RCRA-SQG, NJ MANIFEST, NY MANIFEST



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 04/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 04/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 04/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 04/11/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/11/2014  
Date Data Arrived at EDR: 03/13/2014  
Date Made Active in Reports: 04/09/2014  
Number of Days to Update: 27

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2014  
Date Data Arrived at EDR: 03/13/2014  
Date Made Active in Reports: 04/09/2014  
Number of Days to Update: 27

Source: Environmental Protection Agency  
Telephone: (212) 637-3660  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014  
Date Data Arrived at EDR: 03/13/2014  
Date Made Active in Reports: 04/09/2014  
Number of Days to Update: 27

Source: Environmental Protection Agency  
Telephone: (212) 637-3660  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2014  
Date Data Arrived at EDR: 03/13/2014  
Date Made Active in Reports: 04/09/2014  
Number of Days to Update: 27

Source: Environmental Protection Agency  
Telephone: (212) 637-3660  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014  
Date Data Arrived at EDR: 03/13/2014  
Date Made Active in Reports: 04/09/2014  
Number of Days to Update: 27

Source: Environmental Protection Agency  
Telephone: (212) 637-3660  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2014	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 03/10/2014
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2014	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 03/10/2014
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/20/2013	Source: Department of the Navy
Date Data Arrived at EDR: 11/21/2013	Telephone: 843-820-7326
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 02/14/2014
Number of Days to Update: 95	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Varies

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/01/2013	Telephone: 202-267-2180
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 04/04/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

### SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9622
Date Made Active in Reports: 03/31/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9814
Date Made Active in Reports: 03/31/2014	Last EDR Contact: 02/19/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Varies

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/12/2013	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/07/2014	Telephone: 518-457-2051
Date Made Active in Reports: 02/11/2014	Last EDR Contact: 04/07/2014
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: Semi-Annually

## **State and tribal leaking storage tank lists**

### LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9549
Date Made Active in Reports: 04/02/2014	Last EDR Contact: 02/19/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Varies

### HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 07/08/2005	Telephone: 518-402-9549
Date Made Active in Reports: 07/14/2005	Last EDR Contact: 07/07/2005
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/21/2013	Source: EPA Region 4
Date Data Arrived at EDR: 11/26/2013	Telephone: 404-562-8677
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013	Source: EPA Region 10
Date Data Arrived at EDR: 11/07/2013	Telephone: 206-553-2857
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 01/27/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013	Source: EPA Region 7
Date Data Arrived at EDR: 08/27/2013	Telephone: 913-551-7003
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 02/21/2014
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013	Source: EPA Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/30/2014
Number of Days to Update: 184	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land  
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/13/2014	Source: EPA, Region 5
Date Data Arrived at EDR: 02/14/2014	Telephone: 312-886-7439
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal registered storage tank lists***

### **TANKS: Storage Tank Facility Listing**

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 12/30/2013	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/02/2014	Telephone: 518-402-9543
Date Made Active in Reports: 02/11/2014	Last EDR Contact: 04/02/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Quarterly

### **UST: Petroleum Bulk Storage (PBS) Database**

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 12/30/2013	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/02/2014	Telephone: 518-402-9549
Date Made Active in Reports: 02/11/2014	Last EDR Contact: 04/02/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: No Update Planned

### **CBS UST: Chemical Bulk Storage Database**

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002	Source: NYSDEC
Date Data Arrived at EDR: 02/20/2002	Telephone: 518-402-9549
Date Made Active in Reports: 03/22/2002	Last EDR Contact: 10/24/2005
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/23/2006
	Data Release Frequency: No Update Planned

### **MOSF UST: Major Oil Storage Facilities Database**

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002	Source: NYSDEC
Date Data Arrived at EDR: 02/20/2002	Telephone: 518-402-9549
Date Made Active in Reports: 03/22/2002	Last EDR Contact: 07/25/2005
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/24/2005
	Data Release Frequency: Varies

### **AST: Petroleum Bulk Storage**

Registered Aboveground Storage Tanks.

Date of Government Version: 12/30/2013	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/02/2014	Telephone: 518-402-9549
Date Made Active in Reports: 02/11/2014	Last EDR Contact: 04/02/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: No Update Planned

### **CBS AST: Chemical Bulk Storage Database**

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002	Source: NYSDEC
Date Data Arrived at EDR: 02/20/2002	Telephone: 518-402-9549
Date Made Active in Reports: 03/22/2002	Last EDR Contact: 07/25/2005
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/24/2005
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 02/20/2002  
Date Made Active in Reports: 03/22/2002  
Number of Days to Update: 30

Source: NYSDEC  
Telephone: 518-402-9549  
Last EDR Contact: 07/25/2005  
Next Scheduled EDR Contact: 10/24/2005  
Data Release Frequency: No Update Planned

## CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 12/30/2013  
Date Data Arrived at EDR: 01/02/2014  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 40

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 04/02/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Quarterly

## MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 12/30/2013  
Date Data Arrived at EDR: 01/02/2014  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 40

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 04/02/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Quarterly

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013  
Date Data Arrived at EDR: 05/01/2013  
Date Made Active in Reports: 01/27/2014  
Number of Days to Update: 271

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 01/30/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/21/2013  
Date Data Arrived at EDR: 11/26/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 90

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 01/27/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Semi-Annually

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/13/2014  
Date Data Arrived at EDR: 02/14/2014  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 10

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 01/27/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/29/2014	Source: EPA Region 6
Date Data Arrived at EDR: 01/29/2014	Telephone: 214-665-7591
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/28/2013	Telephone: 913-551-7003
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013	Source: EPA Region 8
Date Data Arrived at EDR: 08/01/2013	Telephone: 303-312-6137
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 92	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013	Source: EPA Region 9
Date Data Arrived at EDR: 07/30/2013	Telephone: 415-972-3368
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 129	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013	Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013	Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/13/2014
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9553
Date Made Active in Reports: 03/31/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Quarterly

## INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9553
Date Made Active in Reports: 03/31/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Quarterly

## RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010	Source: NYC Department of City Planning
Date Data Arrived at EDR: 12/23/2010	Telephone: 212-720-3401
Date Made Active in Reports: 02/11/2011	Last EDR Contact: 03/24/2014
Number of Days to Update: 50	Next Scheduled EDR Contact: 07/07/2014
	Data Release Frequency: No Update Planned

## **State and tribal voluntary cleanup sites**

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9711
Date Made Active in Reports: 03/31/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Semi-Annually

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013	Source: EPA, Region 1
Date Data Arrived at EDR: 10/01/2013	Telephone: 617-918-1102
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 04/01/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **State and tribal Brownfields sites**

### ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a \$200 million Environmental Restoration or Brownfields Fund as part of the \$1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9622
Date Made Active in Reports: 03/31/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Quarterly

### BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9764
Date Made Active in Reports: 03/31/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Semi-Annually

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/20/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/20/2014	Telephone: 202-566-2777
Date Made Active in Reports: 04/09/2014	Last EDR Contact: 03/20/2014
Number of Days to Update: 20	Next Scheduled EDR Contact: 07/07/2014
	Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/27/2014
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: No Update Planned

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

**SWRCY: Registered Recycling Facility List**  
A listing of recycling facilities.

Date of Government Version: 12/12/2013  
Date Data Arrived at EDR: 01/07/2014  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 35

Source: Department of Environmental Conservation  
Telephone: 518-402-8705  
Last EDR Contact: 04/07/2014  
Next Scheduled EDR Contact: 07/21/2014  
Data Release Frequency: Semi-Annually

**SWTIRE: Registered Waste Tire Storage & Facility List**  
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006  
Date Data Arrived at EDR: 11/15/2006  
Date Made Active in Reports: 11/30/2006  
Number of Days to Update: 15

Source: Department of Environmental Conservation  
Telephone: 518-402-8694  
Last EDR Contact: 01/23/2014  
Next Scheduled EDR Contact: 05/05/2014  
Data Release Frequency: Annually

**INDIAN ODI: Report on the Status of Open Dumps on Indian Lands**  
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 11/04/2013  
Next Scheduled EDR Contact: 02/17/2014  
Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

**US CDL: Clandestine Drug Labs**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/04/2013  
Date Data Arrived at EDR: 12/10/2013  
Date Made Active in Reports: 02/13/2014  
Number of Days to Update: 65

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/04/2014  
Next Scheduled EDR Contact: 06/16/2014  
Data Release Frequency: Quarterly

**DEL SHWS: Delisted Registry Sites**

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 02/17/2014  
Date Data Arrived at EDR: 02/19/2014  
Date Made Active in Reports: 03/31/2014  
Number of Days to Update: 40

Source: Department of Environmental Conservation  
Telephone: 518-402-9622  
Last EDR Contact: 03/27/2014  
Next Scheduled EDR Contact: 06/02/2014  
Data Release Frequency: Annually

**US HIST CDL: National Clandestine Laboratory Register**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007  
Date Data Arrived at EDR: 11/19/2008  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 131

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/04/2014  
Next Scheduled EDR Contact: 06/16/2014  
Data Release Frequency: No Update Planned

## **Local Lists of Registered Storage Tanks**

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 06/02/2006  
Date Made Active in Reports: 07/20/2006  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 10/23/2006  
Next Scheduled EDR Contact: 01/22/2007  
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 06/02/2006  
Date Made Active in Reports: 07/20/2006  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 10/23/2006  
Next Scheduled EDR Contact: 01/22/2007  
Data Release Frequency: No Update Planned

## **Local Land Records**

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013  
Date Data Arrived at EDR: 04/25/2013  
Date Made Active in Reports: 05/10/2013  
Number of Days to Update: 15

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 01/27/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Varies

LIENS: Spill Liens Information

Lien information from the Oil Spill Fund.

Date of Government Version: 02/11/2014  
Date Data Arrived at EDR: 02/13/2014  
Date Made Active in Reports: 03/31/2014  
Number of Days to Update: 46

Source: Office of the State Comptroller  
Telephone: 518-474-9034  
Last EDR Contact: 02/10/2014  
Next Scheduled EDR Contact: 05/26/2014  
Data Release Frequency: Varies

## **Records of Emergency Release Reports**

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 01/03/2014  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 52

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 04/01/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 02/17/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/19/2014	Telephone: 518-402-9549
Date Made Active in Reports: 04/02/2014	Last EDR Contact: 02/19/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Varies

## HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 07/08/2005	Telephone: 518-402-9549
Date Made Active in Reports: 07/14/2005	Last EDR Contact: 07/07/2005
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/12/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/07/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 63	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

### RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/13/2014	Telephone: (212) 637-3660
Date Made Active in Reports: 04/09/2014	Last EDR Contact: 03/13/2014
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 02/06/2014  
Next Scheduled EDR Contact: 05/19/2014  
Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 01/15/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Semi-Annually

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 02/26/2013  
Date Made Active in Reports: 03/13/2013  
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/10/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 01/24/2014  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 03/27/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Varies

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/11/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Annually

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 02/25/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013  
Date Data Arrived at EDR: 09/05/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 03/05/2014  
Next Scheduled EDR Contact: 06/16/2014  
Data Release Frequency: Semi-Annually

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/31/2013  
Date Made Active in Reports: 09/13/2013  
Number of Days to Update: 44

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 02/26/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 09/29/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 64

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 03/28/2014  
Next Scheduled EDR Contact: 07/07/2014  
Data Release Frequency: Every 4 Years

## FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 02/24/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Quarterly

## FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 02/24/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 01/28/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011  
Date Data Arrived at EDR: 11/10/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 61

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 10/09/2014  
Next Scheduled EDR Contact: 07/21/2014  
Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013  
Date Data Arrived at EDR: 07/17/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 107

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 01/28/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Annually

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013  
Date Data Arrived at EDR: 08/02/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 91

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 03/10/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/10/2014	Telephone: 202-343-9775
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 04/09/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013	Source: EPA
Date Data Arrived at EDR: 02/27/2014	Telephone: (212) 637-3000
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 03/14/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/12/2013	Telephone: 202-564-8600
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 02/26/2013  
Date Made Active in Reports: 04/19/2013  
Number of Days to Update: 52

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 02/28/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Biennially

## HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003  
Date Data Arrived at EDR: 10/20/2006  
Date Made Active in Reports: 11/30/2006  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-9564  
Last EDR Contact: 05/26/2009  
Next Scheduled EDR Contact: 08/24/2009  
Data Release Frequency: No Update Planned

## UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 12/09/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 61

Source: Department of Environmental Conservation  
Telephone: 518-402-8056  
Last EDR Contact: 03/12/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Quarterly

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/07/2014  
Date Made Active in Reports: 03/31/2014  
Number of Days to Update: 52

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 03/12/2014  
Next Scheduled EDR Contact: 05/19/2014  
Data Release Frequency: Annually

## DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 01/21/2014  
Date Data Arrived at EDR: 01/22/2014  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 20

Source: Department of Environmental Conservation  
Telephone: 518-402-8403  
Last EDR Contact: 03/17/2014  
Next Scheduled EDR Contact: 06/30/2014  
Data Release Frequency: Varies

## SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 02/25/2014  
Date Data Arrived at EDR: 02/27/2014  
Date Made Active in Reports: 04/04/2014  
Number of Days to Update: 36

Source: Department of Environmental Conservation  
Telephone: 518-402-8233  
Last EDR Contact: 02/10/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 11/01/2013  
Date Made Active in Reports: 01/09/2014  
Number of Days to Update: 69

Source: Department of Environmental Conservation  
Telephone: 518-402-8452  
Last EDR Contact: 01/27/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Annually

## E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 12/10/2013  
Date Data Arrived at EDR: 12/26/2013  
Date Made Active in Reports: 01/31/2014  
Number of Days to Update: 36

Source: New York City Department of City Planning  
Telephone: 718-595-6658  
Last EDR Contact: 03/24/2014  
Next Scheduled EDR Contact: 07/07/2014  
Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 01/15/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 01/20/2014  
Next Scheduled EDR Contact: 05/05/2014  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/07/2014  
Date Data Arrived at EDR: 01/07/2014  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 35

Source: Department of Environmental Conservation  
Telephone: 518-402-8660  
Last EDR Contact: 04/07/2014  
Next Scheduled EDR Contact: 07/21/2014  
Data Release Frequency: Quarterly

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013  
Date Data Arrived at EDR: 02/14/2013  
Date Made Active in Reports: 02/27/2013  
Number of Days to Update: 13

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 04/04/2014  
Next Scheduled EDR Contact: 07/21/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 02/14/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/26/2014
	Data Release Frequency: Varies

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013	Source: EPA
Date Data Arrived at EDR: 07/03/2013	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 04/04/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Quarterly

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2014
Number of Days to Update: 339	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: N/A

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013	Source: EPA
Date Data Arrived at EDR: 11/06/2013	Telephone: 202-564-5962
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 03/31/2014
Number of Days to Update: 30	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/23/2013  
Date Data Arrived at EDR: 11/06/2013  
Date Made Active in Reports: 12/06/2013  
Number of Days to Update: 30

Source: EPA  
Telephone: 202-564-5962  
Last EDR Contact: 03/31/2014  
Next Scheduled EDR Contact: 07/14/2014  
Data Release Frequency: Annually

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/25/2014  
Date Data Arrived at EDR: 02/27/2014  
Date Made Active in Reports: 04/09/2014  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 02/14/2014  
Next Scheduled EDR Contact: 06/02/2014  
Data Release Frequency: Quarterly

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/01/2013  
Date Data Arrived at EDR: 12/05/2013  
Date Made Active in Reports: 02/17/2014  
Number of Days to Update: 74

Source: Department of Environmental Conservation  
Telephone: 518-402-8712  
Last EDR Contact: 04/07/2014  
Next Scheduled EDR Contact: 07/21/2014  
Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 01/30/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010  
Date Data Arrived at EDR: 01/03/2011  
Date Made Active in Reports: 03/21/2011  
Number of Days to Update: 77

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 03/11/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Varies

## COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 01/07/2014  
Date Data Arrived at EDR: 01/09/2014  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 33

Source: Department of Environmental Conservation  
Telephone: 518-402-8660  
Last EDR Contact: 04/07/2014  
Next Scheduled EDR Contact: 07/21/2014  
Data Release Frequency: Varies

## COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 01/13/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2013	Telephone: 617-520-3000
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 02/10/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 05/26/2014
	Data Release Frequency: Quarterly

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: N/A  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: N/A  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **EDR RECOVERED GOVERNMENT ARCHIVES**

### ***Exclusive Recovered Govt. Archives***

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/10/2014  
Number of Days to Update: 193

Source: Department of Environmental Conservation  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: Department of Environmental Conservation  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **COUNTY RECORDS**

CORTLAND COUNTY:

Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 02/24/2014  
Date Data Arrived at EDR: 02/25/2014  
Date Made Active in Reports: 04/01/2014  
Number of Days to Update: 35

Source: Cortland County Health Department  
Telephone: 607-753-5035  
Last EDR Contact: 02/05/2014  
Next Scheduled EDR Contact: 05/19/2014  
Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 02/24/2014	Source: Cortland County Health Department
Date Data Arrived at EDR: 02/25/2014	Telephone: 607-753-5035
Date Made Active in Reports: 04/01/2014	Last EDR Contact: 02/05/2014
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/19/2014
	Data Release Frequency: Quarterly

## NASSAU COUNTY:

### Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013	Source: Nassau County Health Department
Date Data Arrived at EDR: 11/22/2013	Telephone: 516-571-3314
Date Made Active in Reports: 02/11/2014	Last EDR Contact: 04/07/2014
Number of Days to Update: 81	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: No Update Planned

### Storage Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011	Source: Nassau County Office of the Fire Marshal
Date Data Arrived at EDR: 02/23/2011	Telephone: 516-572-1000
Date Made Active in Reports: 03/29/2011	Last EDR Contact: 11/04/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

### Registered Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013	Source: Nassau County Health Department
Date Data Arrived at EDR: 11/22/2013	Telephone: 516-571-3314
Date Made Active in Reports: 02/11/2014	Last EDR Contact: 04/07/2014
Number of Days to Update: 81	Next Scheduled EDR Contact: 07/21/2014
	Data Release Frequency: No Update Planned

### Storage Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011	Source: Nassau County Office of the Fire Marshal
Date Data Arrived at EDR: 02/23/2011	Telephone: 516-572-1000
Date Made Active in Reports: 03/29/2011	Last EDR Contact: 11/04/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

## ROCKLAND COUNTY:

### Petroleum Bulk Storage Database

A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 12/17/2013	Source: Rockland County Health Department
Date Data Arrived at EDR: 12/18/2013	Telephone: 914-364-2605
Date Made Active in Reports: 02/11/2014	Last EDR Contact: 03/10/2014
Number of Days to Update: 55	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Petroleum Bulk Storage Database

A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 12/17/2013  
Date Data Arrived at EDR: 12/18/2013  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 55

Source: Rockland County Health Department  
Telephone: 914-364-2605  
Last EDR Contact: 03/10/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Quarterly

## SUFFOLK COUNTY:

### Storage Tank Database

A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 01/30/2014  
Date Data Arrived at EDR: 02/28/2014  
Date Made Active in Reports: 04/03/2014  
Number of Days to Update: 34

Source: Suffolk County Department of Health Services  
Telephone: 631-854-2521  
Last EDR Contact: 02/18/2014  
Next Scheduled EDR Contact: 05/19/2014  
Data Release Frequency: No Update Planned

### Storage Tank Database

A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 01/30/2014  
Date Data Arrived at EDR: 02/28/2014  
Date Made Active in Reports: 04/03/2014  
Number of Days to Update: 34

Source: Suffolk County Department of Health Services  
Telephone: 631-854-2521  
Last EDR Contact: 02/18/2014  
Next Scheduled EDR Contact: 05/19/2014  
Data Release Frequency: No Update Planned

## WESTCHESTER COUNTY:

### Listing of Storage Tanks

A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 12/18/2013  
Date Data Arrived at EDR: 12/19/2013  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 54

Source: Westchester County Department of Health  
Telephone: 914-813-5161  
Last EDR Contact: 11/04/2013  
Next Scheduled EDR Contact: 02/17/2014  
Data Release Frequency: Varies

### Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 12/18/2013  
Date Data Arrived at EDR: 12/19/2013  
Date Made Active in Reports: 02/11/2014  
Number of Days to Update: 54

Source: Westchester County Department of Health  
Telephone: 914-813-5161  
Last EDR Contact: 11/04/2013  
Next Scheduled EDR Contact: 02/17/2014  
Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 02/21/2014  
Next Scheduled EDR Contact: 06/02/2014  
Data Release Frequency: Annually

## NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 08/28/2012  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 01/17/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Annually

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 07/24/2013  
Date Made Active in Reports: 08/19/2013  
Number of Days to Update: 26

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 01/20/2014  
Next Scheduled EDR Contact: 05/05/2014  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 06/21/2013  
Date Made Active in Reports: 08/05/2013  
Number of Days to Update: 45

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/24/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Annually

## VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/30/2013  
Date Data Arrived at EDR: 02/11/2014  
Date Made Active in Reports: 03/11/2014  
Number of Days to Update: 28

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 01/20/2014  
Next Scheduled EDR Contact: 05/05/2014  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 08/09/2013  
Date Made Active in Reports: 09/27/2013  
Number of Days to Update: 49

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/17/2014  
Next Scheduled EDR Contact: 06/30/2014  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247  
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Day Care Providers

Source: Department of Health

Telephone: 212-676-2444

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

## State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

## Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## **STREET AND ADDRESS INFORMATION**

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

101 LINCOLN AVENUE  
101 LINCOLN AVENUE  
BRONX, NY 10454

### **TARGET PROPERTY COORDINATES**

Latitude (North):	40.8076 - 40° 48' 27.36"
Longitude (West):	73.9308 - 73° 55' 50.88"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	590185.5
UTM Y (Meters):	4517737.5
Elevation:	5 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	40073-G8 CENTRAL PARK, NY NJ
Most Recent Revision:	1995

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

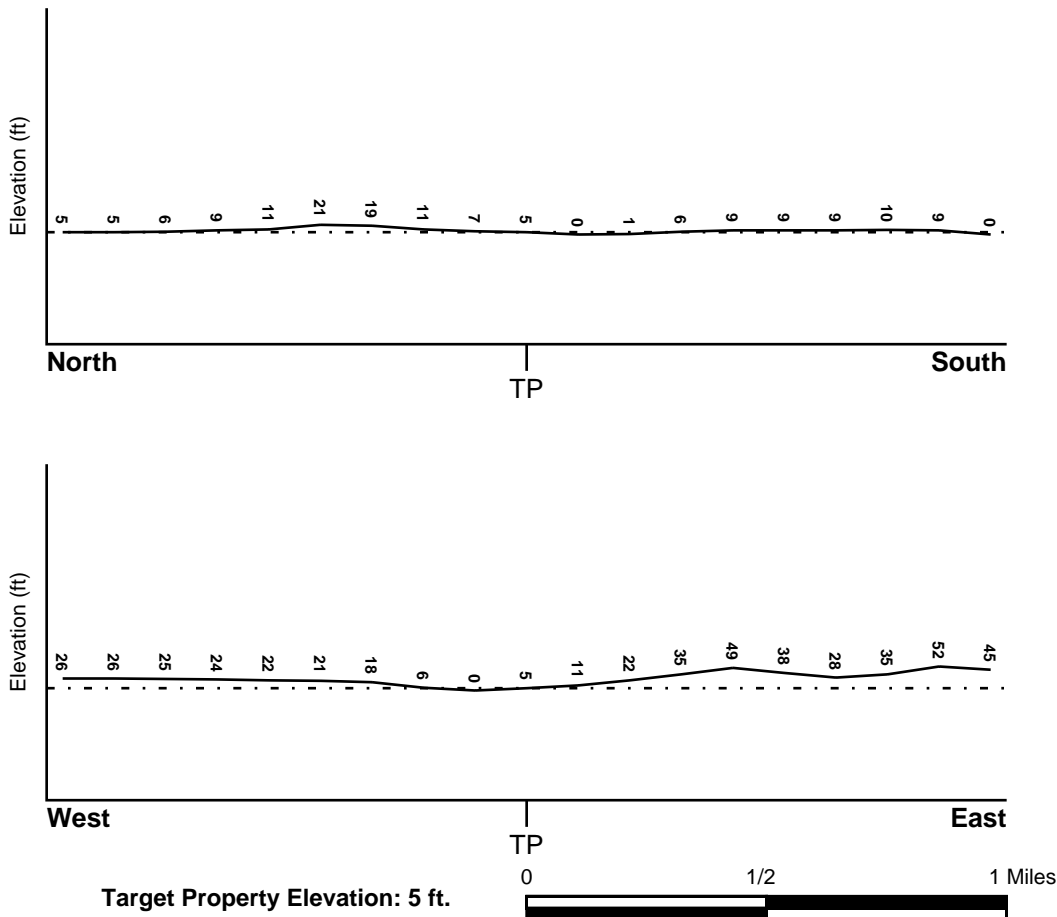
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

Target Property County  
BRONX, NY

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 360497 - FEMA DFIRM Flood data

Additional Panels in search area:  
3604970020B - FEMA Q3 Flood data  
3604970021B - FEMA Q3 Flood data  
3604970026B - FEMA Q3 Flood data  
3604970027B - FEMA Q3 Flood data

## **NATIONAL WETLAND INVENTORY**

NWI Quad at Target Property  
CENTRAL PARK

NWI Electronic  
Data Coverage  
YES - refer to the Overview Map and Detail Map

## **HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### ***Site-Specific Hydrogeological Data\*:***

Search Radius: 1.25 miles  
Status: Not found

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

Era: Paleozoic  
System: Ordovician  
Series: Middle Ordovician (Mohawkian)  
Code: O2 (*decoded above as Era, System & Series*)

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

## OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam  
loamy sand  
sandy loam  
fine sandy loam

Surficial Soil Types: silt loam  
loamy sand  
sandy loam  
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock  
very gravelly - loamy sand  
stratified  
sandy loam

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000833387	0 - 1/8 Mile ESE
2	USGS40000833473	1/8 - 1/4 Mile North
3	USGS40000833375	1/8 - 1/4 Mile WSW
4	USGS40000833522	1/4 - 1/2 Mile NNE
5	USGS40000833342	1/4 - 1/2 Mile SW
6	USGS40000833253	1/2 - 1 Mile ESE
A7	USGS40000833388	1/2 - 1 Mile West
A8	USGS40000833389	1/2 - 1 Mile West
A9	USGS40000833390	1/2 - 1 Mile West
10	USGS40000833656	1/2 - 1 Mile NE

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

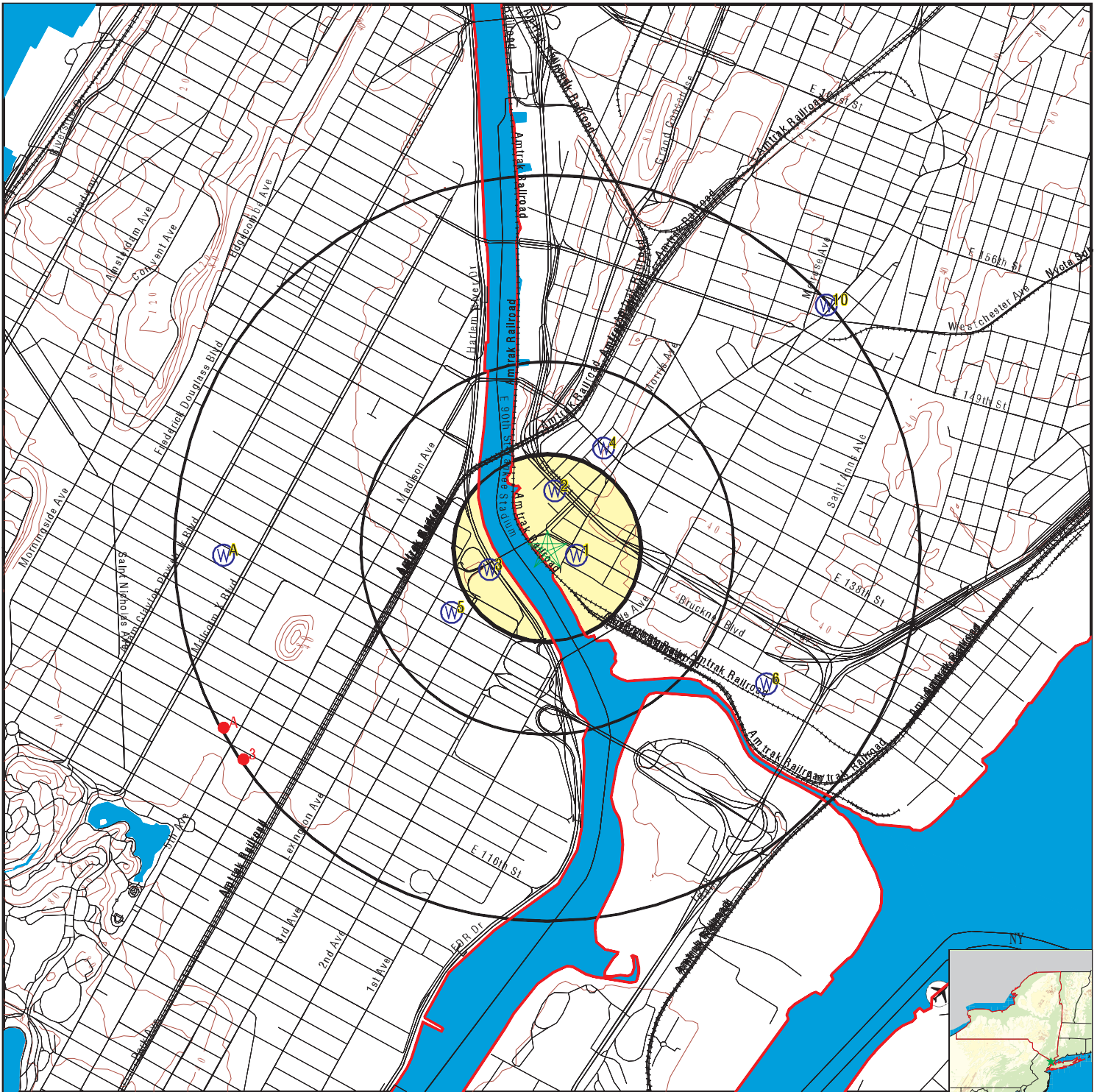
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## OTHER STATE DATABASE INFORMATION

## STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	NYOG70000000192	1/2 - 1 Mile WSW
A2	NYOG70000000195	1/2 - 1 Mile WSW
3	NYOG70000000181	1/2 - 1 Mile SW
A4	NYOG70000000189	1/2 - 1 Mile WSW
A5	NYOG70000000198	1/2 - 1 Mile WSW
A6	NYOG70000000191	1/2 - 1 Mile WSW
A7	NYOG70000000186	1/2 - 1 Mile WSW

# PHYSICAL SETTING SOURCE MAP - 3910510.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 101 Lincoln Avenue  
 ADDRESS: 101 Lincoln Avenue  
 Bronx NY 10454  
 LAT/LONG: 40.8076 / 73.9308

CLIENT: Langan Environmental Services  
 CONTACT: David Granucci  
 INQUIRY #: 3910510.2s  
 DATE: April 14, 2014 6:22 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**  
**ESE**  
**0 - 1/8 Mile**  
**Higher**      **FED USGS**      **USGS40000833387**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404826073554701		
Monloc name:	B 6		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8073231
Longitude:	-73.9293038	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	36
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**2**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**      **FED USGS**      **USGS40000833473**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404835073555101		
Monloc name:	B 65		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.809823
Longitude:	-73.930415	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	49
Construction date:	Not Reported	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1951-10-22	8	

**3**  
**WSW**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS USGS40000833375**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404824073560301		
Monloc name:	NY 150		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8067675
Longitude:	-73.9337484	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	6
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	106
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**4**  
**NNE**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS USGS40000833522**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404841073554201		
Monloc name:	B 49		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8114897
Longitude:	-73.9279149	Sourcemap scale:	24000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	225
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**5  
SW  
1/4 - 1/2 Mile  
Higher**

**FED USGS      USGS40000833342**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404818073561001		
Monloc name:	NY 82		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8051009
Longitude:	-73.9356929	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**6  
ESE  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS40000833253**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404808073551201		
Monloc name:	B 36		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8023232
Longitude:	-73.9195814	Sourcemap scale:	24000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	452
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A7**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000833388**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404826073565201		
Monloc name:	NY 85		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.807323
Longitude:	-73.9473599	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	150
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A8**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000833389**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404826073565202		
Monloc name:	NY 86		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.807323
Longitude:	-73.9473599	Sourcemap scale:	24000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A9**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000833390**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404826073565203		
Monloc name:	NY 87		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.807323
Longitude:	-73.9473599	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**10**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000833656**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404901073550101		
Monloc name:	B 54		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8170452
Longitude:	-73.9165257	Sourcemap scale:	24000



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	20
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	133
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**A1**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS NYOG70000000192**

Api wellno:	31061236470000	Cnty:	New York
Hole:	23647	Sidetck:	0
Completion:	0		
Well nm:	Kalahari K-20		
Coname:	FSLM Associates LLC		
Opno:	2260		
Dt approv:	24-JUN-05	Dt spud:	16-FEB-06
Dt comp:	12-APR-06	Well typ:	Confidential
Dtd:	0		
WI status:	Confidential	Town:	Manhattan
Field:	Confidential	Prodform:	Confidential
Xloc:	-73.94719		
Yloc:	40.80064		
Confid:	We have confidential information for 6 months.		
Wellst:	CON		
Quad:	Central Park	Quadsec:	E
Deepestfor:	Confidential	Elevation:	20
Dt mod:	08-SEP-08	Site id:	NYOG70000000192

**A2**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS NYOG70000000195**

Api wellno:	31061236440000	Cnty:	New York
Hole:	23644	Sidetck:	0
Completion:	0		
Well nm:	Kalahari K-17		
Coname:	FSLM Associates LLC		
Opno:	2260		
Dt approv:	24-JUN-05	Dt spud:	16-FEB-06
Dt comp:	12-APR-06	Well typ:	Confidential
Dtd:	0		
WI status:	Confidential	Town:	Manhattan
Field:	Confidential	Prodform:	Confidential
Xloc:	-73.94734		
Yloc:	40.8007		
Confid:	We have confidential information for 6 months.		
Wellst:	CON		
Quad:	Central Park	Quadsec:	E
Deepestfor:	Confidential	Elevation:	20
Dt mod:	08-SEP-08	Site id:	NYOG70000000195

**3**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS NYOG70000000181**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	31061210710000	Cnty:	New York
Hole:	21071	Sidetrck:	0
Completion:	0		
Well nm:	P-1		
Coname:	The 1400 5th LLC		
Opno:	2184		
Dt approv:	17-MAR-04	Dt spud:	22-JUN-04
Dt comp:	06-AUG-04	Well typ:	Geothermal
Dtd:	1550		
WI status:	Active	Town:	Manhattan
Field:	Not Applicable	Prodform:	Not Applicable
Xloc:	-73.94634		
Yloc:	40.79939		
Confid:	Released		
Wellst:	Other Well		
Quad:	Central Park	Quadsec:	E
Deepestfor:	Fordham Gneiss	Elevation:	20
Dt mod:	08-JUL-09	Site id:	NYOG70000000181

**A4  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      NYOG70000000189**

Api wellno:	31061236450000	Cnty:	New York
Hole:	23645	Sidetrck:	0
Completion:	0		
Well nm:	Kalahari K-18		
Coname:	FSLM Associates LLC		
Opno:	2260		
Dt approv:	24-JUN-05	Dt spud:	16-FEB-06
Dt comp:	12-APR-06	Well typ:	Confidential
Dtd:	0		
WI status:	Confidential	Town:	Manhattan
Field:	Confidential	Prodform:	Confidential
Xloc:	-73.94732		
Yloc:	40.80056		
Confid:	We have confidential information for 6 months.		
Wellst:	CON		
Quad:	Central Park	Quadsec:	E
Deepestfor:	Confidential	Elevation:	21
Dt mod:	08-SEP-08	Site id:	NYOG70000000189

**A5  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      NYOG70000000198**

Api wellno:	31061236410000	Cnty:	New York
Hole:	23641	Sidetrck:	0
Completion:	0		
Well nm:	Kalahari K-14		
Coname:	FSLM Associates LLC		
Opno:	2260		
Dt approv:	24-JUN-05	Dt spud:	16-FEB-06
Dt comp:	12-APR-06	Well typ:	Confidential
Dtd:	0		
WI status:	Confidential	Town:	Manhattan
Field:	Confidential	Prodform:	Confidential

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Xloc:	-73.94748		
Yloc:	40.80076		
Confid:	We have confidential information for 6 months.		
Wellst:	CON		
Quad:	Central Park	Quadsec:	E
Deepestfor:	Confidential	Elevation:	22
Dt mod:	08-SEP-08	Site id:	NYOG70000000198

---

**A6**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      NYOG70000000191**

Api wellno:	31061236420000	Cnty:	New York
Hole:	23642	Sidetrck:	0
Completion:	0		
Well nm:	Kalahari K-15		
Coname:	FSLM Associates LLC		
Opno:	2260		
Dt approv:	24-JUN-05	Dt spud:	16-FEB-06
Dt comp:	12-APR-06	Well typ:	Confidential
Dtd:	0		
WI status:	Confidential	Town:	Manhattan
Field:	Confidential	Prodform:	Confidential
Xloc:	-73.94746		
Yloc:	40.80062		
Confid:	We have confidential information for 6 months.		
Wellst:	CON		
Quad:	Central Park	Quadsec:	E
Deepestfor:	Confidential	Elevation:	21
Dt mod:	08-SEP-08	Site id:	NYOG70000000191

---

**A7**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      NYOG70000000186**

Api wellno:	31061236460000	Cnty:	New York
Hole:	23646	Sidetrck:	0
Completion:	0		
Well nm:	Kalahari K-19		
Coname:	FSLM Associates LLC		
Opno:	2260		
Dt approv:	24-JUN-05	Dt spud:	16-FEB-06
Dt comp:	12-APR-06	Well typ:	Confidential
Dtd:	0		
WI status:	Confidential	Town:	Manhattan
Field:	Confidential	Prodform:	Confidential
Xloc:	-73.94733		
Yloc:	40.80044		
Confid:	We have confidential information for 6 months.		
Wellst:	CON		
Quad:	Central Park	Quadsec:	E
Deepestfor:	Confidential	Elevation:	22
Dt mod:	08-SEP-08	Site id:	NYOG70000000186

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for BRONX County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for BRONX COUNTY, NY

Number of sites tested: 31

<u>Area</u>	<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;20 pCi/L</u>
Living Area	0.670 pCi/L	96%	4%	0%
Basement	1.110 pCi/L	42%	58%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### New York Public Water Wells

Source: New York Department of Health

Telephone: 518-458-6731

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Department of Environmental Conservation

Telephone: 518-402-8072

These files contain records, in the database, of wells that have been drilled.

### RADON

#### State Database: NY Radon

Source: Department of Health

Telephone: 518-402-7556

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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## **APPENDIX E**

### **Freedom of Information Act Requests and Responses**

April 14, 2014

Fire Department, City of New York  
Bureau of Revenue Management  
9 MetroTech East  
Brooklyn, New York 11201-3857

**Re: Freedom of Information Request  
101 Lincoln Avenue  
Bronx, New York  
Block 2316, Lot 1  
Langan Project No.: 170301301**

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

The subject property is located at 101 Lincoln Avenue (Tax Block 2316, Lot 1) in Bronx, New York.

Please contact me at 203-562-5771 with any questions or send your response to my attention at [rwohlstrom@langan.com](mailto:rwohlstrom@langan.com) or at the below address:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.  
555 Long Wharf Drive, 9<sup>th</sup> floor  
New Haven, CT 06511

Thank you in advance for your cooperation.

Sincerely,

**Langan Engineering, Environmental, Surveying and Landscape  
Architecture, D.P.C.**



Ryan Wohlstrom  
Senior Staff Engineer

May 31, 2013

Attn: Records Access Officer  
New York City Department of Environmental Protection  
Bureau of Legal Affairs  
59-17 Junction Boulevard, 19th Floor  
Corona, New York 11368

**Re: Freedom of Information Request  
23-10 Queens Plaza South  
Long Island City, New York  
Block 425, Lot 5  
Langan Project No.: 170244602**

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

The subject property is located at 23-10 Queens Plaza South (Tax Block 425, Lot 5) in Long Island City, New York.

Please contact me at 212-479-5483 with any questions or send your response to my attention at [rwohlstrom@langan.com](mailto:rwohlstrom@langan.com) or at the below address:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.  
21 Penn Plaza  
360 West 31<sup>st</sup> Street, 8<sup>th</sup> floor  
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,  
**Langan Engineering, Environmental, Surveying and Landscape  
Architecture, D.P.C.**



Ryan Wohlstrom  
Senior Staff Engineer

### Thank You For Filling Out This Form

Shown below is your submission to **NYC.gov** on Monday, April 14, 2014 at 11:10:12

This form resides at [http://www.nyc.gov/html/dep/html/contact\\_us/foil.shtml](http://www.nyc.gov/html/dep/html/contact_us/foil.shtml)

**NAME of FIELDS**

**DATA**

<b>foil-form:</b>	REMOTE_HOST,HTTP_ADDR,HTTP_USER_AGENT
<b>type-of-record:</b>	BEC-Asbestos, BEC-Air, BEPA, BPS, BWT-Pretreatment
<b>record-request:</b>	Pursuant to the Federal Freedom of Information Act (5 U.S. C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of file regarding environmental conditions on the below property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LUST), asbestos abatement, and any other environmental report that your department may have. The subject property is located at 101 Lincoln Avenue in Bronx, New York (Block 2316, Lot 1).Please contact me at 203-562-5771 with any questions.
<b>record-request-type:</b>	Copies
<b>location:</b>	101 Lincoln Avenue, Bronx NY
<b>time-frame:</b>	All
<b>first-name:</b>	David
<b>last-name:</b>	Granucci
<b>phone:</b>	203-562-5771
<b>organization:</b>	Langan
<b>address:</b>	555 Long Wharf Drive
<b>city:</b>	New Haven
<b>state:</b>	CT
<b>zip-code:</b>	06511
<b>other-identifying:</b>	Tax Block 2316, Lot 1
<b>date:</b>	4/14/2014

April 14, 2014

New York State Department of Environmental Conservation  
Attn: Record Access Officer  
625 Broadway  
Albany, NY 12237

**Re: Freedom of Information Request  
101 Lincoln Avenue  
Bronx, New York  
Block 2316, Lot 1  
Langan Project No.: 170301301**

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

The subject property is located at 101 Lincoln Avenue (Tax Block 2316, Lot 1) in Bronx, New York.

Please contact me at 203-562-5771 with any questions or send your response to my attention at [rwohlstrom@langan.com](mailto:rwohlstrom@langan.com) or at the below address:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.  
555 Long Wharf Drive, 9<sup>th</sup> floor  
New Haven, CT 06511

Thank you in advance for your cooperation.

Sincerely,

**Langan Engineering, Environmental, Surveying and Landscape  
Architecture, D.P.C.**



Ryan Wohlstrom  
Senior Staff Engineer



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
**APPLICATION FOR ACCESS TO RECORDS**  
 (See Instructions on Reverse Side)

A  
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**TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:**

I hereby apply to inspect the following records under the provisions of the Freedom of Information Law:

Address of Facility or Site (if applicable)

287 East Houston Street, New York, New York (Block 350, Lot 18)

Spill No. (if applicable) \_\_\_\_\_ Facility ID No. (if applicable) \_\_\_\_\_

PBS No. (if applicable) \_\_\_\_\_

Other: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

After inspection, should I desire copies of all or part of the records inspected, I will identify the records to be copied and hereby offer to promptly pay the established fees. (Cost of reproduction or 25¢ per page as applicable). Contact me if cost will exceed \$ 25 \_\_\_\_\_.

Name (Print or type) Ryan Wohlstrom Telephone No. 2035625771 Fax No. 2037896142

Company (if applicable) Langan Engineering E-Mail Address Rwohlstrom@langan.com

Mailing Address 555 Long Wharf Drive, New Haven, CT 06511

Signature \_\_\_\_\_ Date \_\_\_\_\_

**TO APPLICANT:**

**RECORDS PROVIDED**

\_\_\_\_\_ The reproduction costs for the records provided \$ \_\_\_\_\_

\_\_\_\_\_ Records have been (partially, fully) provided

(If not provided, date when records are expected to be fully provided: \_\_\_\_\_)

**RECORDS NOT AVAILABLE**

\_\_\_\_\_ Records cannot be located after a diligent search \_\_\_\_\_ The Department is not the custodian for records indicated

**RECORDS DENIED**

**I hereby advise that access to the records, or part of the records, has been denied for the reason(s) checked below:**

\_\_\_\_\_ Specifically exempt by another statute

\_\_\_\_\_ Unwarranted invasion of privacy

\_\_\_\_\_ Would impair present or imminent contract awards or collective bargaining negotiations

\_\_\_\_\_ Trade secrets

\_\_\_\_\_ Compiled for law enforcement purposes

\_\_\_\_\_ Could endanger life or safety of any other person

\_\_\_\_\_ Inter-agency or intra-agency materials that are not:

statistical or factual tabulations or data

instructions to staff that affect the public

final agency policy or determinations; or

external audits, including but not limited to audits performed by the comptroller and the Federal government

\_\_\_\_\_ Other exemptions (as applicable)

Records Custodian signature \_\_\_\_\_

Date: \_\_\_\_\_

## INSTRUCTIONS

**TO APPLICANT:** (The completion of this form is voluntary; however, it will facilitate access to records you seek.)

1. Please identify the specific records you wish to inspect under the "applicant" portion of this form, sign and date in the appropriate place, and give or mail to the Records Access Officer, NYS Department of Environmental Conservation, 625 Broadway, Albany, New York 12233-1500. In the alternative, you may send your request electronically to [foil@gw.dec.state.ny.us](mailto:foil@gw.dec.state.ny.us)
2. If after inspection you should desire copies, identify to the Records Custodian the specific records to be copied. Make check or money order payable to the "New York State Department of Environmental Conservation" for copies reproduced by the Department.
3. If you are denied access to records or portions of records, you may submit a written appeal to the FOIL Appeals Officer, Department of Environmental Conservation, 625 Broadway, Albany, New York 12233-1500. Such appeal has to be made within 30 days after the denial. Please attach a copy of this form showing the "Records Denied" portion when filing your appeal. The FOIL Appeals Officer will evaluate the appeal and respond in writing to you within ten (10) business days after receipt of the appeal.

### **TO DEC RECORDS CUSTODIAN:**

1. Conduct search for records:
  - 1a. If records requested for inspection are not in the custody of the Department, advise the applicant if possible as to the identity and location of the proper custodial agency.
  - 1b. If records are found, determine accessibility (in accordance with Public Officers Law Section 87.2)
2. After determination of accessibility:
  - 2a. If accessible—make available to applicant for inspection.
  - 2b. If not accessible—complete "Records Denied" portion of this form, make and retain one copy of completed form, and give original to applicant fully explaining reason for denial.
3. If applicant desires copies—collect total cost from applicant, and make copies (or arrange with applicant to have copies made with outside vendor and applicant pays vendor). Originals must be returned to Department Records Custodian(s).
4. If you are not able to respond to a request within five (5) business days, acknowledge receipt of the request in writing by the fifth business day and estimate when your final response will be made. If a request can not be fulfilled within (20) business days from the date of the acknowledgment letter, you must advise the requester of a date certain for completion of the request.

### **SPECIAL NOTE**

See [www.dec.ny.gov/public/373.html](http://www.dec.ny.gov/public/373.html) for answers to the most commonly asked questions about DEC and the New York State Freedom of Information Law.

April 14, 2014

New York State Department of Health  
Attn: Record Access Officer  
Corning Tower, Room 2348  
Albany, NY 12237

**Re: Freedom of Information Request  
101 Lincoln Avenue  
Bronx, New York  
Block 2316, Lot 1  
Langan Project No.: 170301301**

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

The subject property is located at 101 Lincoln Avenue (Tax Block 2316, Lot 1) in Bronx, New York.

Please contact me at 203-562-5771 with any questions or send your response to my attention at [rwohlstrom@langan.com](mailto:rwohlstrom@langan.com) or at the below address:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.  
555 Long Wharf Drive, 9<sup>th</sup> floor  
New Haven, CT 06511

Thank you in advance for your cooperation.

Sincerely,

**Langan Engineering, Environmental, Surveying and Landscape  
Architecture, D.P.C.**



Ryan Wohlstrom  
Senior Staff Engineer





NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE

For office use only CONTROL NUMBER:

Empty box for control number

FREEDOM OF INFORMATION LAW REQUEST FORM

To: Records Access Officer
NYC Department of Health and Mental Hygiene
42-09 28th Street, 14th Floor, CN 31
Long Island City, NY 11101
Phone: (347) 396-6078/6116
Fax: (347) 396-6087
recordsaccess@health.nyc.gov

Date 04 / 14 / 14

Dear Record Access Officer:

I, David Granucci request copies of any inspection reports and/or records located in the Bureau of Health and Mental Hygiene, of the New York City Department of Health and Mental Hygiene.

The records pertain to:

- Lead Poisoning, Animal bite, Employment/Human Resources, Contracts/RFPs, Pest Control, Correctional Health, Early Intervention, Food Safety, Mental Health, Communicable Diseases, School Health, Day Care, Other:

Please specify/describe the records you are requesting from the above program(s): Environmental permits, notices of violations, spills/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LUST), asbestos abatement, and any other environmental reports for the property located at 101 Lincoln Avenue in Bronx, NY (Block 2316, Lot 1)

There is a charge of 25¢ per page or actual costs of reproduction, payable in advance.

Requester's Name: David Granucci (Please print) (Signature)

Requester's Organization: Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Requester's Address: 555 Long Wharf Drive, New Haven, CT 06511 (Street, City, State, Zip code)

Telephone Number: (203) 562-5771 E-mail: dgranucci@langan.com

## Request Confirmation

### Request Information

Tracking Number : [EPA-R2-2014-005545](#)

Requester Name : Mr. David V. Granucci

Date Submitted : 04/14/2014

Request Status : Submitted

Description :

Pursuant to the Federal Freedom of Information Act (5 U.S. C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of file regarding environmental conditions on the below property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LUST), asbestos abatement, and any other environmental report that your department may have. The subject property is located at 101 Lincoln Avenue in Bronx, New York (Block 2316, Lot 1).

Please contact me at 203-562-5771 with any questions.

## **APPENDIX F**

### **Deed Records**

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.



THIS INDENTURE, made the 20th day of December, nineteen hundred and Sixty-five  
BETWEEN G.B. HOLDING CORPORATION, a New York corporation having its  
office & principal place of business at 777 East 138th Street,  
Bronx, New York

2698 PAGE 49



party of the first part, and GEROSA HAULAGE & WAREHOUSE CORPORATION, a New  
York corporation having its office & principal place of business at  
777 East 138th Street, Bronx, New York



party of the second part,  
WITNESSETH, that the party of the first part, in consideration of One Hundred and no/100 - -  
----- (\$100.00) ----- dollars,  
and other good & valuable consideration  
lawful money of the United States.



by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or  
successors and assigns of the party of the second part forever,



ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate,  
ly. and being in the Borough and County of the Bronx, City and State of  
New York, bounded and described as follows:



BEGINNING at the southwesterly corner of Bruckner (formerly Southern)  
Boulevard and Lincoln Avenue and running thence southerly along the  
westerly line of Lincoln Avenue 240 feet to old high water mark on  
the easterly shore of Harlem River; thence northwesterly along the  
line of old high water mark about 411.73 feet to the easterly line  
of the property acquired by the Mayor, Aldermen and Commonalty of  
the City of New York in the proceeding commonly known as the Third  
Avenue Bridge Proceeding; thence northeasterly and along said  
easterly line 54.893 feet to the southerly line of Bruckner (formerly  
Southern) Boulevard; thence easterly along the southerly line of  
Bruckner (formerly Southern) Boulevard about 333.16 feet to the  
point or place of Beginning; be said dimensions and distances more  
or less. And also all the right, title and interest of the Party  
of the First Part in and to the lands, rights, and privileges  
granted to Lewis Morris by Letters Patent under the Great Seal of  
the State of New York dated August 14, 1851, and recorded in the  
Book of Patents No. 31, page 173 and conveyed by the Executor of  
the said Lewis Morris to Clarence S. Brown by deed bearing date of  
November 16, 1865, and recorded in the Office of the Register of  
Westchester County in Liber 619 of Deeds at page 435, and conveyed  
by said Clarence S. Brown to Bryan Lawrence by deed bearing date  
May 12, 1868, and recorded in the Office of the Register of West-  
chester County in Liber 673 of Deeds at page 467 on May 14, 1868,  
of, in and to all that part of the same bounded and described as  
follows:



BEGINNING at the line of old high water mark on the westerly line  
of Lincoln Avenue at a point distant 240 feet southerly from the  
southwesterly corner of Bruckner (formerly Southern) Boulevard



and Lincoln Avenue; running thence southerly along the westerly line of Lincoln Avenue 190 feet, more or less, to the old boundary line between the Counties of New York and Westchester; thence northwesterly along the old boundary line between the Counties of New York and Westchester about 518.205 feet to the easterly line of the property acquired by the Mayor, Aldermen, Commonalty of the City of New York in the proceeding commonly known as the Third Avenue Bridge Proceeding; thence northeasterly along said easterly line 186.971 feet to the old high water line of the easterly shore of the Harlem River; thence southeasterly along old high water line of Harlem River about 411.73 feet to the westerly line of Lincoln Avenue at the point or place of Beginning, be the same more or less.

TOGETHER with all the right, title and interest of the Party of the First Part of, in and to the lands under water and the water rights and privileges in front of said premises to the bulkhead line.



**TOGETHER** with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof.

**TOGETHER** with the appurtenances and all the estate and rights of the party of the first part in and to said premises,

**TO HAVE AND TO HOLD** the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

**AND** the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

**IN WITNESS WHEREOF**, the party of the first part has duly executed this deed the day and year first above written.

**IN PRESENCE OF:**

**G.E. HOLDING CORPORATION**

By: [Signature] Pres.





On the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me personally came

On the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me personally came

1954 2088 PAGE 52

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

On the 20th day of December 19 65, before me personally came FRANK GEROSA to me known, who, being by me duly sworn, did depose and say that he resides at No. 75 Highview Terrace, Yonkers, New York;

On the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. \_\_\_\_\_

that he is the President of G.B. HOLDING CORPORATION, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed by its name thereto by like order.

that he knows \_\_\_\_\_ to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

*Roslyn Younger*  
Notary Public

ROSLYN YOUNGER  
Notary Public, State of New York  
No. 24-4373200  
Qualified in Kings County  
Certificate Filled in New York County  
Commission Expires March 30, 1967

**Bargain and Sale Deed**  
WITHOUT COVENANT AGAINST GRANTOR'S ACTS

SECTION 9  
BLOCK 2316  
LOTS - 1 & 30  
COUNTY ~~BRONX~~ of Bronx

TITLE No. \_\_\_\_\_  
G.B. HOLDING CORPORATION

TO  
GEROSA HAULAGE & WAREHOUSE CORPORATION

AS

Recorded At Request of The Title Guarantee Company  
RETURN BY MAIL TO:

FRIEDMAN, MARX & HANDLER, ESQS.  
233 Broadway, NYC (7).  
Zip No. \_\_\_\_\_



THE BOARD OF  
TITLE UNDERWRITERS

RECEIVE THIS SPACE FOR USE OF RECORDING OFFICE

CITY REGISTER-BRONX CO.  
RECORDED IN DEEDS  
1965 DEC 30 10 54 AM

Block and Lot  
City Register  
Lot  
To  
For

OFFICE OF CITY REGISTER  
Bronx County  
RECORDED IN DEEDS  
Witness my hand and official seal  
*Henry O'Neil*  
CITY REGISTER

7980

TAX PAID

RECEIVED

## **APPENDIX G**

**New York City Department of Building Records**





[CLICK HERE TO SIGN UP FOR BUILDINGS NEWS](#)

**NYC Department of Buildings**  
**Property Profile Overview**

<b>101 LINCOLN AVENUE</b>		<b>BRONX 10454</b>	<b>BIN# 2000759</b>
LINCOLN AVENUE	101 - 101	<b>Health Area</b> : 4700	<b>Tax Block</b> : 2316
3 AVENUE	NO NUMBER	<b>Census Tract</b> : 19	<b>Tax Lot</b> : 1
BRUCKNER BOULEVARD	NO NUMBER	<b>Community Board</b> : 201	<b>Condo</b> : NO
		<b>Buildings on Lot</b> : 1	<b>Vacant</b> : NO

[View DCP Addresses...](#) [Browse Block](#)

[View Zoning Documents](#) [View Challenge Results](#) [Pre - BIS PA](#) [View Certificates of Occupancy](#)

STOP WORK ORDER EXISTS ON THIS PROPERTY

<b>Cross Street(s):</b>	EAST 132 STREET, BRUCKNER BOULEVARD		
<b>DOB Special Place Name:</b>			
<b>DOB Building Remarks:</b>			
<b>Landmark Status:</b>		<b>Special Status:</b>	N/A
<b>Local Law:</b>	NO	<b>Loft Law:</b>	NO
<b>SRO Restricted:</b>	NO	<b>TA Restricted:</b>	NO
<b>UB Restricted:</b>	NO		
<b>Little 'E' Restricted:</b>	HAZMAT/NOISE/AIR	<b>Grandfathered Sign:</b>	NO
<b>Legal Adult Use:</b>	NO	<b>City Owned:</b>	NO
<b>Additional BINs for Building:</b>	NONE		

**Special District:** MX-1 - MIXED USE-1 (PORT MORRIS, BX)

**This property is located in an area that may be affected by the following:**

<b>Tidal Wetlands Map Check:</b>	Yes	
<b>Freshwater Wetlands Map Check:</b>	No	<a href="#">Click here for more information</a>
<b>Coastal Erosion Hazard Area Map Check:</b>	No	

**Department of Finance Building Classification:** G1-GARAGE/GAS STAT'N

**Please Note:** The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	<b>Total</b>	<b>Open</b>	<a href="#">Elevator Records</a>
<a href="#">Complaints</a>	2	0	<a href="#">Electrical Applications</a>
<a href="#">Violations-DOB</a>	4	0	<a href="#">Permits In-Process / Issued</a>
<a href="#">Violations-ECB (DOB)</a>	0	0	<a href="#">Illuminated Signs Annual Permits</a>
<a href="#">Jobs/Filings</a>	5		<a href="#">Plumbing Inspections</a>
<a href="#">ARA / LAA Jobs</a>	1		<a href="#">Open Plumbing Jobs / Work Types</a>
<b>Total Jobs</b>	6		<a href="#">Facades</a>
<a href="#">Actions</a>	5		<a href="#">Marquee Annual Permits</a>
			<a href="#">Boiler Records</a>
			<a href="#">DEP Boiler Information</a>
			<a href="#">Crane Information</a>
			<a href="#">After Hours Variance Permits</a>

OR Enter Action Type:

OR Select from List:

AND

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



[CLICK HERE TO SIGN UP FOR BUILDINGS NEWS](#)

NYC Department of Buildings

Overview for Complaint #:2070200 = RESOLVED

Complaint at: 101 LINCOLN AVENUE

BIN: [2000759](#)

Borough: BRONX

ZIP: 10454

Re: FAILURE TO PROVIDE REQD INFO FOR APPL #200515889

Category Code: 83 CONSTRUCTION -CONTRARY/BEYOND APPROVED PLANS/PERMITS

DOB District: N/A

Assigned To: BRONX BOROUGH OFFICE

Priority: D

Received: 05/13/2005 09:36 Block: 2316 Lot: 1 Community Board: 201

Owner: GEROSA INC

Last Inspection: 08/01/2005 -- BY BADGE # 1851

Disposition: 09/11/2006 - A3 - FULL STOP WORK ORDER SERVED

Comments: NON COMPLIANCE FOR APPLICATION #200515889

DOB Violation #: 080105C0101VWMM - 195117

Previous Violations: DOB: 080105C0101VWMM - 195117

Complaint Disposition History

Disposition Date	Code	Disposition	Inspection By	Date
------------------	------	-------------	---------------	------

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings  
DOB Violations

Page: 1

Premises: 101 LINCOLN AVENUE BRONX

BIN: [2000759](#) Block: 2316 Lot: 1

NUMBER	TYPE	FILE DATE
<a href="#">V* 082995LL629117883</a>	DOB VIOLATION - DISMISSED	08/29/1995
<a href="#">V* 021097LL629111738</a>	DOB VIOLATION - DISMISSED	02/10/1997
<a href="#">V* 091697LL6291197235</a>	DOB VIOLATION - DISMISSED	09/16/1997
<a href="#">V* 050312BENCH01122</a>	DOB VIOLATION - DISMISSED	05/03/2012

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings

**DOB Violation Display for 082995LL629117883**

**Premises:** 101 LINCOLN AVENUE BRONX

**BIN:** [2000759](#) **Block:** 2316 **Lot:** 1

**Issue Date:** 08/29/1995

**Violation Category:** V\* - DOB VIOLATION - DISMISSED

**Violation Type:** LL6291 - LOCAL LAW 62/91 - BOILERS

**Violation Number:** 17883

**Device No.:** 00089372 - 01-COMMERCIAL

**ECB No.:**

**Infraction Codes:**

**Description:**

**Disposition:**

**Code:** D - DISMISSED **Date:** 01/31/1996

**Inspector:** 12

**Comments:** DISMISSED PENALTY PAID SEE INV#60098516

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings

**DOB Violation Display for 021097LL629111738**

**Premises:** 101 LINCOLN AVENUE BRONX

**BIN:** [2000759](#) **Block:** 2316 **Lot:** 1

**Issue Date:** 02/10/1997

**Violation Category:** V\* - DOB VIOLATION - DISMISSED

**Violation Type:** LL6291 - LOCAL LAW 62/91 - BOILERS

**Violation Number:** 11738

**Device No.:** 00089372 - 01-COMMERCIAL

**ECB No.:**

**Infraction Codes:**

**Description:**

**Disposition:**

**Code:** D - DISMISSED

**Date:** 09/17/1997

**Inspector:** 12

**Comments:** DISMISSED PENALTY PAID SEE INV#60147638 CK#82707804 \$20,000

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings

**DOB Violation Display for 091697LL6291197235**

**Premises:** 101 LINCOLN AVENUE BRONX

**BIN:** [2000759](#) **Block:** 2316 **Lot:** 1

**Issue Date:** 09/16/1997

**Violation Category:** V\* - DOB VIOLATION - DISMISSED

**Violation Type:** LL6291 - LOCAL LAW 62/91 - BOILERS

**Violation Number:** 197235

**Device No.:** 00089372 - 01-COMMERCIAL

**ECB No.:**

**Infraction Codes:**

**Description:**

**Disposition:**

**Code:** D - DISMISSED

**Date:** 04/29/1998

**Inspector:** 12

**Comments:** DISMISSED PENALTY PAID INV#60168441 AMT\$500.00 CK#00158049.

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



[CLICK HERE TO SIGN UP FOR BUILDINGS NEWS](#)

NYC Department of Buildings

**DOB Violation Display for 050312BENCH01122**

Premises: 101 LINCOLN AVENUE BRONX

BIN: [2000759](#) Block: 2316 Lot: 1

Issue Date: 05/03/2012

Violation Category: V\* - DOB VIOLATION - DISMISSED

Violation Type: BENCH - FAILURE TO BENCHMARK

Violation Number: 01122

Device No.:

ECB No.:

Infraction Codes:

Description: FAILURE TO FILE BENCHMARKING REPORT OF ENERGY USE AS PER AD. CODE SEC. 28-309.4

Disposition:

Code: D - DISMISSED

Date: 08/21/2012

Inspector: 9999

Comments: PAID 20404547

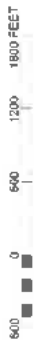
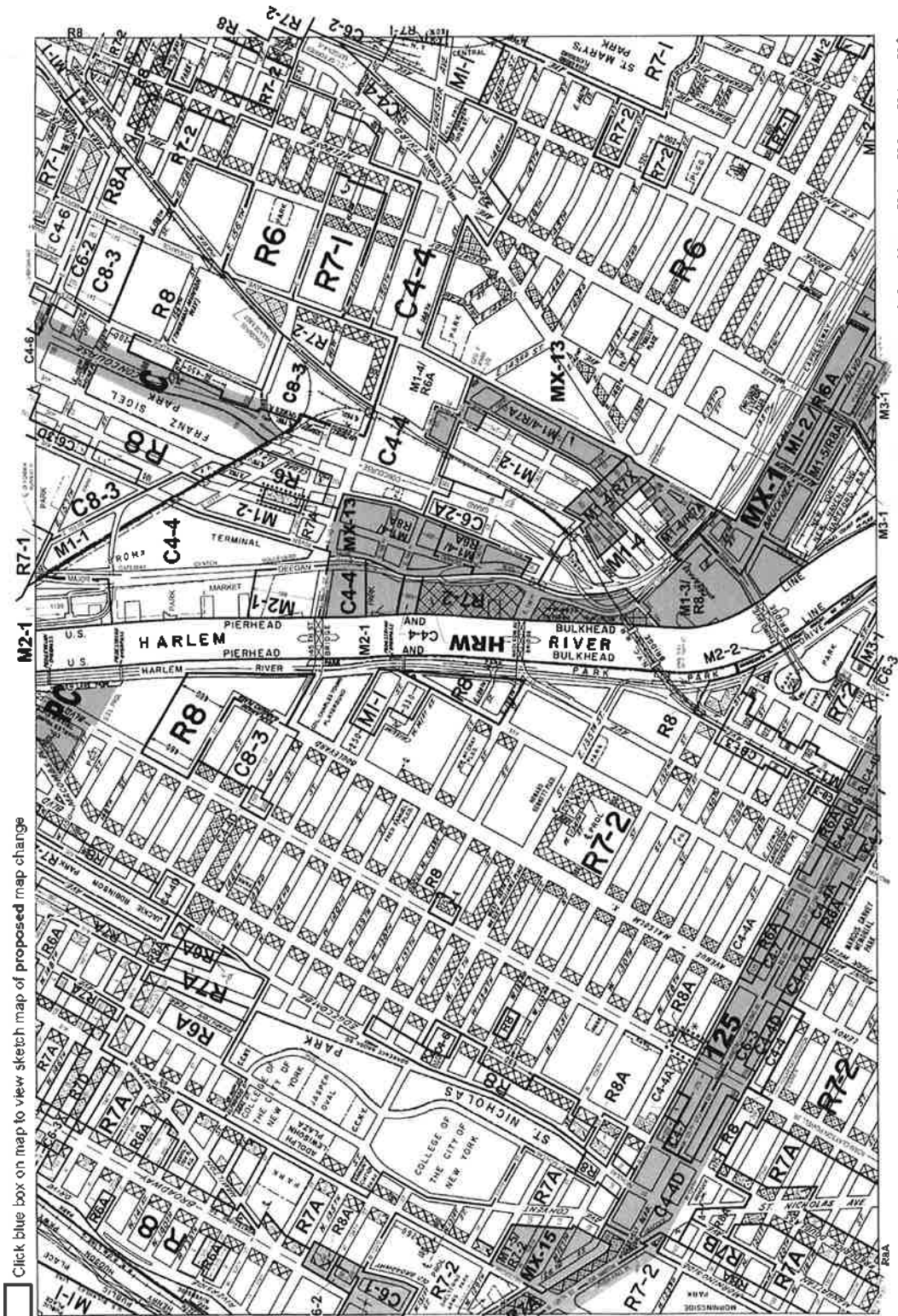
If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



## **APPENDIX H**

### **New York City Planning Commission Zoning Map**

Click blue box on map to view sketch map of proposed map change



- C1-1
- C1-2
- C1-3
- C1-4
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- C1-99
- C1-100

NOTE: Where no dimensions are shown on the zoning map, such dimensions are determined in Article VI, Chapter 6, Location of District Boundaries of the Zoning Resolution.

# ZONING MAP

THE NEW YORK CITY PLANNING COMMISSION

**Major Zoning Classifications:**  
 R - RESIDENTIAL  
 C - COMMERCIAL  
 M - MANUFACTURING

- R - RESIDENTIAL (S, M, H, L, H, S, H, L)
- C - COMMERCIAL (S, M, H, L, H, S, H, L)
- M - MANUFACTURING (S, M, H, L, H, S, H, L)

**Effective Date(s) of Rezoning:**  
 A - 12/15/1974  
 B - 12/15/1974  
 C - 12/15/1974  
 D - 12/15/1974  
 E - 12/15/1974  
 F - 12/15/1974  
 G - 12/15/1974  
 H - 12/15/1974  
 I - 12/15/1974  
 J - 12/15/1974  
 K - 12/15/1974  
 L - 12/15/1974  
 M - 12/15/1974  
 N - 12/15/1974  
 O - 12/15/1974  
 P - 12/15/1974  
 Q - 12/15/1974  
 R - 12/15/1974  
 S - 12/15/1974  
 T - 12/15/1974  
 U - 12/15/1974  
 V - 12/15/1974  
 W - 12/15/1974  
 X - 12/15/1974  
 Y - 12/15/1974  
 Z - 12/15/1974

**Special Requirements:**  
 1 - 3 bed or less apartment, etc.  
 2 - 4 bed or less apartment, etc.  
 3 - 5 bed or less apartment, etc.  
 4 - 6 bed or less apartment, etc.  
 5 - 7 bed or less apartment, etc.  
 6 - 8 bed or less apartment, etc.  
 7 - 9 bed or less apartment, etc.  
 8 - 10 bed or less apartment, etc.  
 9 - 11 bed or less apartment, etc.  
 10 - 12 bed or less apartment, etc.  
 11 - 13 bed or less apartment, etc.  
 12 - 14 bed or less apartment, etc.  
 13 - 15 bed or less apartment, etc.  
 14 - 16 bed or less apartment, etc.  
 15 - 17 bed or less apartment, etc.  
 16 - 18 bed or less apartment, etc.  
 17 - 19 bed or less apartment, etc.  
 18 - 20 bed or less apartment, etc.  
 19 - 21 bed or less apartment, etc.  
 20 - 22 bed or less apartment, etc.  
 21 - 23 bed or less apartment, etc.  
 22 - 24 bed or less apartment, etc.  
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 31 - 33 bed or less apartment, etc.  
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 35 - 37 bed or less apartment, etc.  
 36 - 38 bed or less apartment, etc.  
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 88 - 90 bed or less apartment, etc.  
 89 - 91 bed or less apartment, etc.  
 90 - 92 bed or less apartment, etc.  
 91 - 93 bed or less apartment, etc.  
 92 - 94 bed or less apartment, etc.  
 93 - 95 bed or less apartment, etc.  
 94 - 96 bed or less apartment, etc.  
 95 - 97 bed or less apartment, etc.  
 96 - 98 bed or less apartment, etc.  
 97 - 99 bed or less apartment, etc.  
 98 - 100 bed or less apartment, etc.

# ZONING MAP 6a

**MAP KEY**

	3b		3d
	5c		6a
	5d		6b
	6c		6d

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NOTE: Zoning information is shown on this map as a guide to the City of New York. For more information on the map, please contact the Department of City Planning at the City Planning Office, 115 West 42nd Street, New York, NY 10018-5001. For more information on the City Planning Office, please visit our website at [www.cityplanning.org](http://www.cityplanning.org) or contact the Zoning Information Desk at (212) 312-3281.

## **APPENDIX I**

### **EDR Tax Map Search Info**

**101 Lincoln Avenue**

101 Lincoln Avenue  
Bronx, NY 10454

Inquiry Number: 3910510.6  
April 14, 2014

# The EDR Property Tax Map Report

## EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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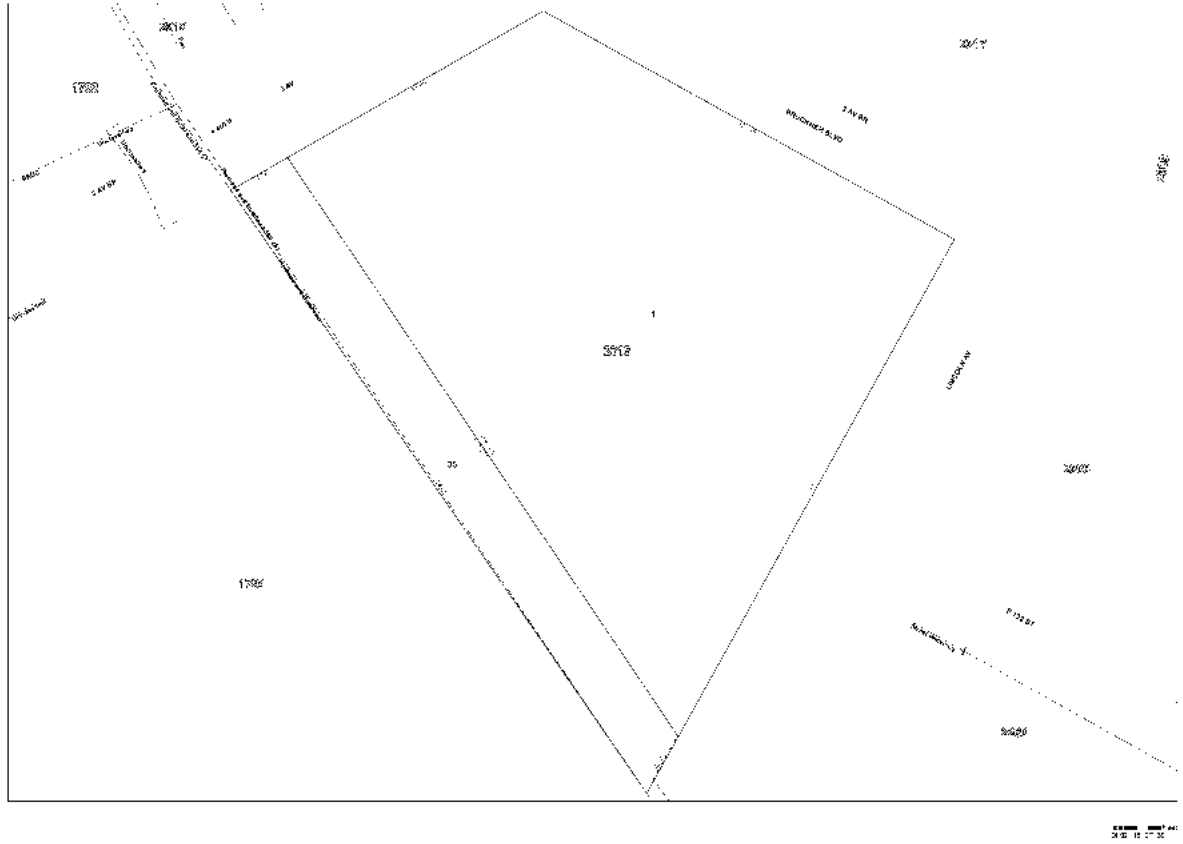
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- Legend**
- Census
  - Precinct Boundary
  - Precinct Name
  - Precinct Lines
  - Precinct Labels
  - Precinct Numbers
  - Precinct Boundaries
  - Precinct Names
  - Precinct Numbers
  - Precinct Boundaries



Scale: 1:10000

## **APPENDIX J**

### **Aerial Photographs**



**101 Lincoln Avenue**

101 Lincoln Avenue

Bronx, NY 10454

Inquiry Number: 3910510.12

April 16, 2014

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography April 16, 2014

**Target Property:**

101 Lincoln Avenue

Bronx, NY 10454

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: July 01, 1924	EDR
1941	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: January 01, 1941	EDR
1944	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: January 01, 1944	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: February 23, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: April 27, 1984	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Date: January 01, 1994	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/DOQQ - acquisition dates: March 13, 1995	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Year: 2006	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-G8, Central Park, NY;/Flight Year: 2011	EDR

INQUIRY #: 3910510.12

YEAR: 1924



| = 500'



6 c

COPYRIGHT 1924  
ARTHUR S. TUTTLE, CHIEF ENGINEER





**INQUIRY #:** 3910510.12

**YEAR:** 1941

 = 500'







INQUIRY #: 3910510.12

YEAR: 1944

| = 500'







INQUIRY #: 3910510.12

YEAR: 1954

| = 500'



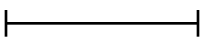




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**YEAR:** 1966



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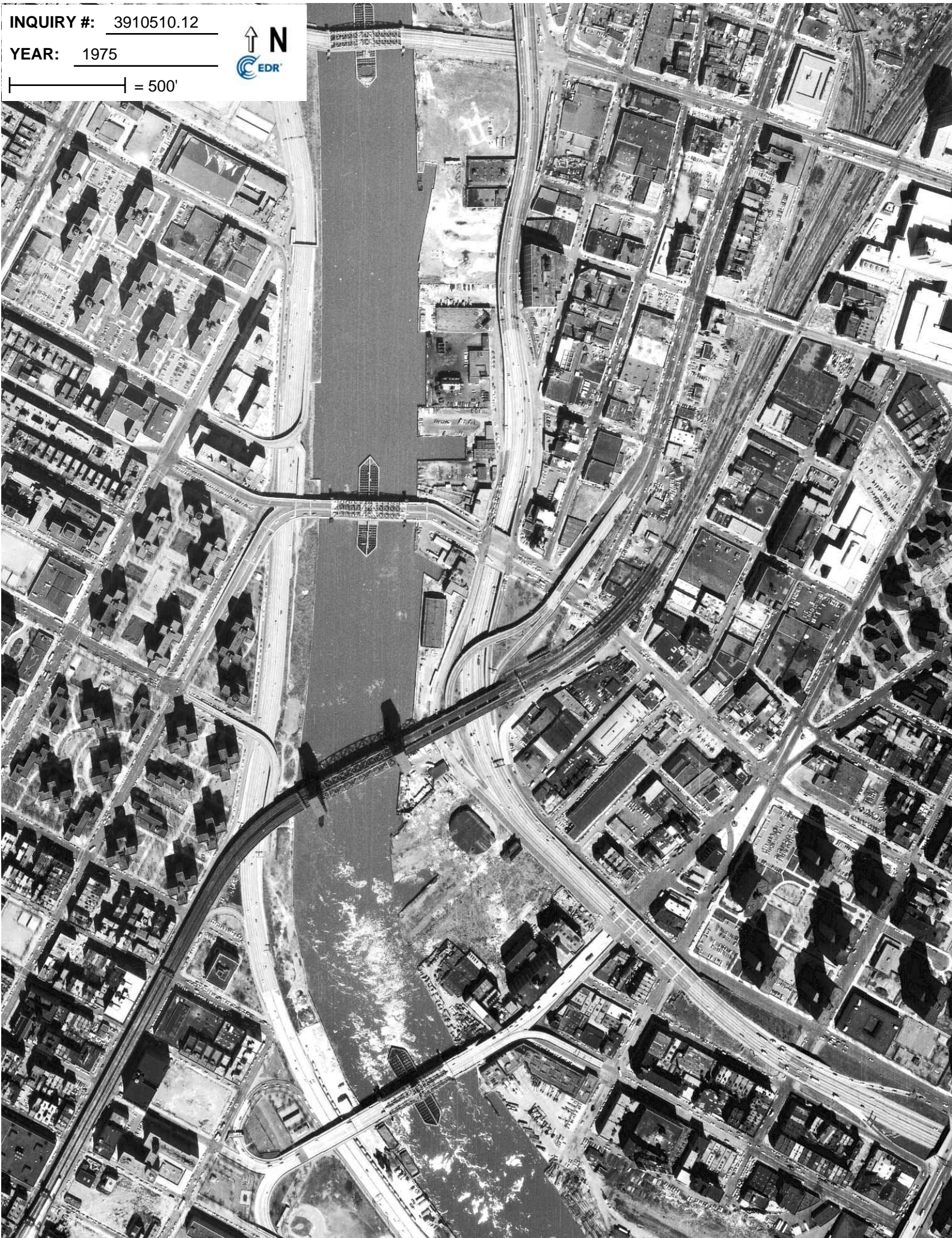


INQUIRY #: 3910510.12

YEAR: 1975



| = 500'







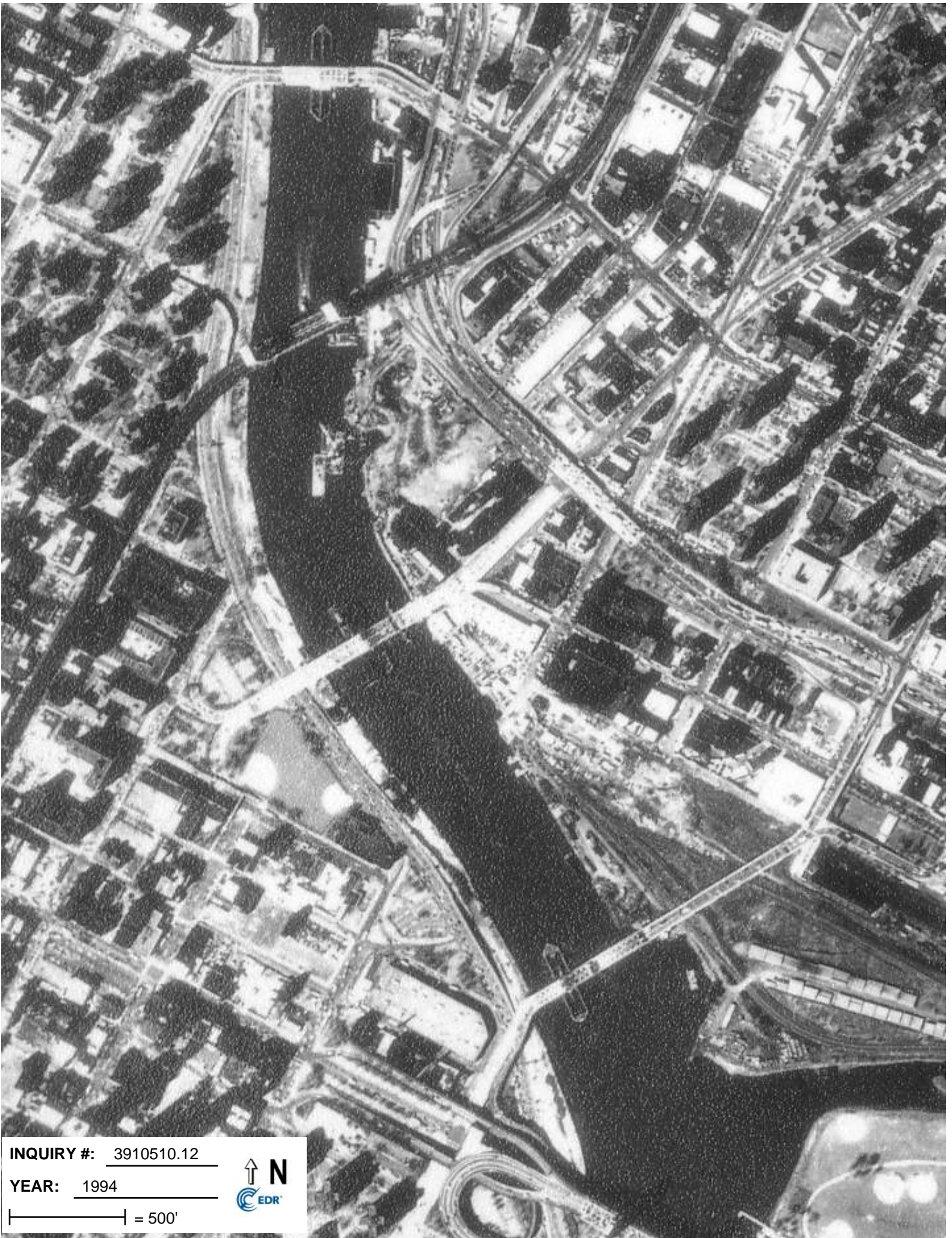
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YEAR: 1984

| = 500'







INQUIRY #: 3910510.12

YEAR: 1994

| = 500'







INQUIRY #: 3910510.12

YEAR: 1995

| = 500'







INQUIRY #: 3910510.12

YEAR: 2006

| = 500'







**INQUIRY #:** 3910510.12

**YEAR:** 2009

**|** = 500'







**INQUIRY #:** 3910510.12

**YEAR:** 2011

| = 500'



## **APPENDIX K**

### **Sanborn Fire Insurance Maps**





**101 Lincoln Avenue**

101 Lincoln Avenue  
Bronx, NY 10454

Inquiry Number: 3910510.3

April 15, 2014

## Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# Certified Sanborn® Map Report

4/15/14

**Site Name:**

101 Lincoln Avenue  
101 Lincoln Avenue  
Bronx, NY 10454

**Client Name:**

Langan Environmental Services  
555 Long Wharf Drive  
New Haven, CT 06511



EDR Inquiry # 3910510.3

Contact: David Granucci

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Langan Environmental Services were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

### Certified Sanborn Results:

**Site Name:** 101 Lincoln Avenue  
**Address:** 101 Lincoln Avenue  
**City, State, Zip:** Bronx, NY 10454  
**Cross Street:**  
**P.O. #** 170301301  
**Project:** 101 Lincoln Avenue  
**Certification #** 9CF0-4ECD-85C6



Sanborn® Library search results  
Certification # 9CF0-4ECD-85C6

### Maps Provided:

2007	2001	1992	1980	1947
2006	1998	1991	1978	1946
2005	1996	1989	1977	1944
2004	1995	1986	1969	1935
2003	1994	1984	1968	1928
2002	1993	1981	1951	1922

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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## Sanborn Sheet Thumbnails

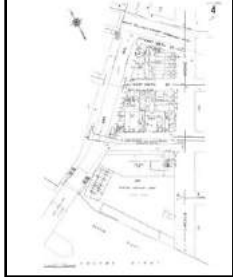
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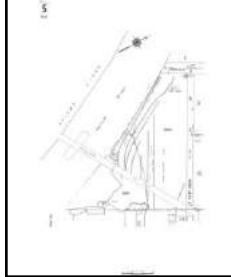
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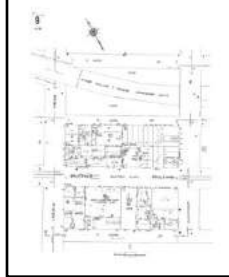
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

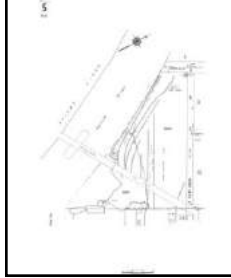
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Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

### 2005 Source Sheets



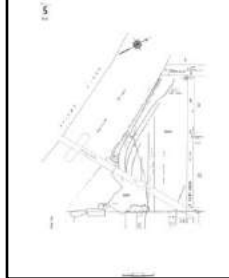
Volume 8N, Sheet 92



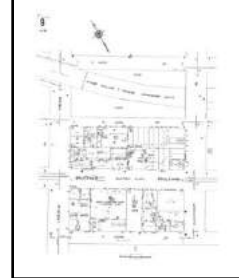
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

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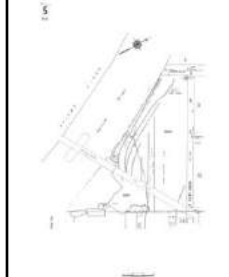
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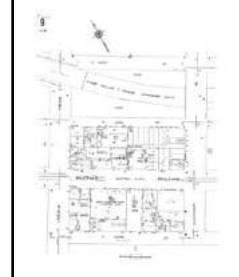
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Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

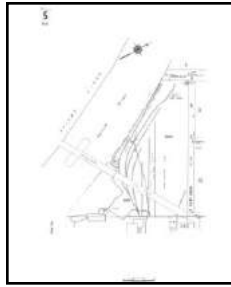
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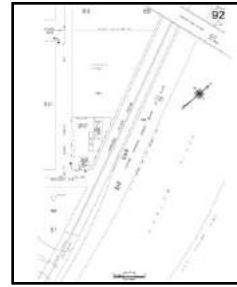
Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9



Volume 8N, Sheet 92

**2002 Source Sheets**



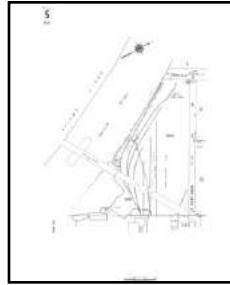
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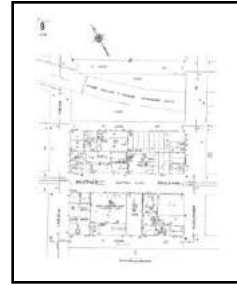
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

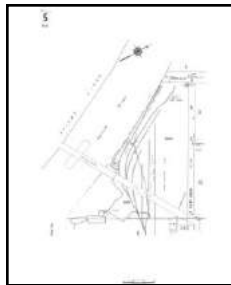
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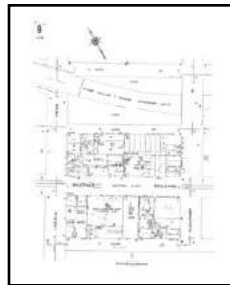
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

**1998 Source Sheets**



Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

**1996 Source Sheets**



Volume 8N, Sheet 92



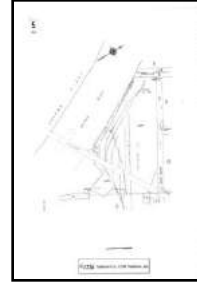
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Volume 9S, Sheet 4

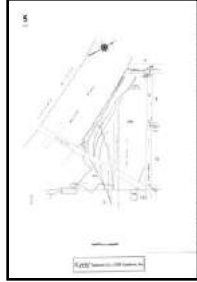


Volume 9S, Sheet 5

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Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9



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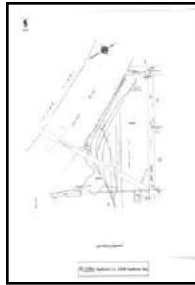
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Volume 9S, Sheet 4

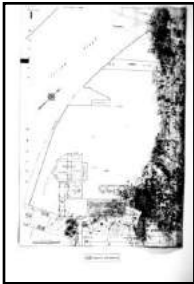


Volume 9S, Sheet 5



Volume 9S, Sheet 9

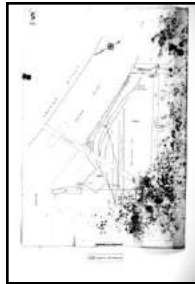
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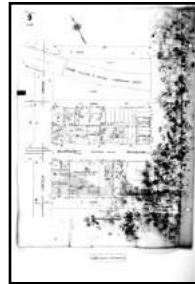
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

**1992 Source Sheets**



Volume 8N, Sheet 92



Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

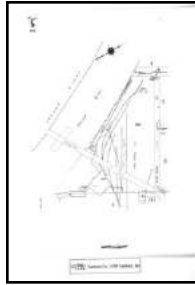
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Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

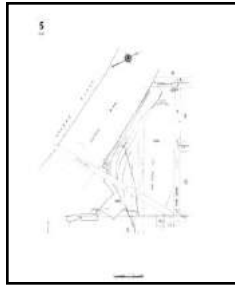
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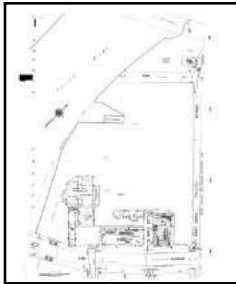


Volume 9S, Sheet 5



Volume 9S, Sheet 9

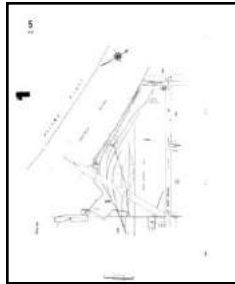
**1986 Source Sheets**



Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9



Volume 8N, Sheet 92

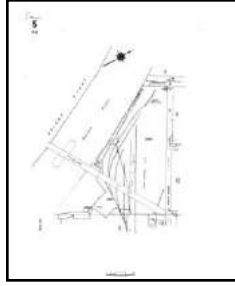
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Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

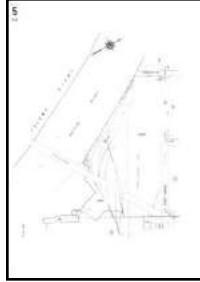
**1981 Source Sheets**



Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

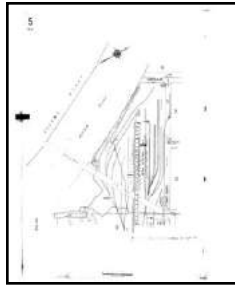
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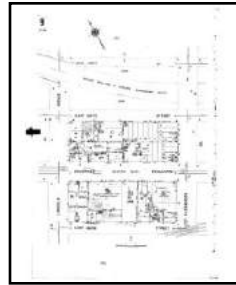
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5

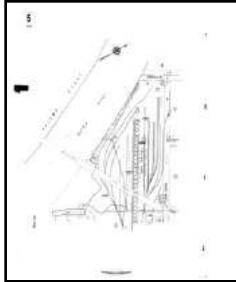


Volume 9S, Sheet 9

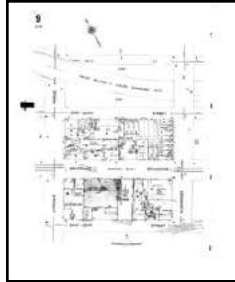
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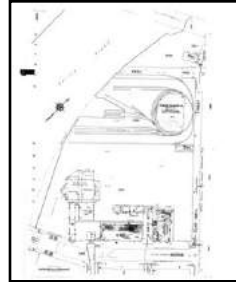
Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9



Volume 9S, Sheet 1

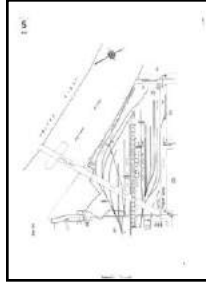
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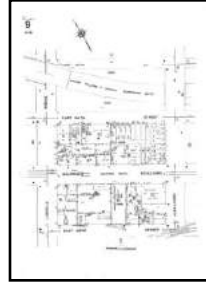
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

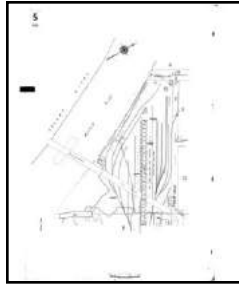
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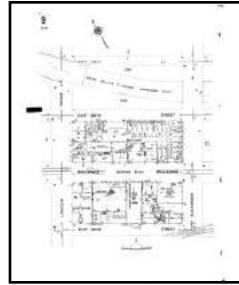
Volume 9S, Sheet 1



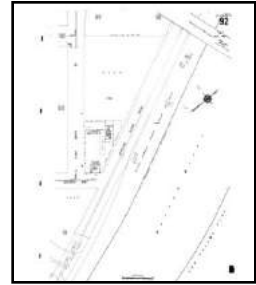
Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9



Volume 8N, Sheet 92

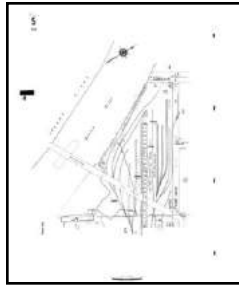
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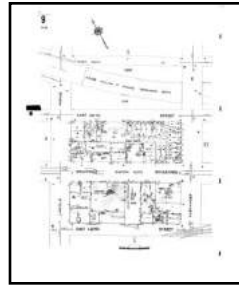
Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

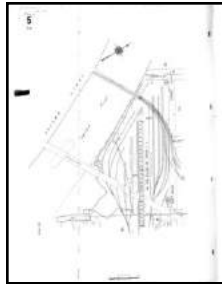
**1951 Source Sheets**



Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9



Volume 8N, Sheet 92

**1947 Source Sheets**



Volume 9S, Sheet 1



Volume 9S, Sheet 4



Volume 9S, Sheet 5



Volume 9S, Sheet 9

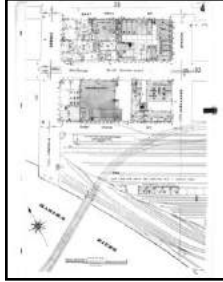
**1946 Source Sheets**



Volume 9, Sheet 1

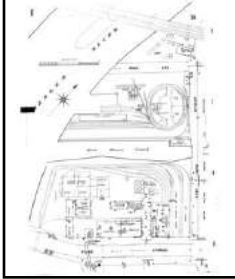


Volume 9, Sheet 3



Volume 9, Sheet 4

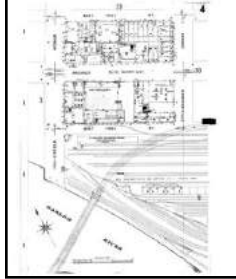
**1944 Source Sheets**



Volume 9, Sheet 1



Volume 9, Sheet 3



Volume 9, Sheet 4

**1935 Source Sheets**



Volume 9, Sheet 1



Volume 9, Sheet 3



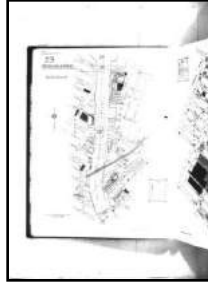
Volume 9, Sheet 4



**1928 Source Sheets**



Volume Pier Maps, Sheet 22

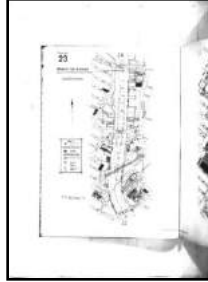


Volume Pier Maps, Sheet 23

**1922 Source Sheets**



Volume Pier Maps, Sheet 22



Volume Pier Maps, Sheet 23

**1908 Source Sheets**



Volume 9, Sheet 1



Volume 9, Sheet 3



Volume 9, Sheet xxxx

**1903 Source Sheets**



Volume Atlas Maps, Sheet xxxx



Volume Atlas Maps, Sheet 1



Volume Atlas Maps, Sheet xxxx



Volume Atlas Maps, Sheet 2

**1891 Source Sheets**



Volume 9, Sheet 193

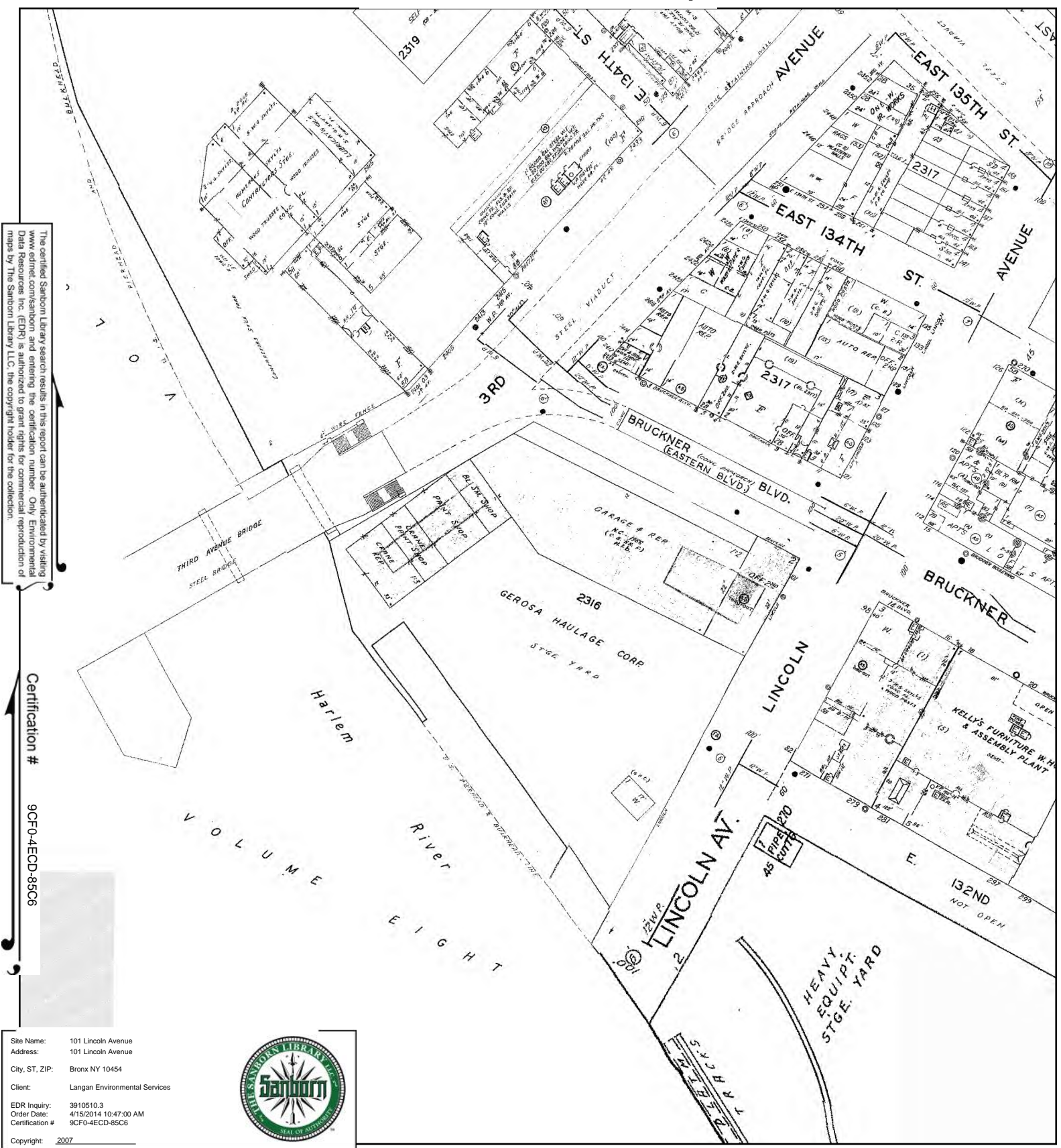


Volume 9, Sheet 185

# 2007 Certified Sanborn Map

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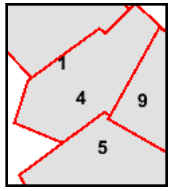
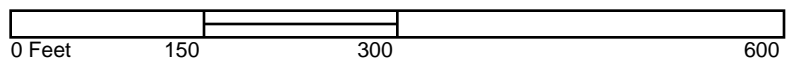
Certification # 9CF0-4ECD-85C6



Site Name: 101 Lincoln Avenue  
 Address: 101 Lincoln Avenue  
 City, ST, ZIP: Bronx NY 10454  
 Client: Langan Environmental Services  
 EDR Inquiry: 3910510.3  
 Order Date: 4/15/2014 10:47:00 AM  
 Certification #: 9CF0-4ECD-85C6  
 Copyright: 2007



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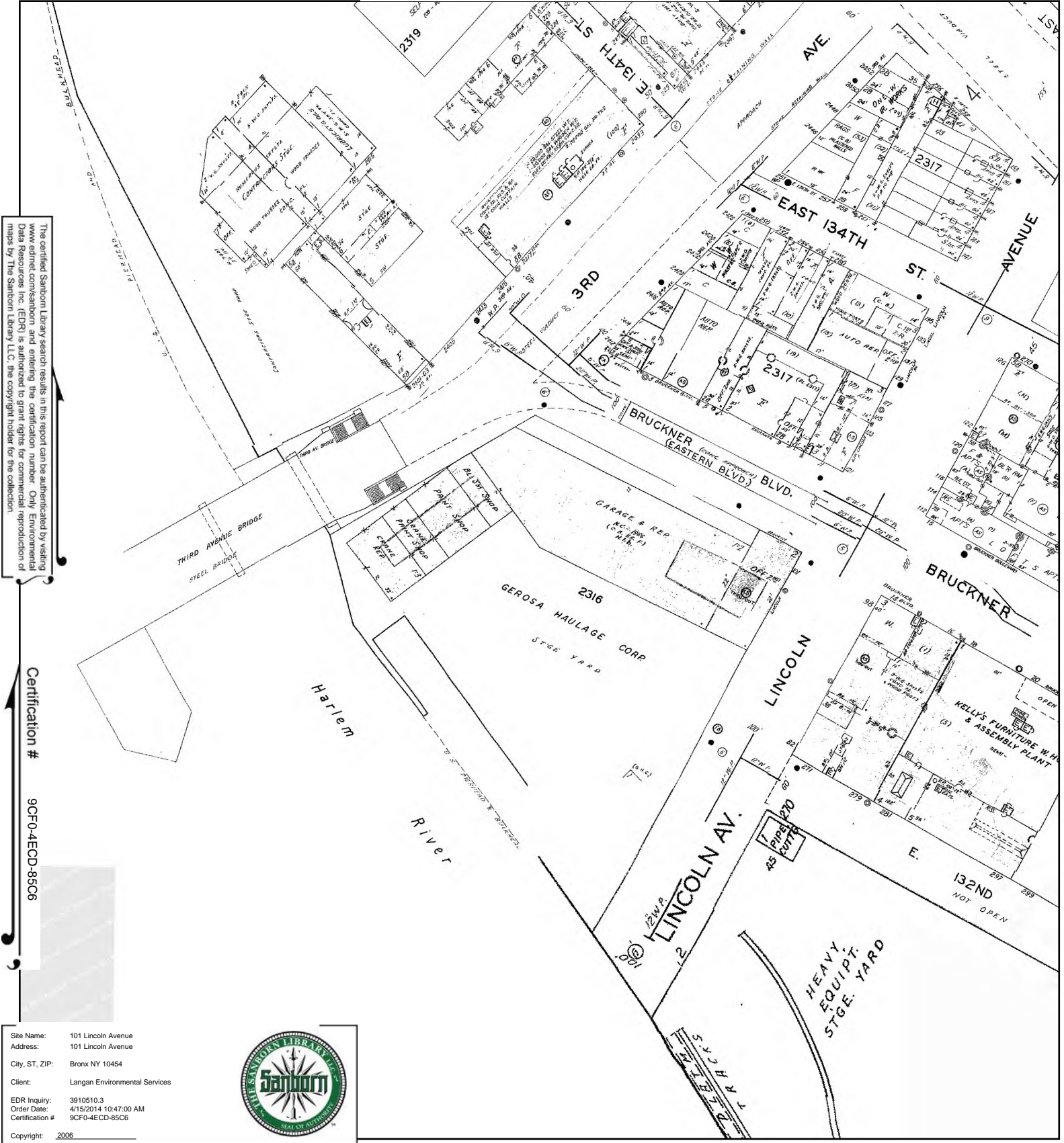


- Volume 9S, Sheet 1
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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9





# 2006 Certified Sanborn Map



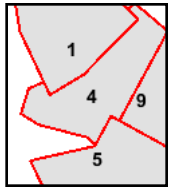
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 Certification #: 9CF0-4ECD-85C6  
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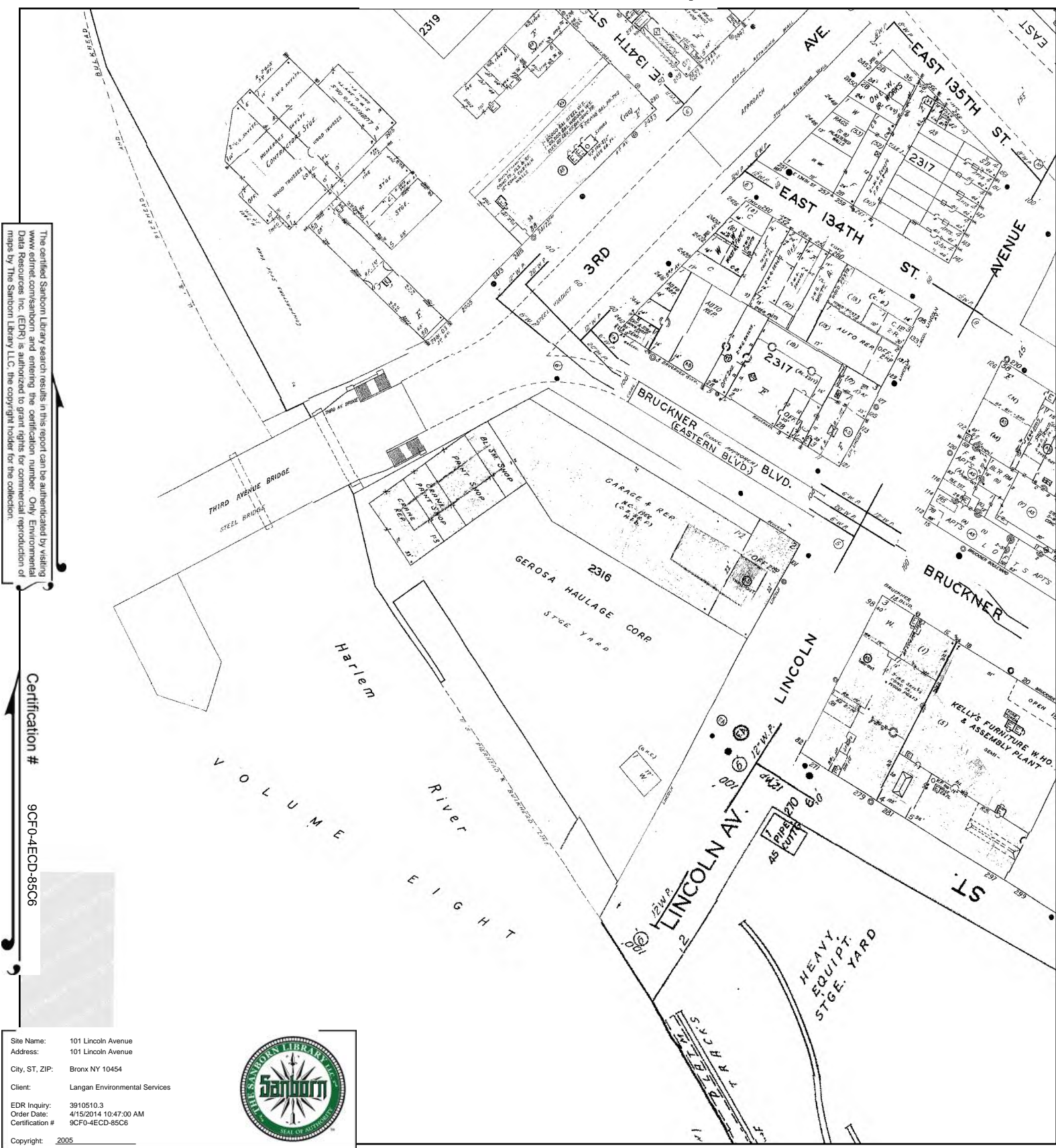
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- Volume 9S, Sheet 4
- Volume 9S, Sheet 5
- Volume 9S, Sheet 9



# 2005 Certified Sanborn Map

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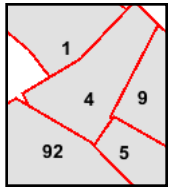
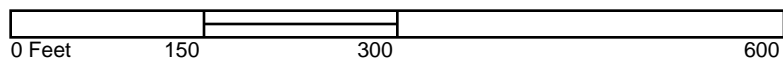
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Site Name: 101 Lincoln Avenue  
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 EDR Inquiry: 3910510.3  
 Order Date: 4/15/2014 10:47:00 AM  
 Certification #: 9CF0-4ECD-85C6



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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9





# 2004 Certified Sanborn Map

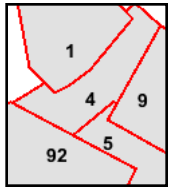
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 Address: 101 Lincoln Avenue  
 City, ST, ZIP: Bronx NY 10454  
 Client: Langan Environmental Services  
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 Order Date: 4/15/2014 10:47:00 AM  
 Certification #: 9CF0-4ECD-85C6  
 Copyright: 2004



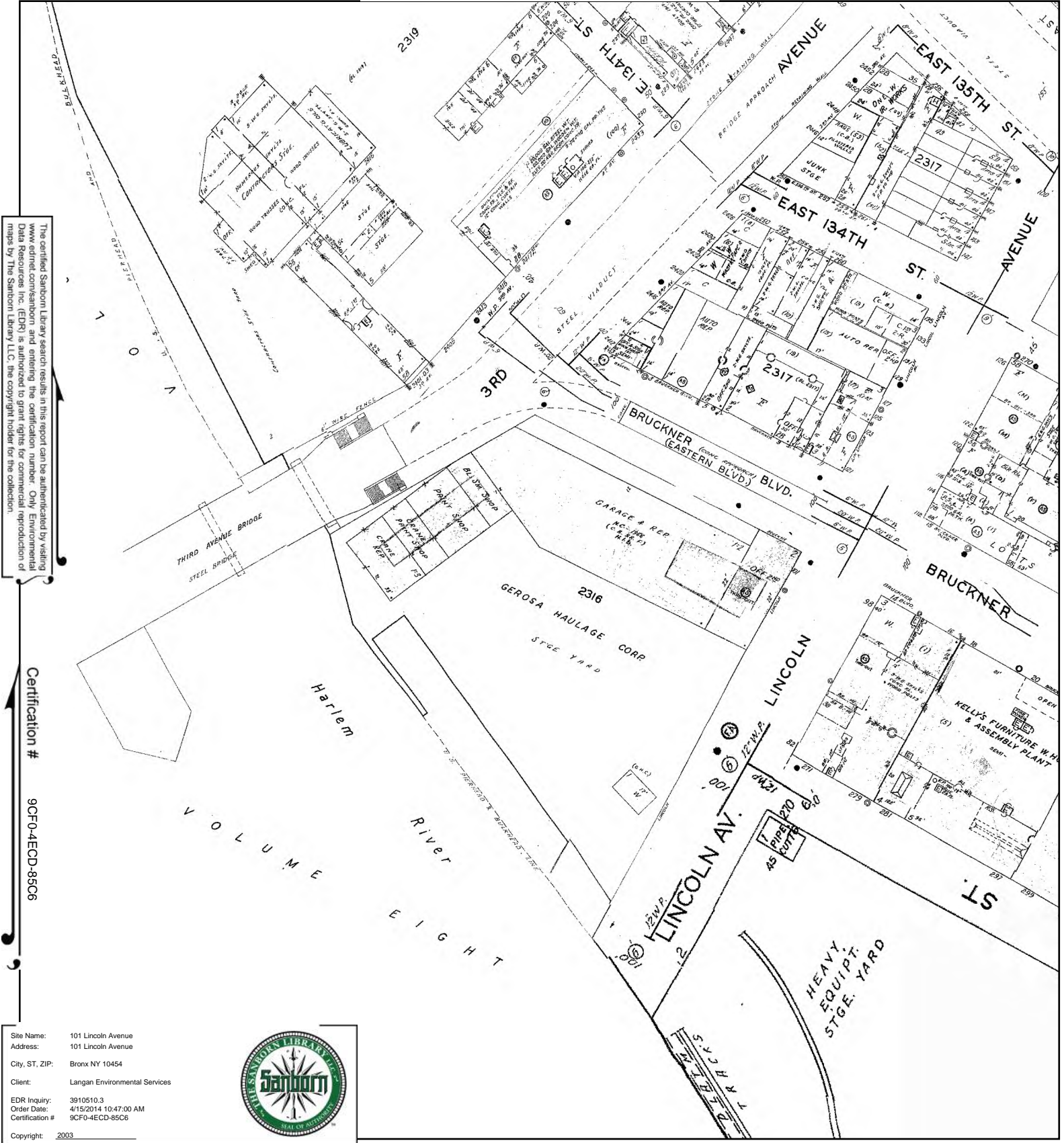
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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9



# 2003 Certified Sanborn Map



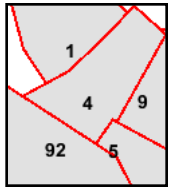
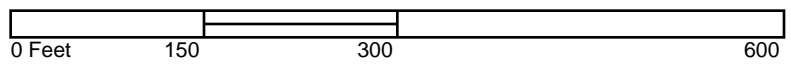
The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

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 Address: 101 Lincoln Avenue  
 City, ST, ZIP: Bronx NY 10454  
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 EDR Inquiry: 3910510.3  
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 Copyright: 2003



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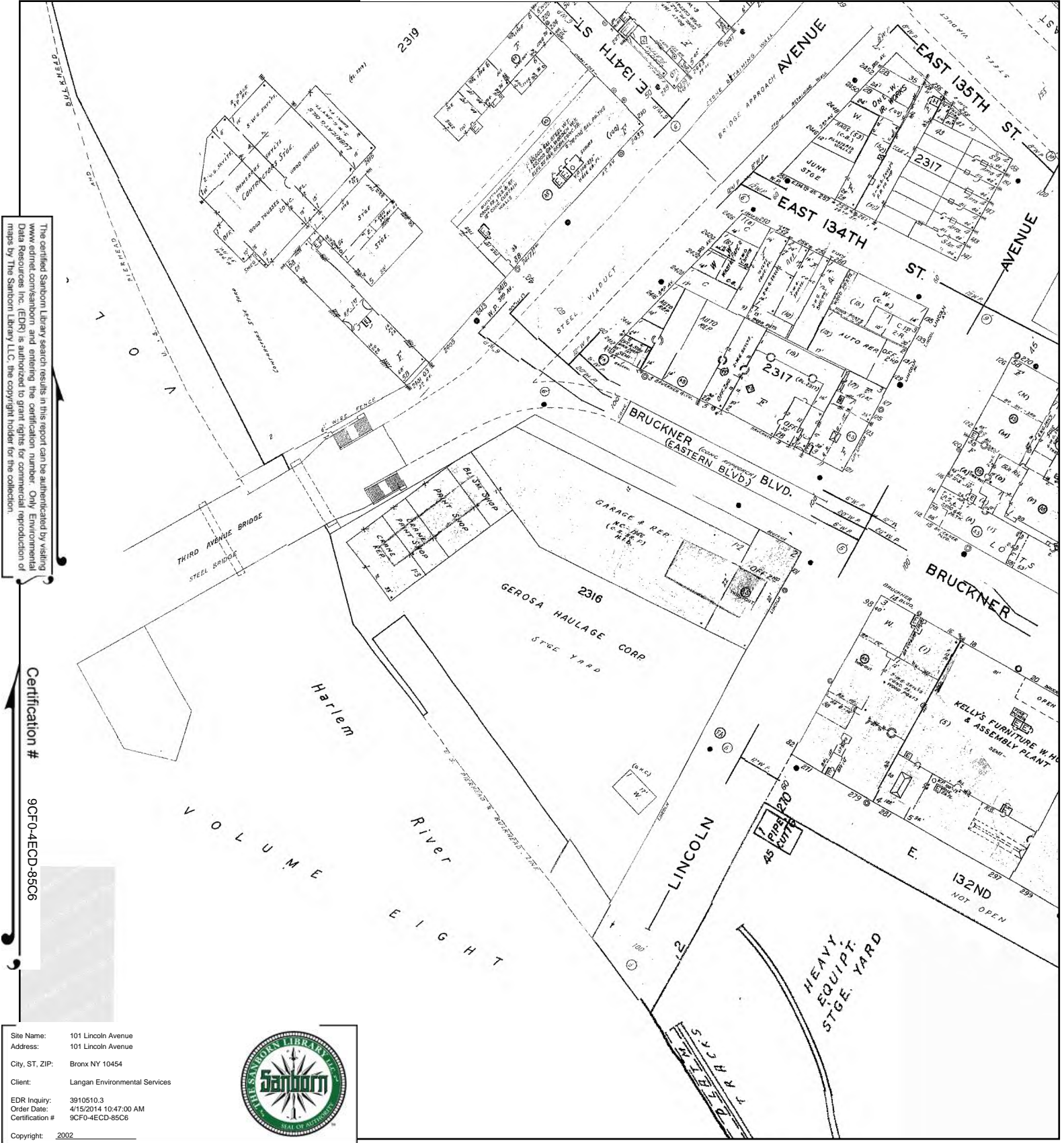


- Volume 9S, Sheet 1
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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9
- Volume 8N, Sheet 92





# 2002 Certified Sanborn Map



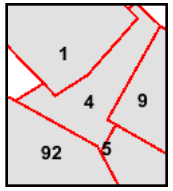
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 Client: Langan Environmental Services  
 EDR Inquiry: 3910510.3  
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 Copyright: 2002



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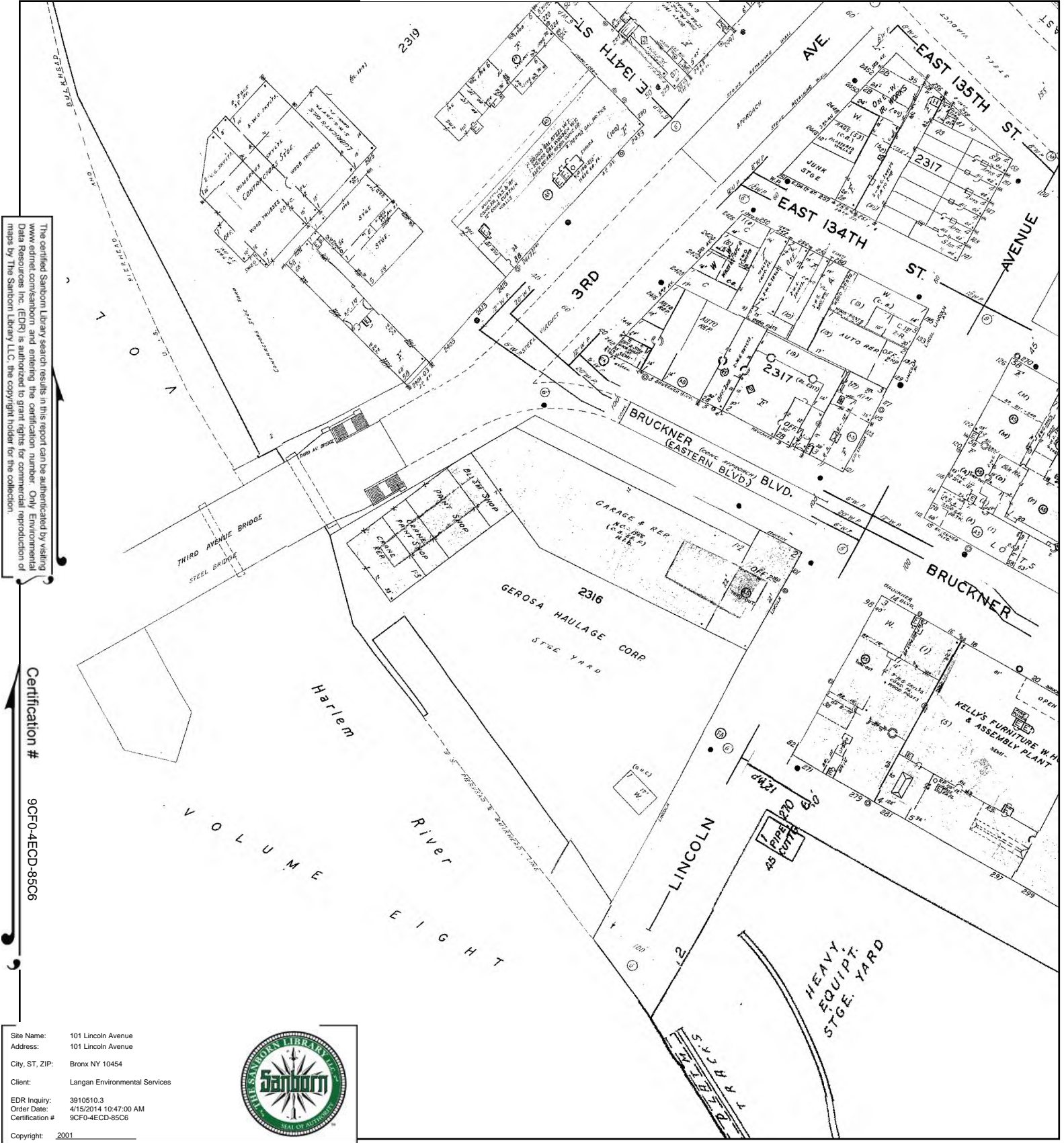


- Volume 8N, Sheet 92
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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9





# 2001 Certified Sanborn Map



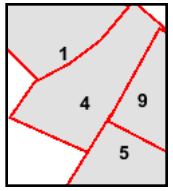
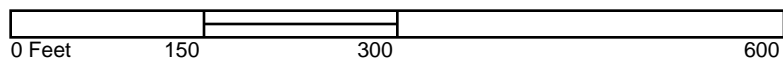
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 2001



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- Volume 9S, Sheet 9





# 1998 Certified Sanborn Map

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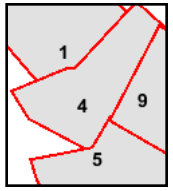
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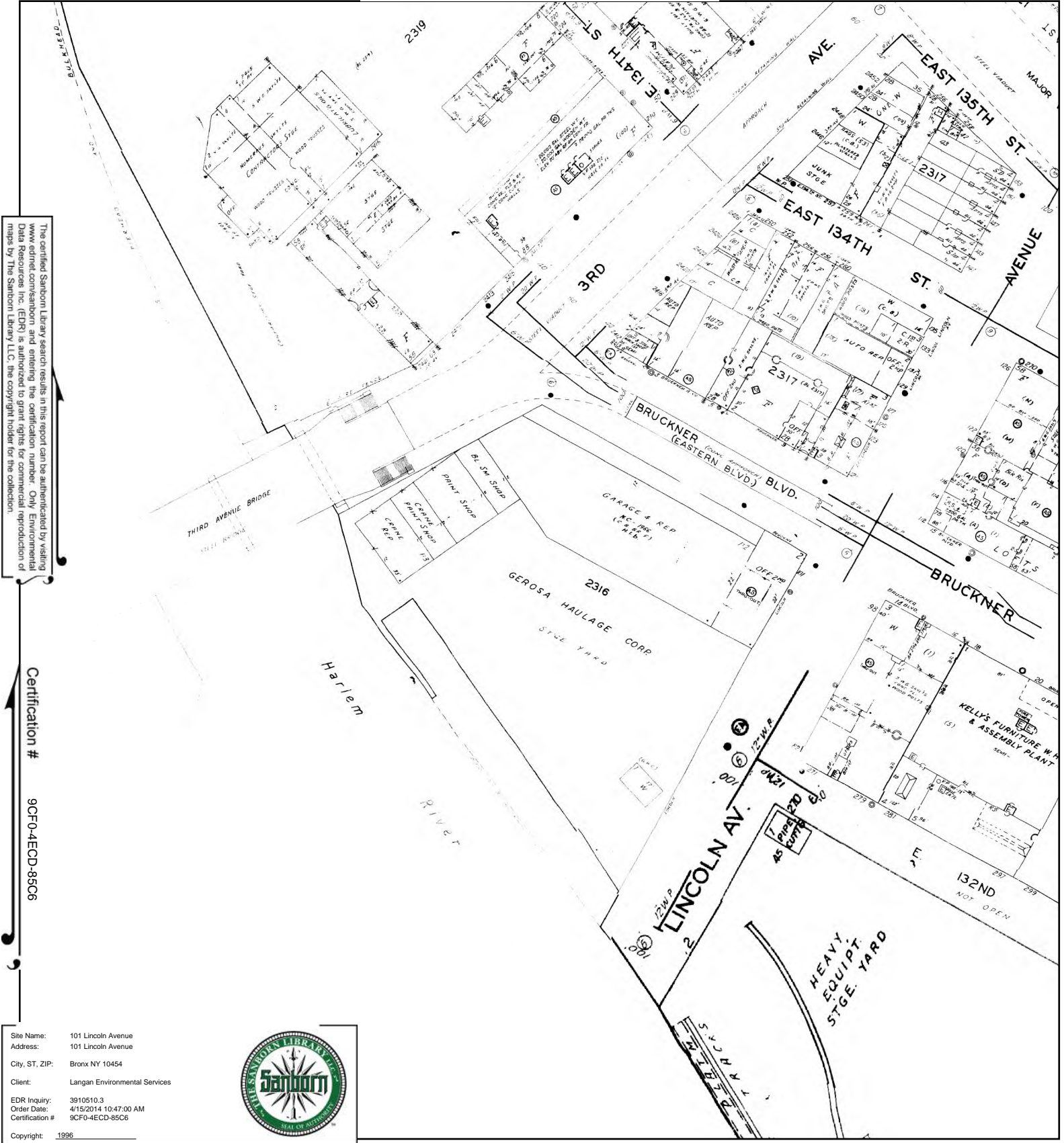
This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



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- Volume 9S, Sheet 9



# 1996 Certified Sanborn Map



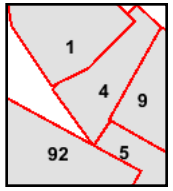
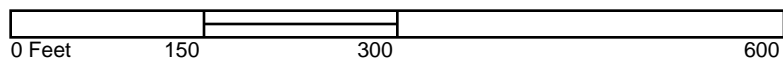
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1996



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- Volume 9S, Sheet 1
- Volume 9S, Sheet 4
- Volume 9S, Sheet 5





# 1995 Certified Sanborn Map

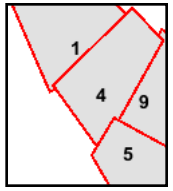
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1995



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- Volume 9S, Sheet 9
- Volume 9S, Sheet 1



# 1994 Certified Sanborn Map

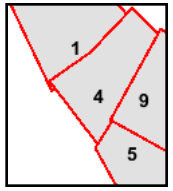
The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

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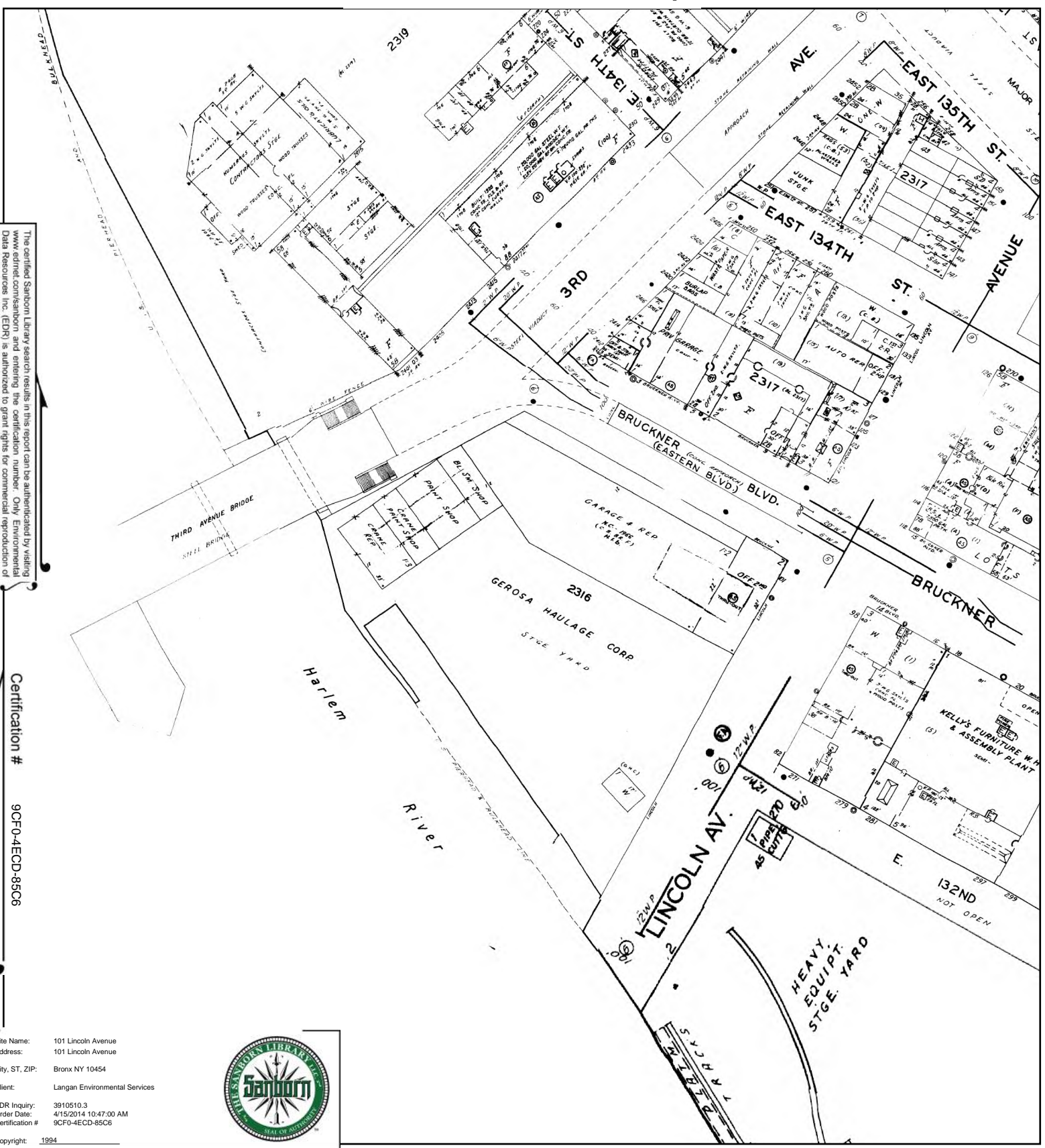
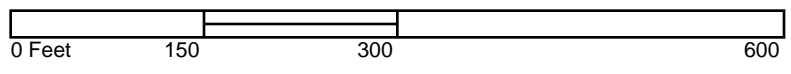
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1994



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# 1993 Certified Sanborn Map



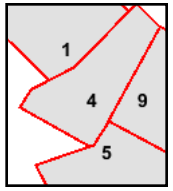
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 Order Date: 4/15/2014 10:47:00 AM  
 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1993



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- Volume 9S, Sheet 9

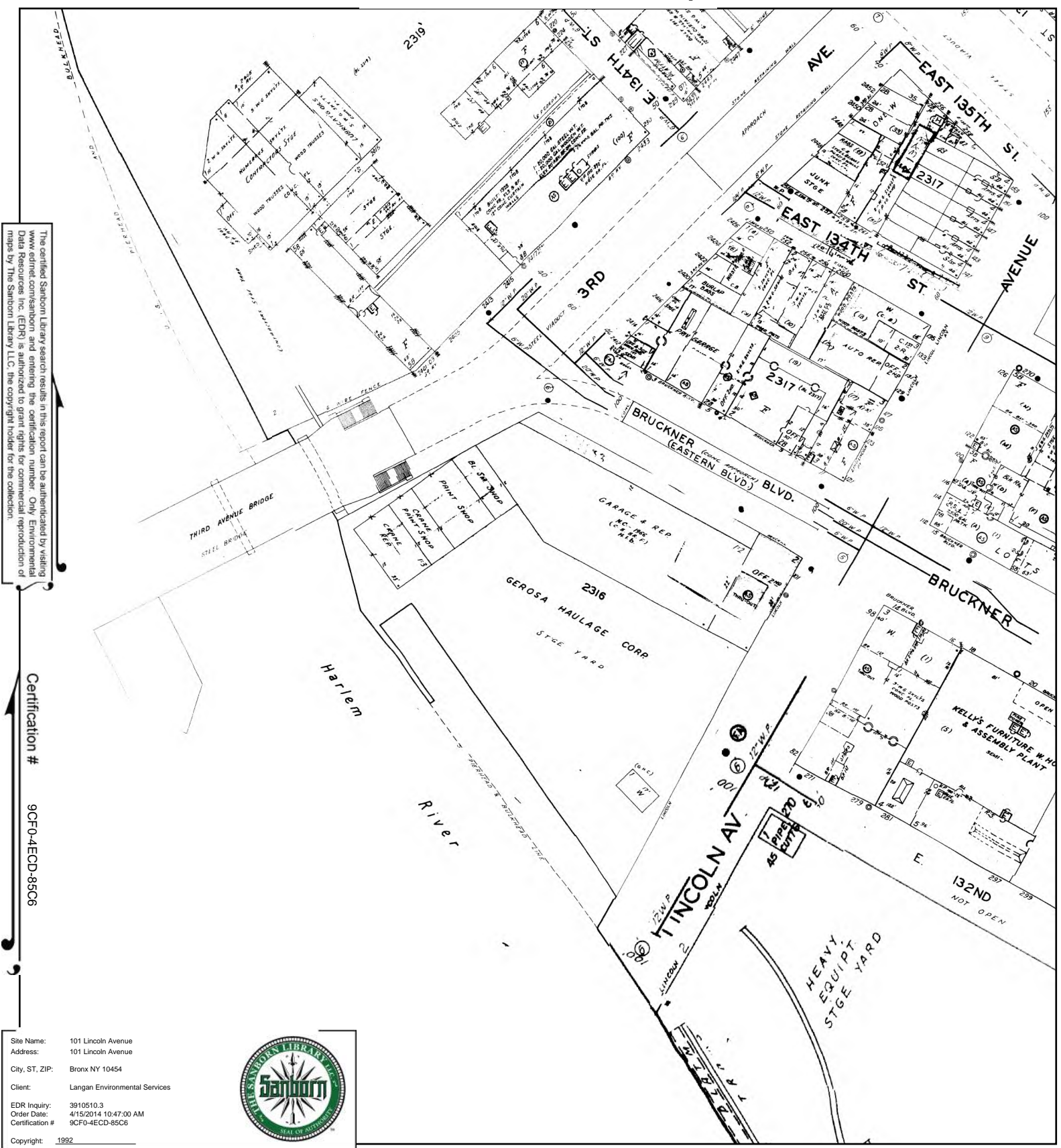




# 1992 Certified Sanborn Map

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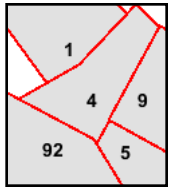
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Site Name: 101 Lincoln Avenue  
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- Volume 9S, Sheet 1
- Volume 9S, Sheet 4
- Volume 9S, Sheet 5
- Volume 9S, Sheet 9



# 1991 Certified Sanborn Map

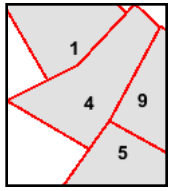
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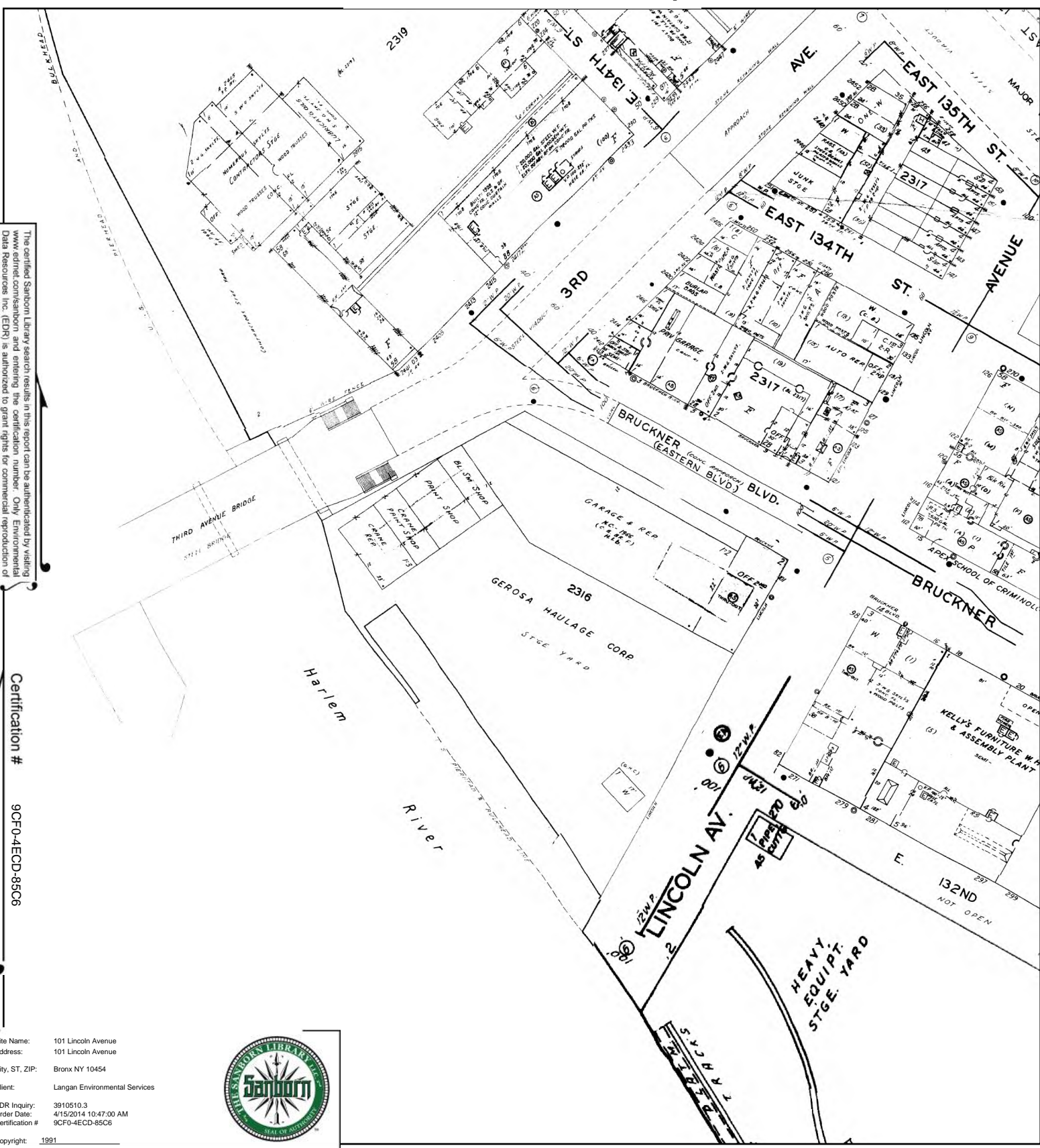
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 Address: 101 Lincoln Avenue  
 City, ST, ZIP: Bronx NY 10454  
 Client: Langan Environmental Services  
 EDR Inquiry: 3910510.3  
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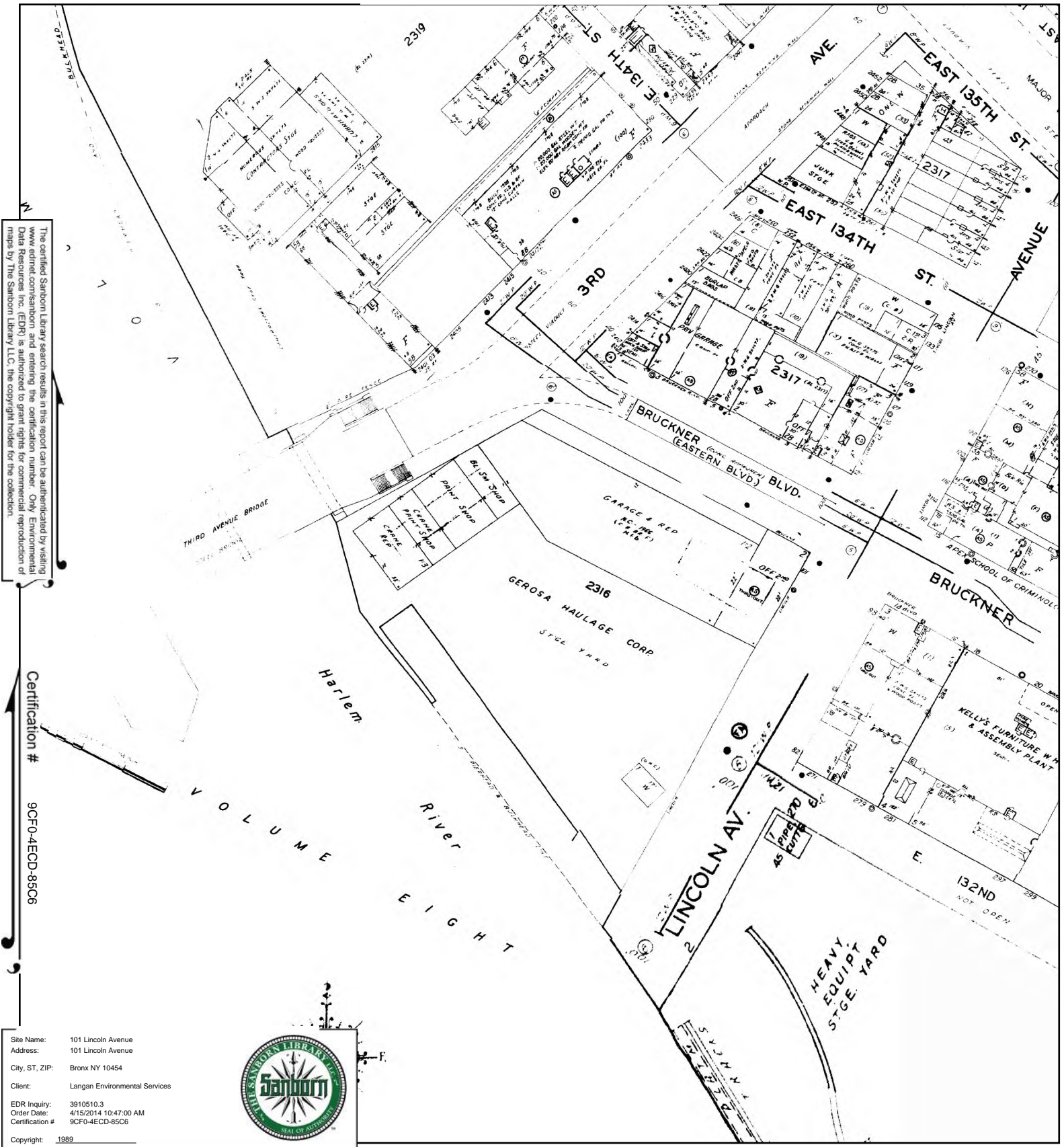


- Volume 9S, Sheet 1
- Volume 9S, Sheet 4
- Volume 9S, Sheet 5
- Volume 9S, Sheet 9





# 1989 Certified Sanborn Map



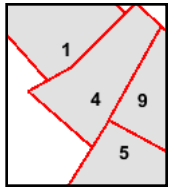
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# 1986 Certified Sanborn Map

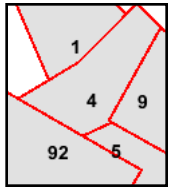
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- Volume 9S, Sheet 9
- Volume 8N, Sheet 92





# 1984 Certified Sanborn Map

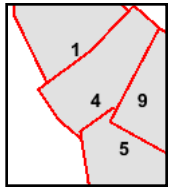
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1984



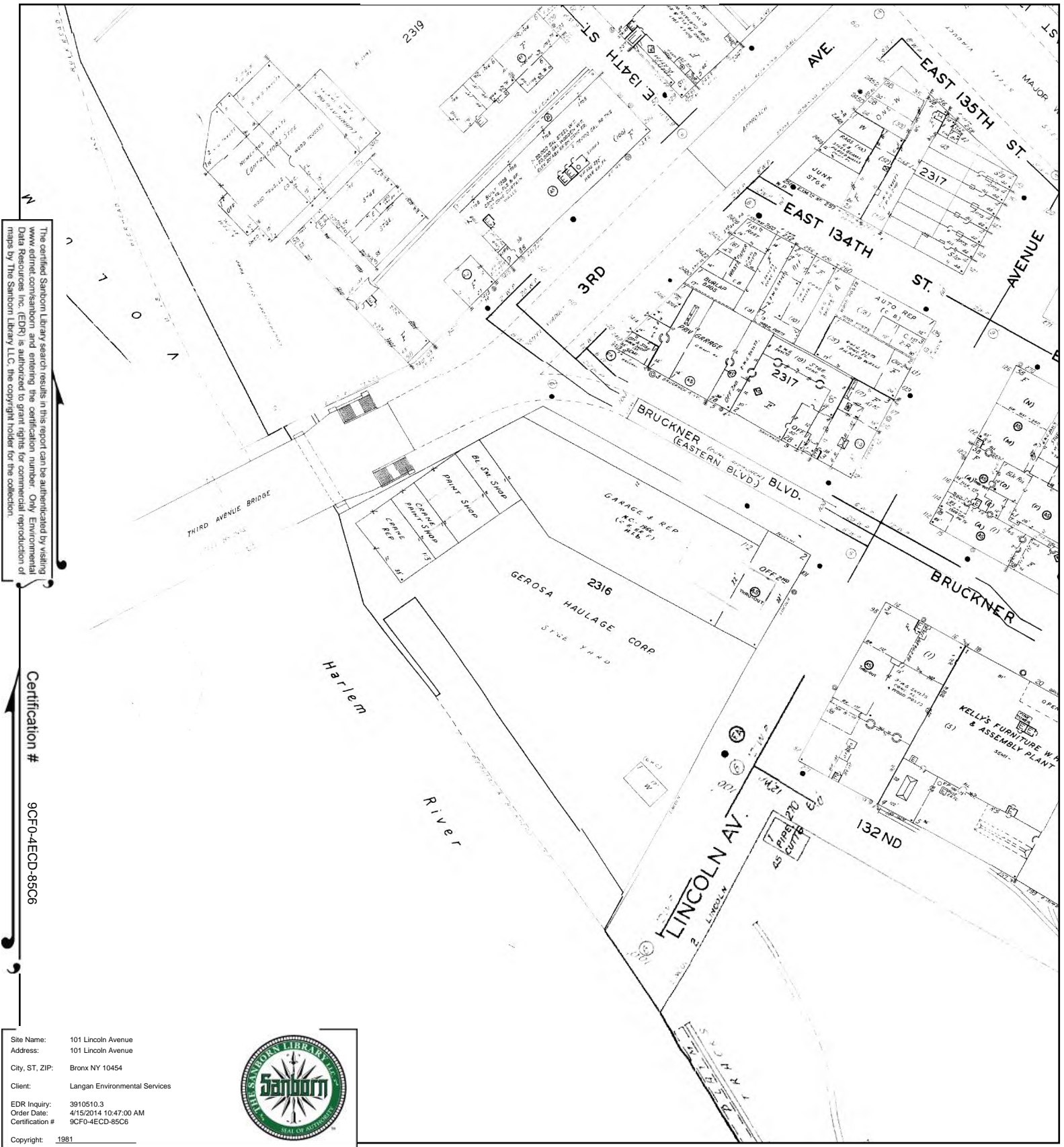
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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9



# 1981 Certified Sanborn Map



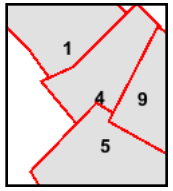
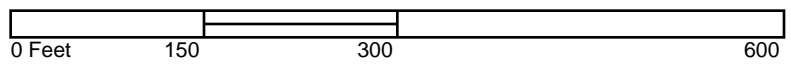
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# 1980 Certified Sanborn Map

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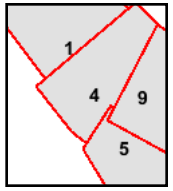
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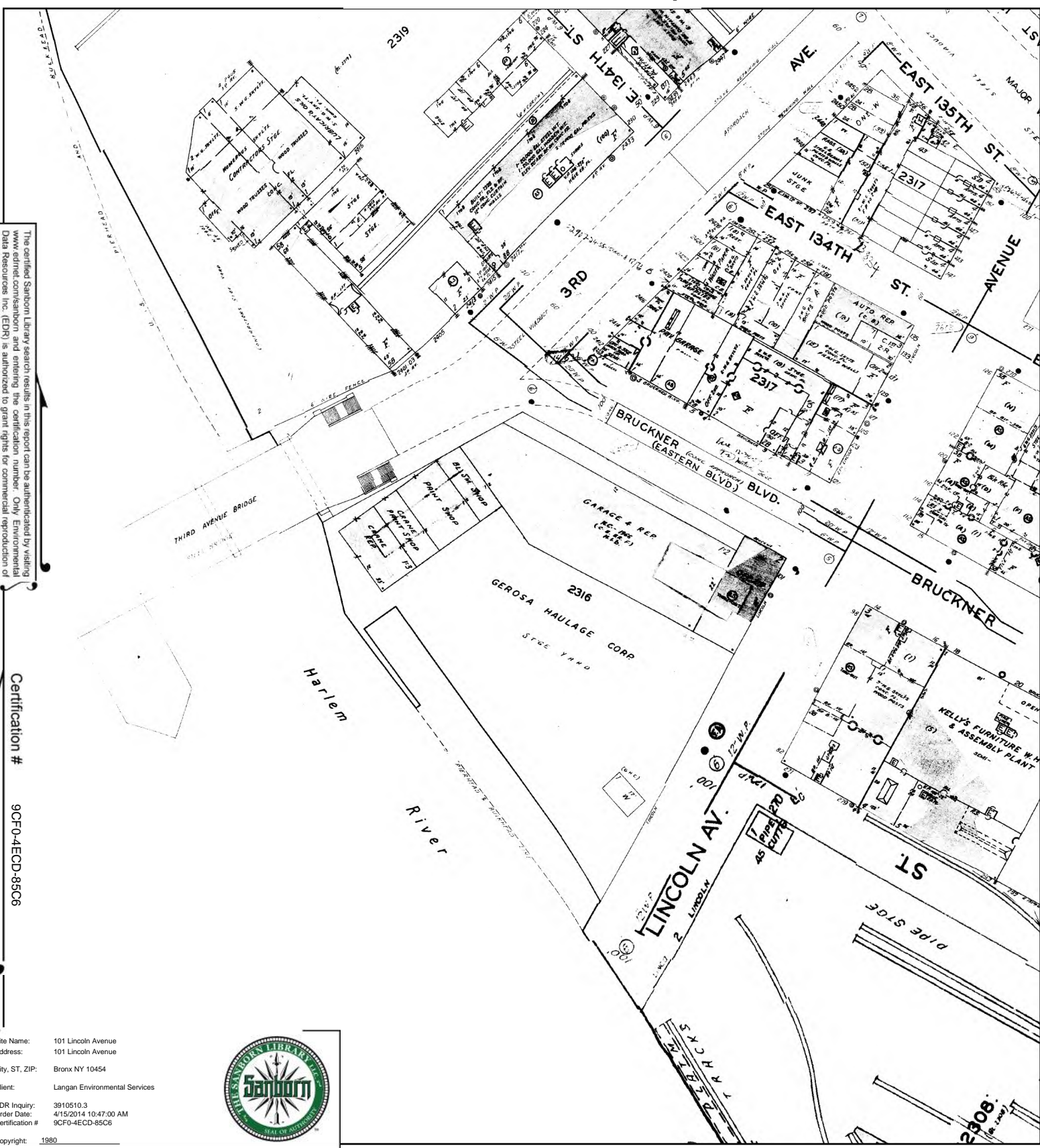


Copyright: 1980

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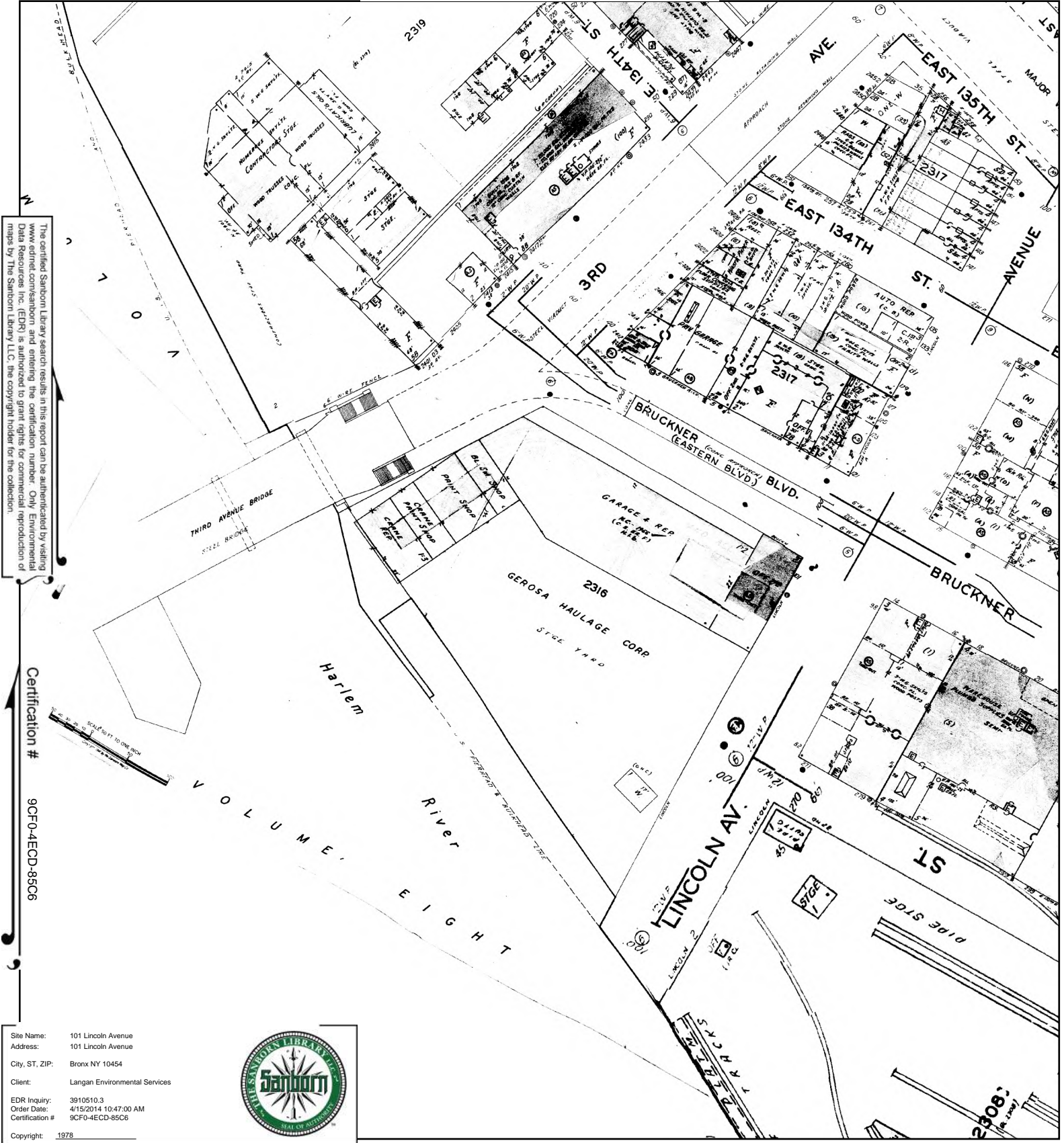


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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9





# 1978 Certified Sanborn Map



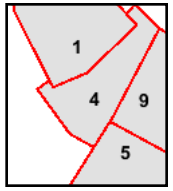
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 Copyright: 1978



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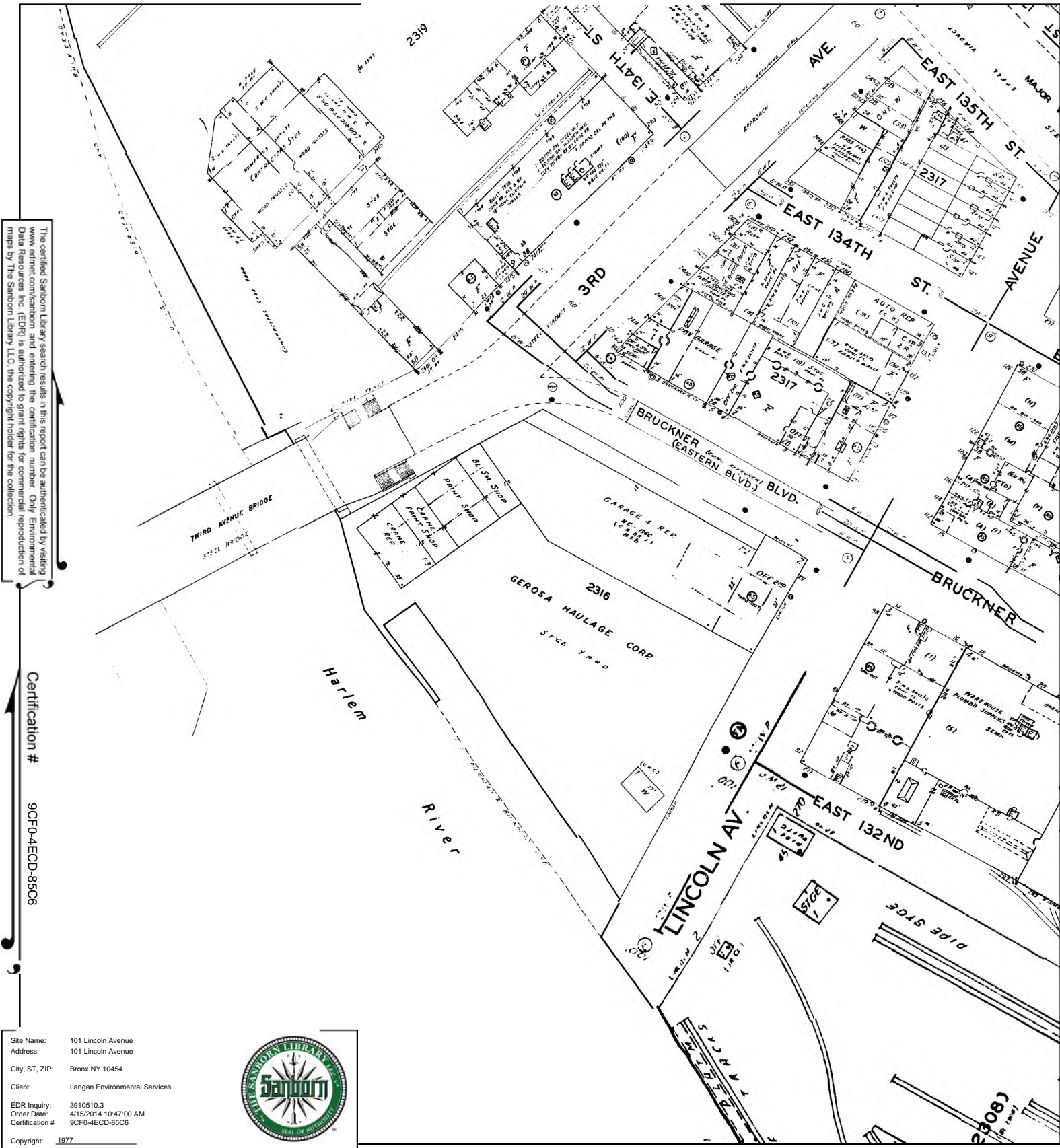


- Volume 9S, Sheet 4
- Volume 9S, Sheet 5
- Volume 9S, Sheet 9
- Volume 9S, Sheet 1





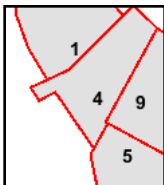
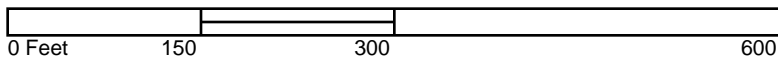
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# 1969 Certified Sanborn Map

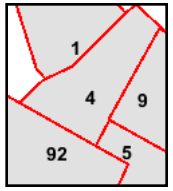
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 Order Date: 4/15/2014 10:47:00 AM  
 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1969



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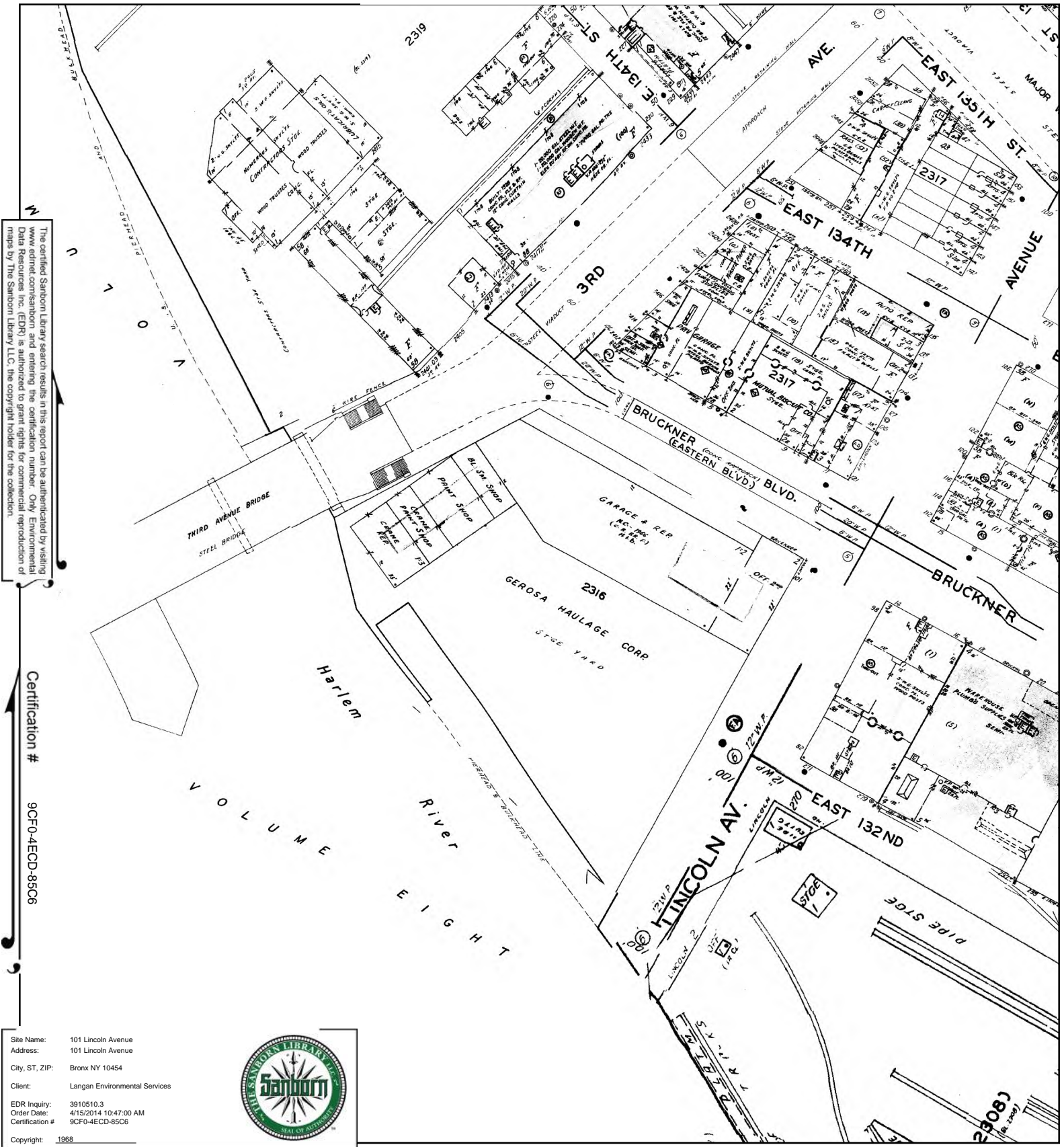


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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9
- Volume 8N, Sheet 92





# 1968 Certified Sanborn Map



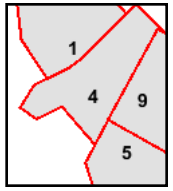
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 Copyright: 1968



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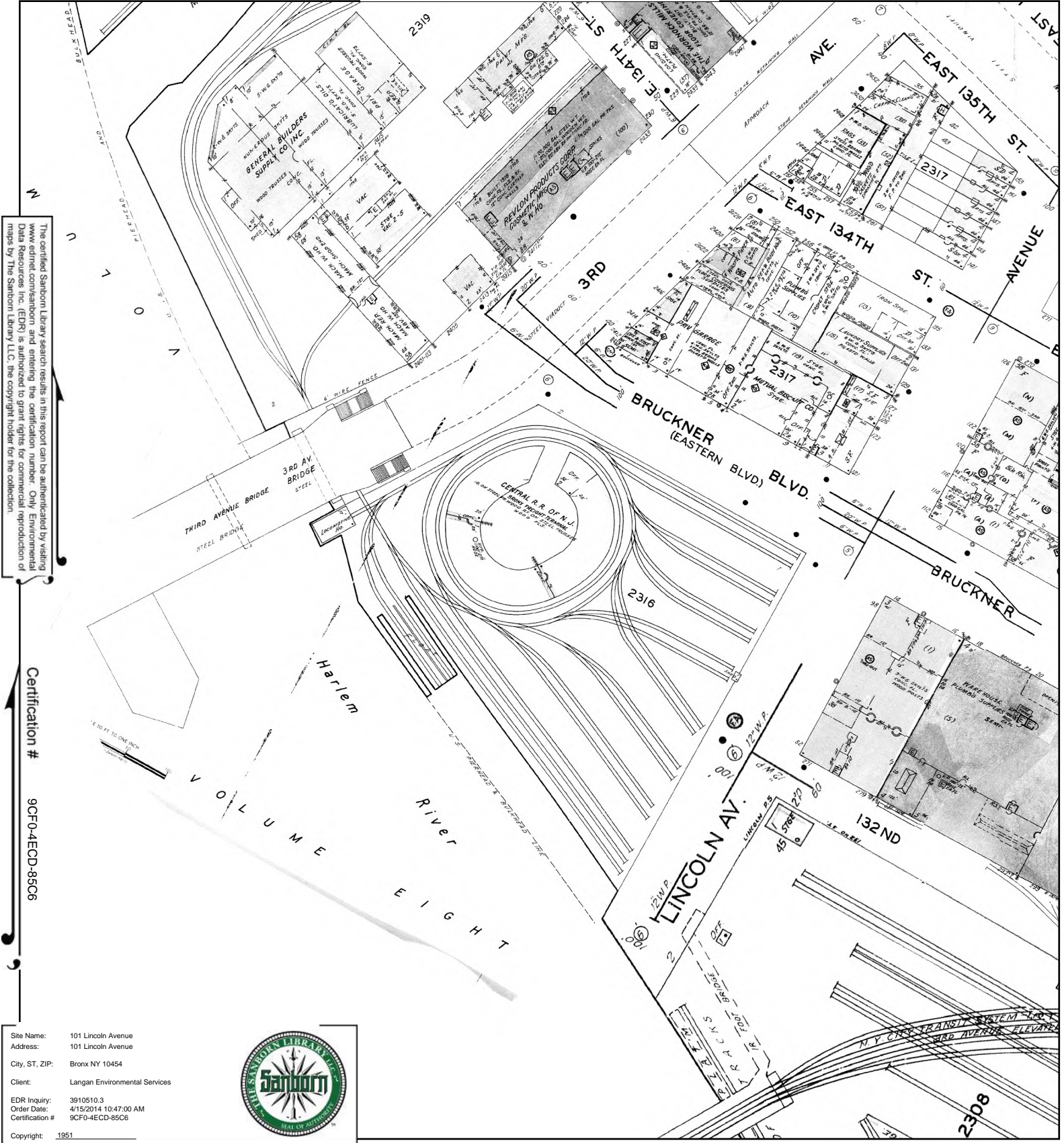


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- Volume 9S, Sheet 9





# 1951 Certified Sanborn Map



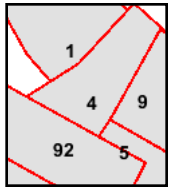
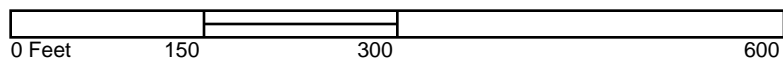
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1951



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# 1947 Certified Sanborn Map

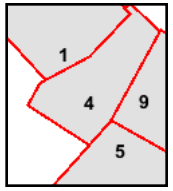
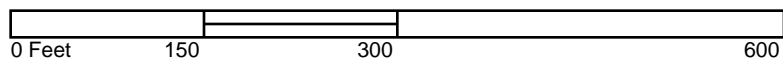
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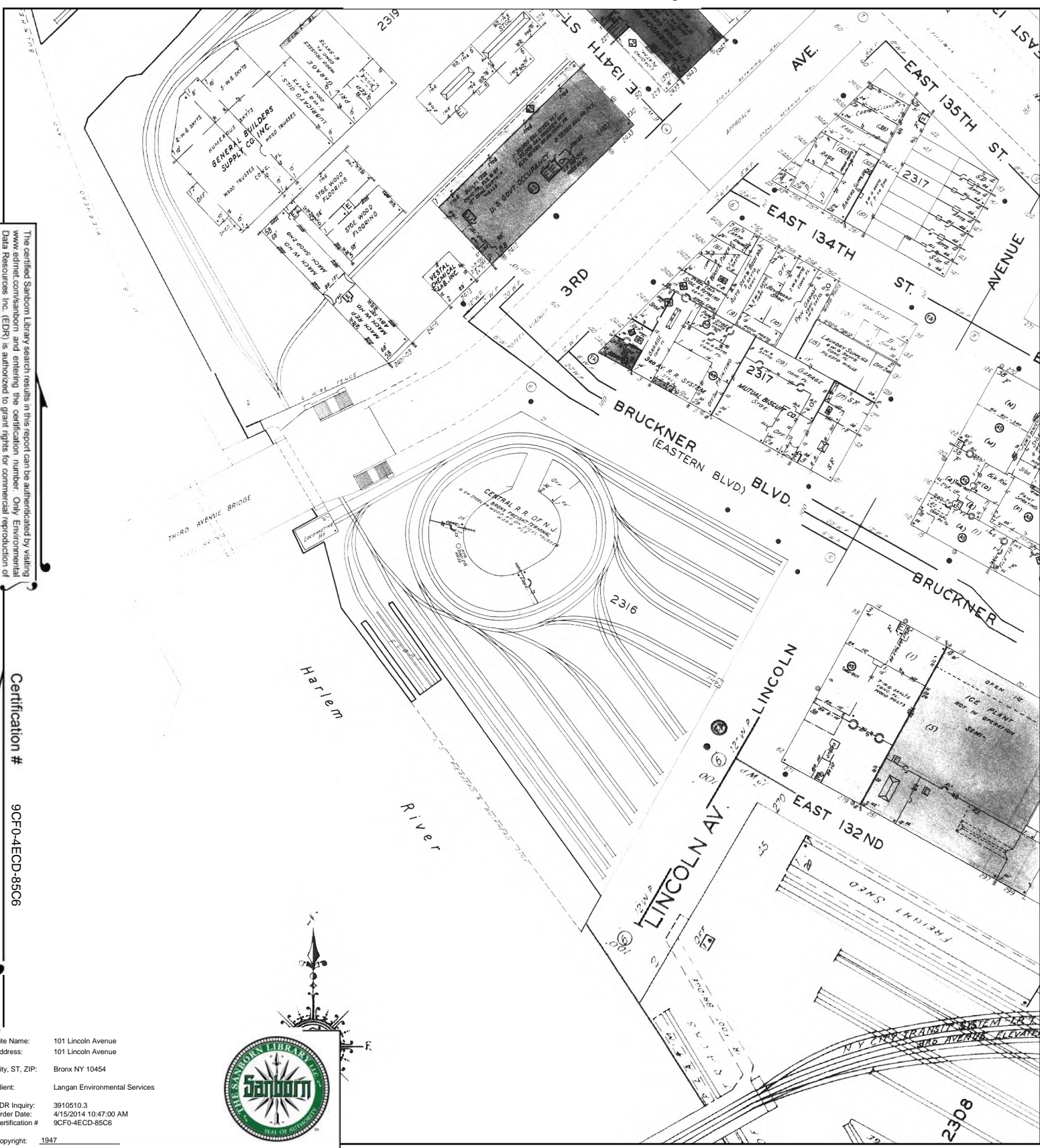
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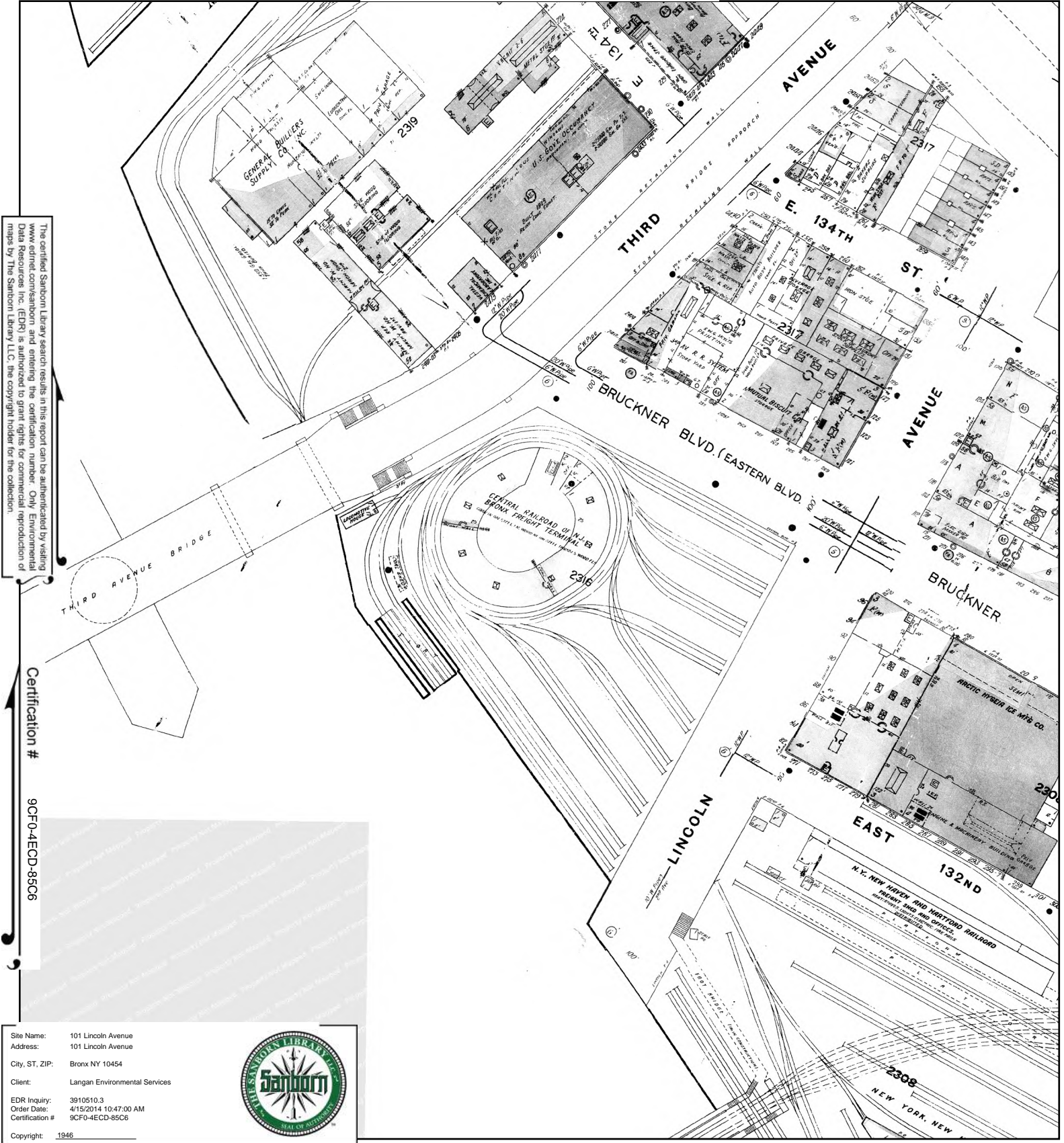


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- Volume 9S, Sheet 5
- Volume 9S, Sheet 9





# 1946 Certified Sanborn Map



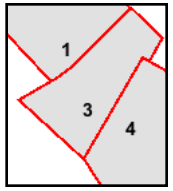
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 Copyright: 1946



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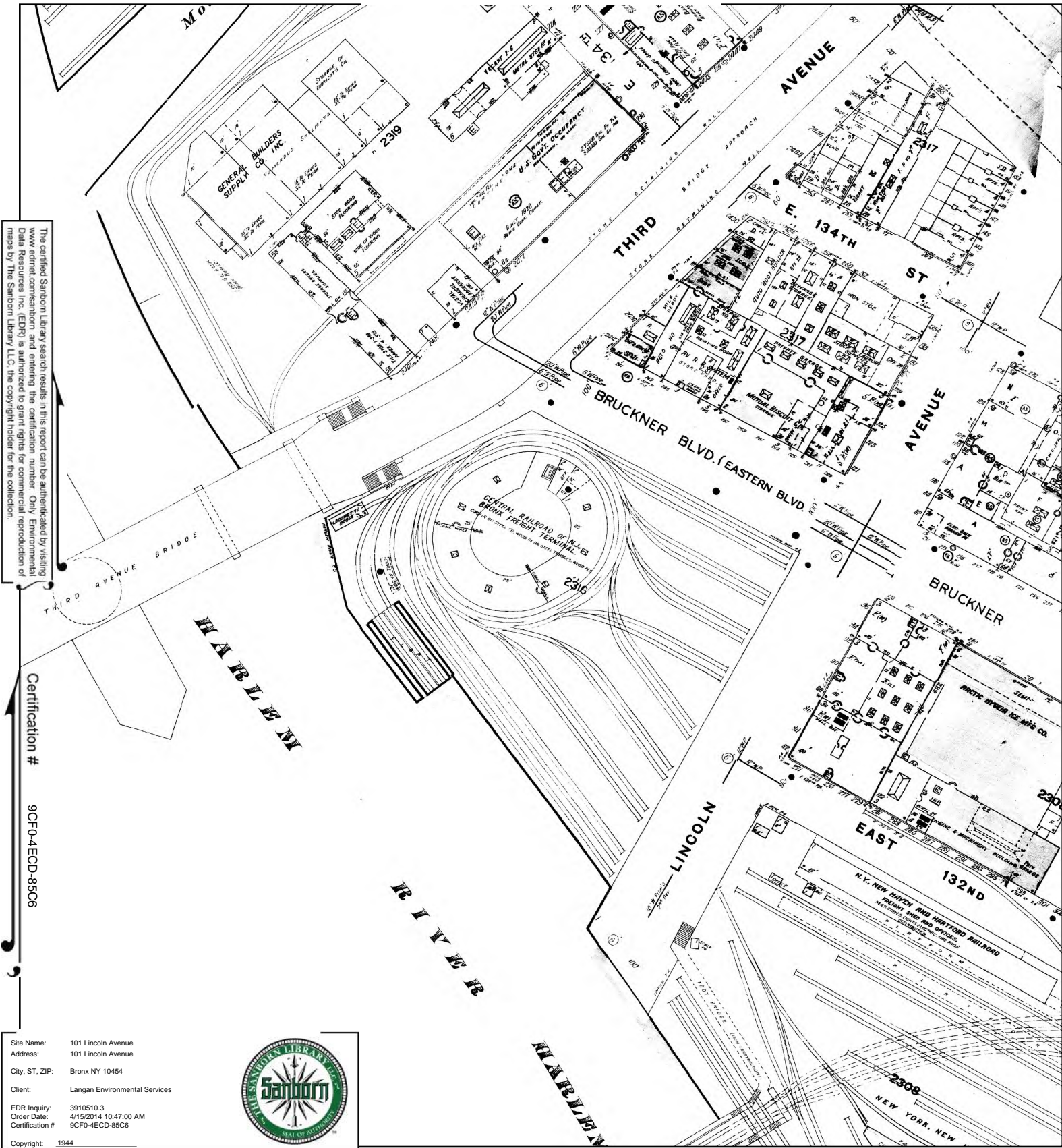


Volume 9, Sheet 1  
 Volume 9, Sheet 3  
 Volume 9, Sheet 4





# 1944 Certified Sanborn Map



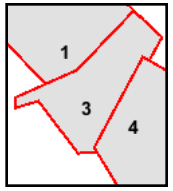
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 Copyright: 1944



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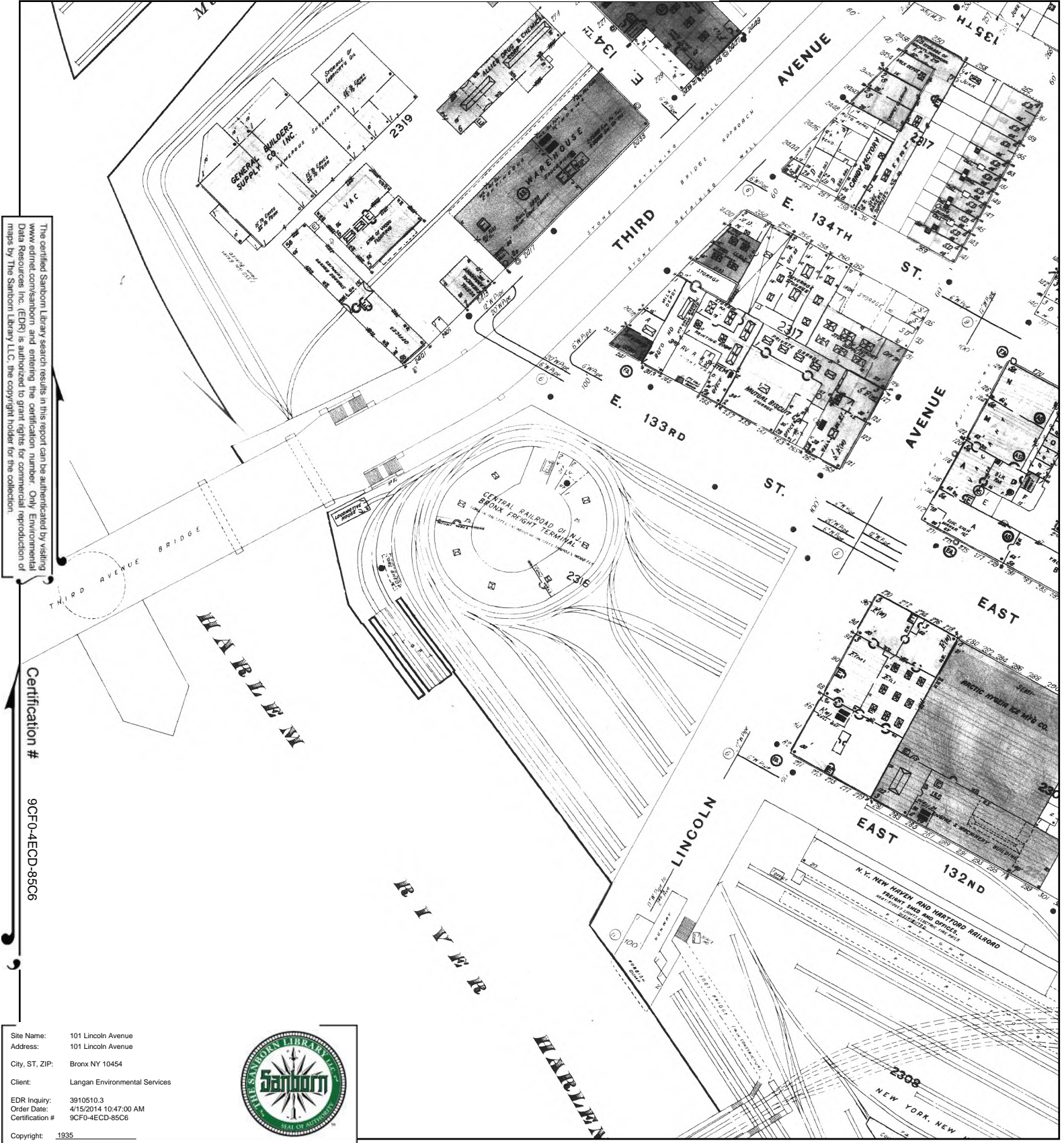


Volume 9, Sheet 1  
 Volume 9, Sheet 3  
 Volume 9, Sheet 4





# 1935 Certified Sanborn Map



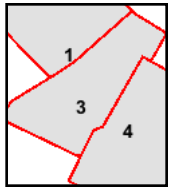
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1935



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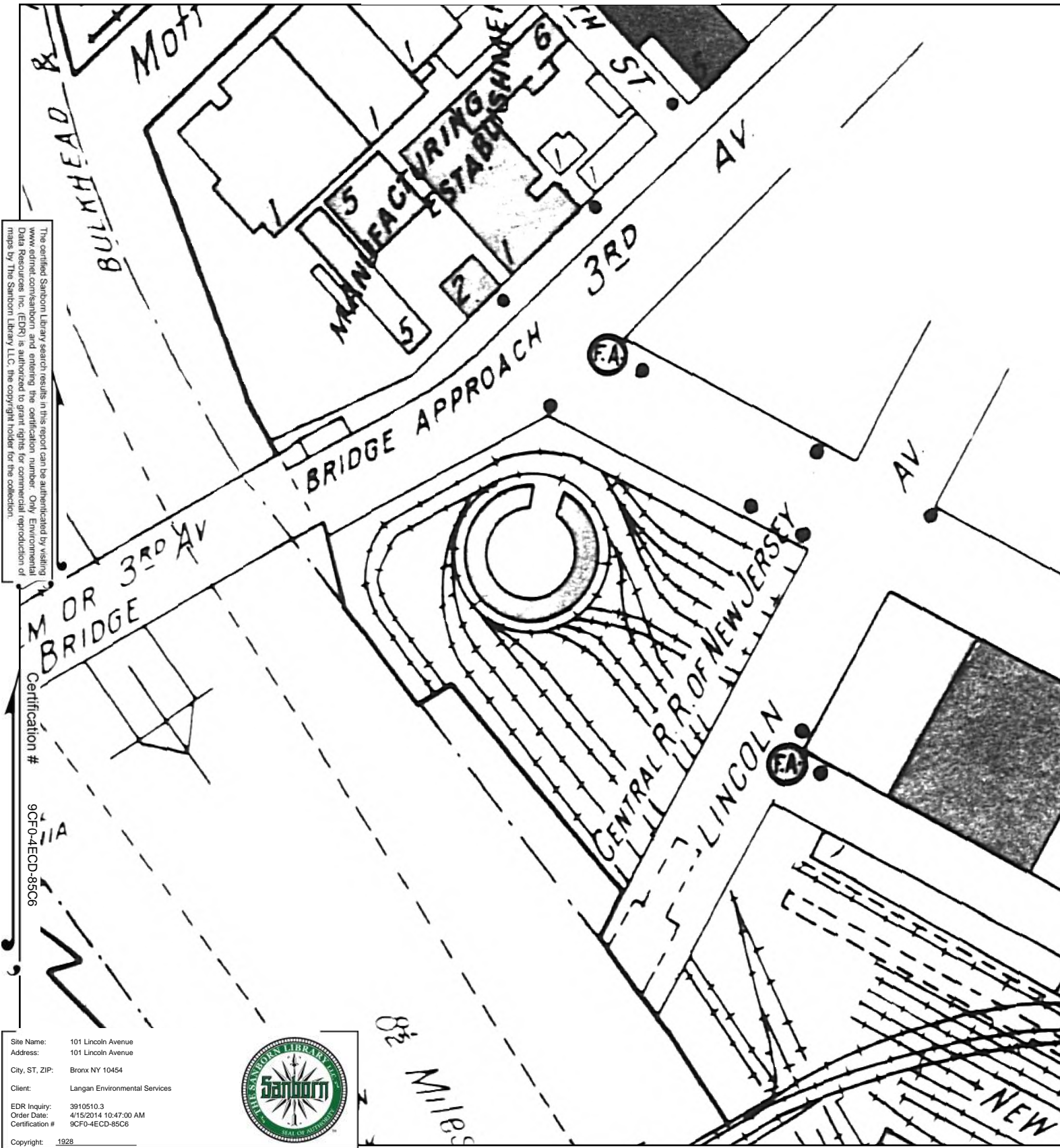


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# 1928 Certified Sanborn Map



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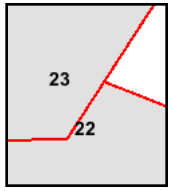
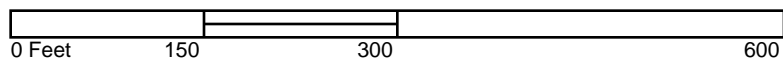
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Site Name: 101 Lincoln Avenue  
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 Order Date: 4/15/2014 10:47:00 AM  
 Certification # 9CF0-4ECD-85C6  
 Copyright: 1928



0.2 Miles

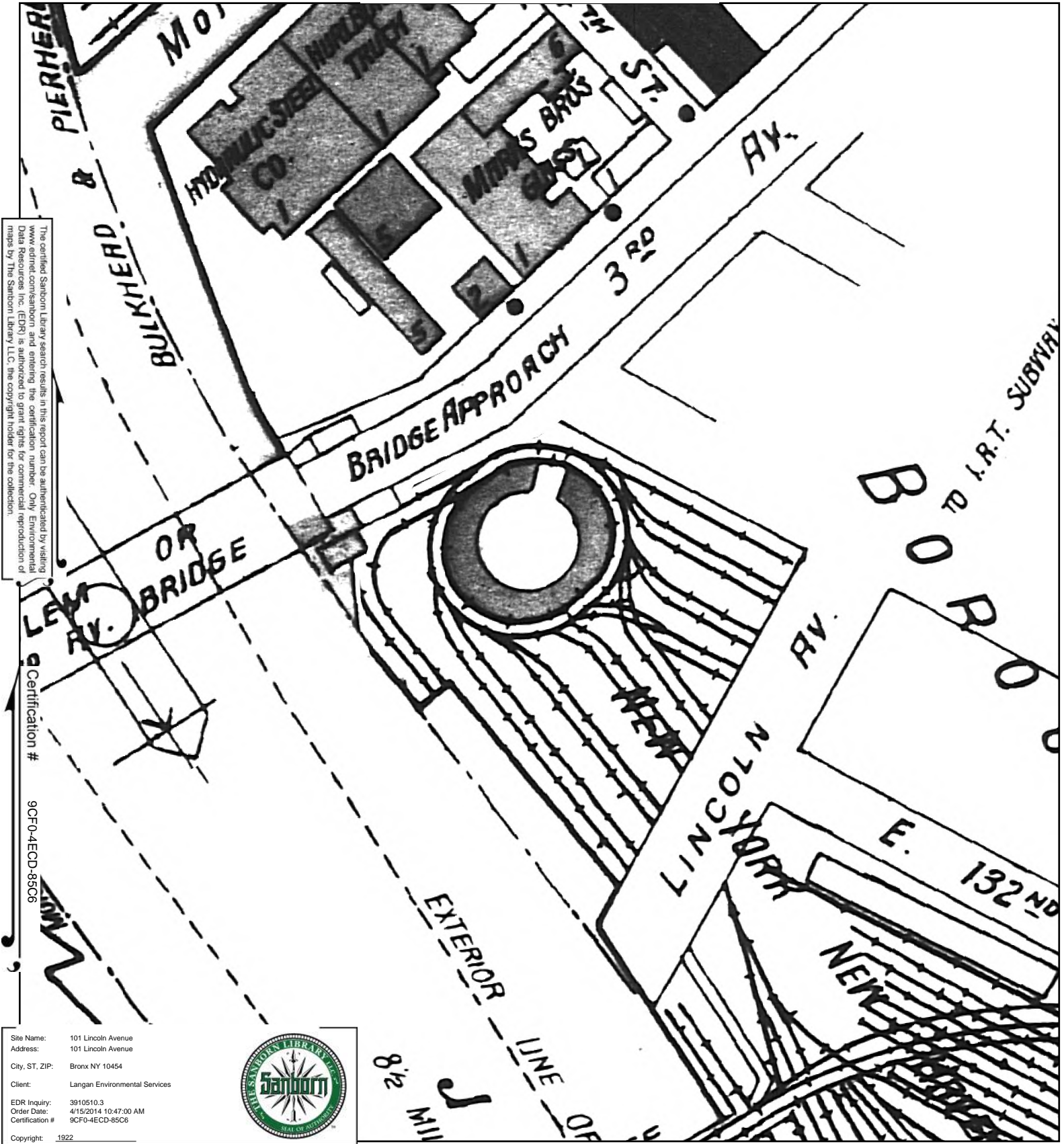
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Volume Pier Maps, Sheet 22  
 Volume Pier Maps, Sheet 23



# 1922 Certified Sanborn Map



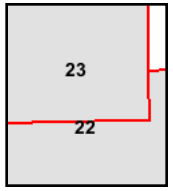
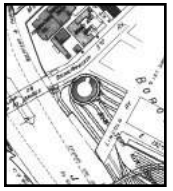
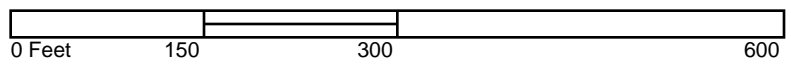
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1922



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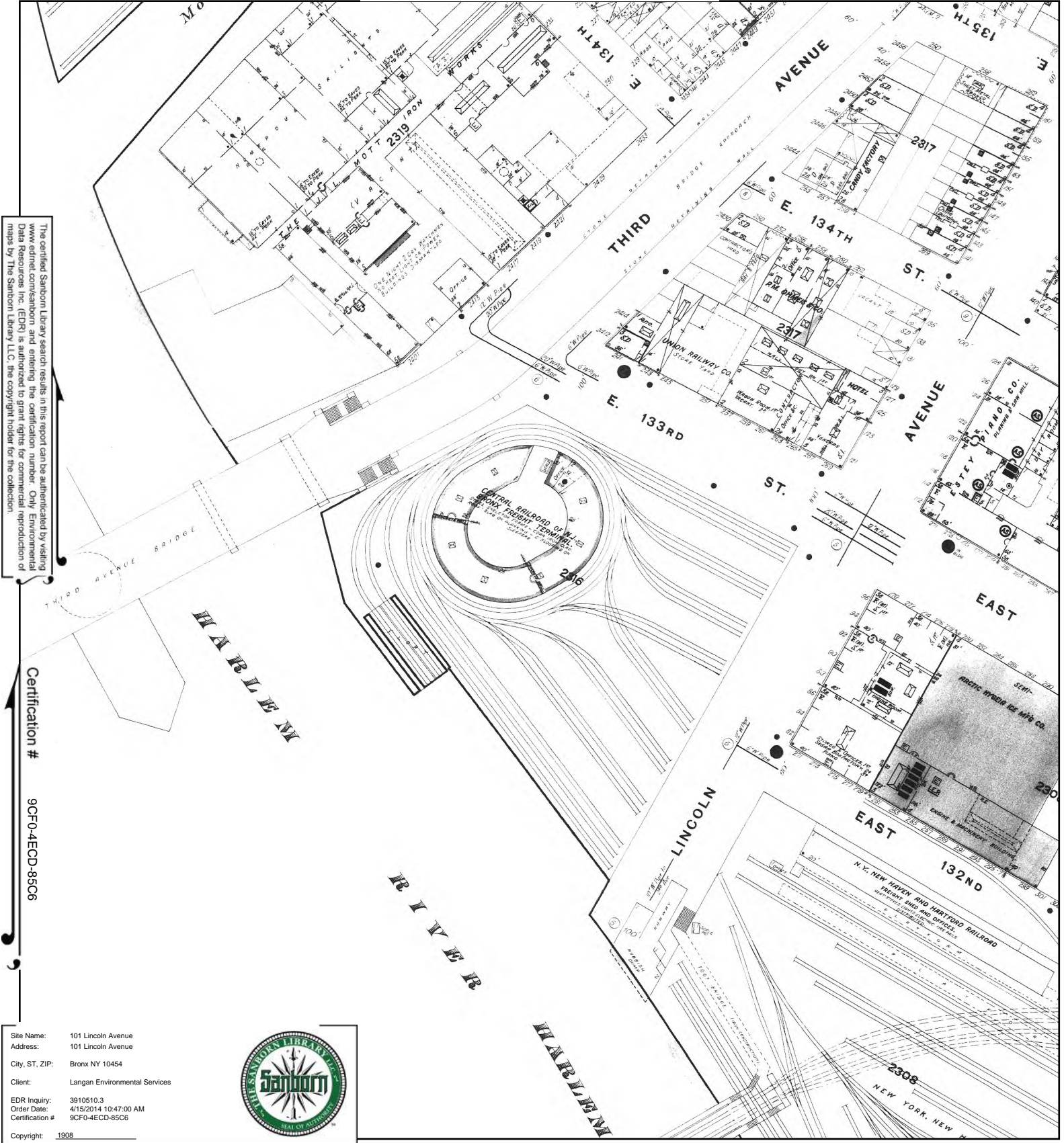


Volume Pier Maps, Sheet 22  
 Volume Pier Maps, Sheet 23





# 1908 Certified Sanborn Map



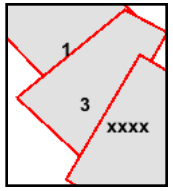
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 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1908



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Volume 9, Sheet 1  
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 Volume 9, Sheet xxxx



# 1903 Certified Sanborn Map

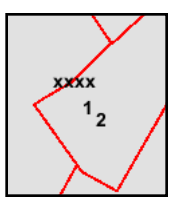
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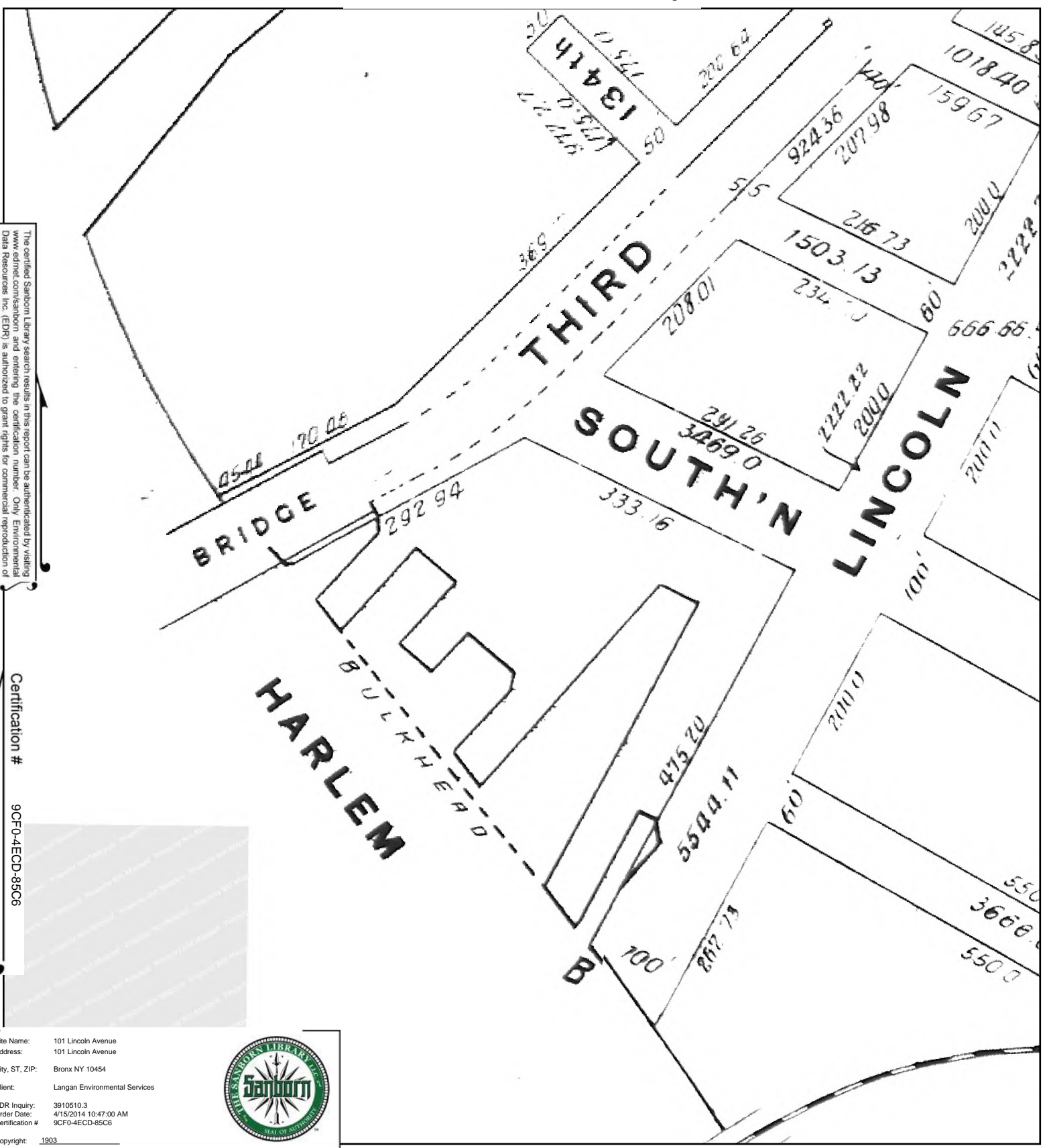
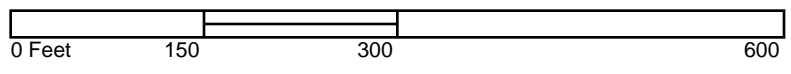
Site Name: 101 Lincoln Avenue  
 Address: 101 Lincoln Avenue  
 City, ST, ZIP: Bronx NY 10454  
 Client: Langan Environmental Services  
 EDR Inquiry: 3910510.3  
 Order Date: 4/15/2014 10:47:00 AM  
 Certification # 9CF0-4ECD-85C6  
 Copyright: 1903



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.

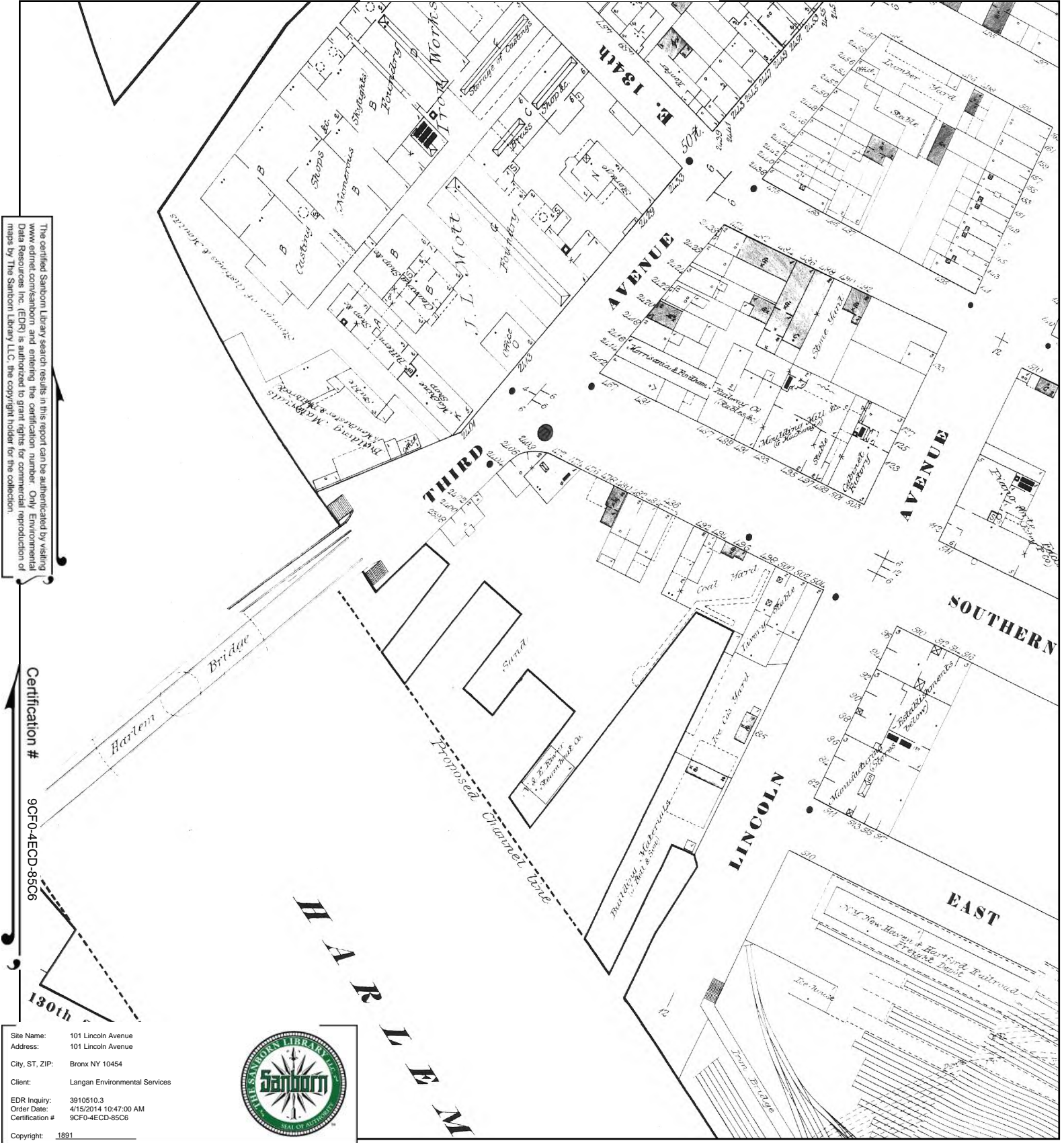


- Volume Atlas Maps, Sheet xxxx
- Volume Atlas Maps, Sheet 1
- Volume Atlas Maps, Sheet xxxx
- Volume Atlas Maps, Sheet 2





# 1891 Certified Sanborn Map



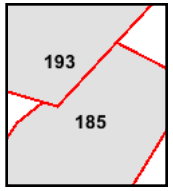
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Certification # 9CF0-4ECD-85C6

Site Name: 101 Lincoln Avenue  
 Address: 101 Lincoln Avenue  
 City, ST, ZIP: Bronx NY 10454  
 Client: Langan Environmental Services  
 EDR Inquiry: 3910510.3  
 Order Date: 4/15/2014 10:47:00 AM  
 Certification #: 9CF0-4ECD-85C6  
 Copyright: 1891



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 9, Sheet 193  
 Volume 9, Sheet 185



## **APPENDIX L**

### **Historical USGS Topographic Quadrangle Maps Summary**



**101 Lincoln Avenue**

101 Lincoln Avenue  
Bronx, NY 10454

Inquiry Number: 3910510.4

April 15, 2014

## EDR Historical Topographic Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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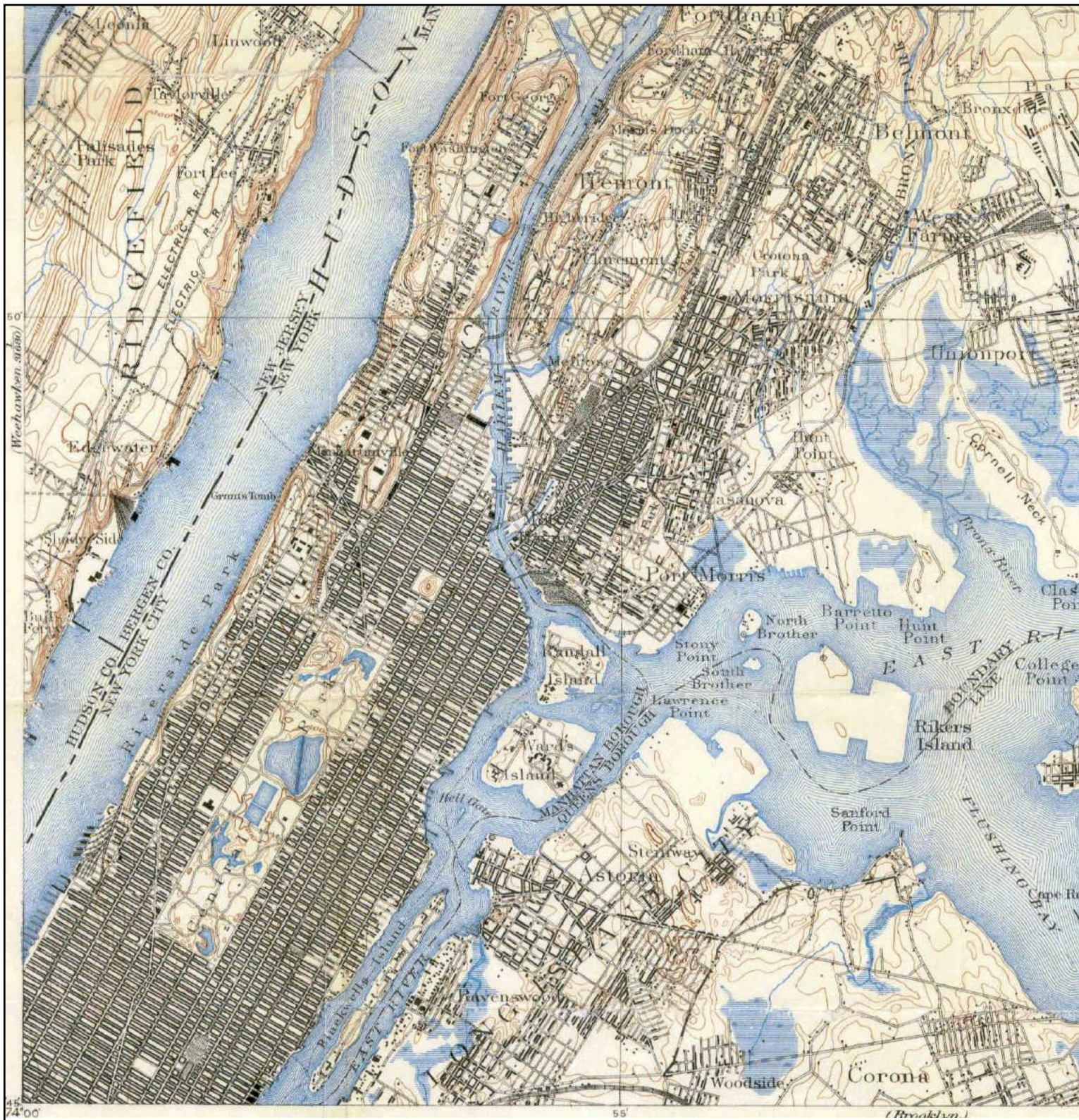
This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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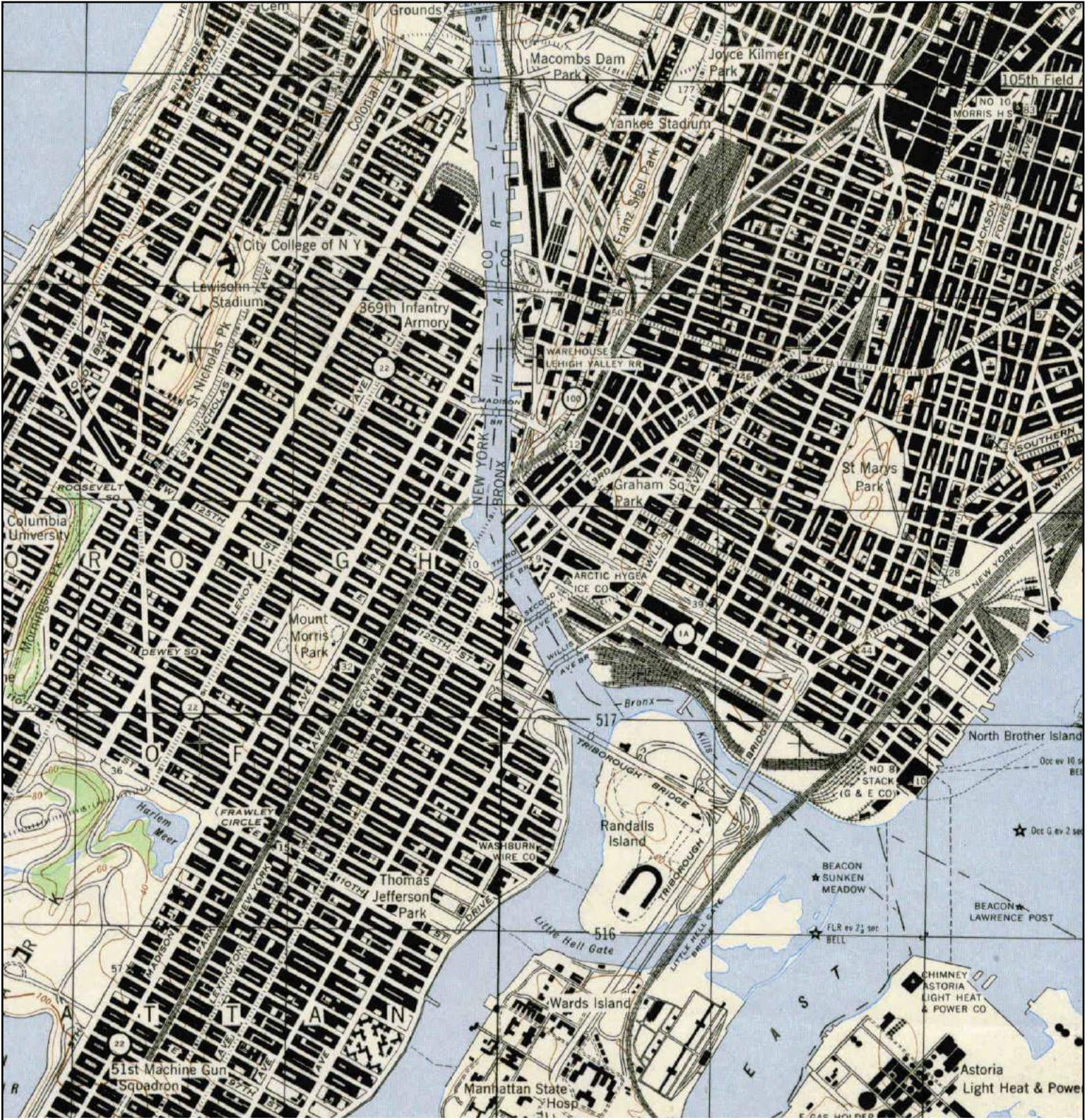
# Historical Topographic Map




<p>N ↑</p>	<p><b>TARGET QUAD</b>                  NAME: HARLEM                  MAP YEAR: 1897</p>	<p><b>SITE NAME:</b> 101 Lincoln Avenue  <b>ADDRESS:</b> 101 Lincoln Avenue                  Bronx, NY 10454  <b>LAT/LONG:</b> 40.8076 / -73.9308</p>	<p><b>CLIENT:</b> Langan Environmental Services  <b>CONTACT:</b> David Granucci  <b>INQUIRY#:</b> 3910510.4  <b>RESEARCH DATE:</b> 04/15/2014</p>
	<p><b>SERIES:</b> 15  <b>SCALE:</b> 1:62500</p>		



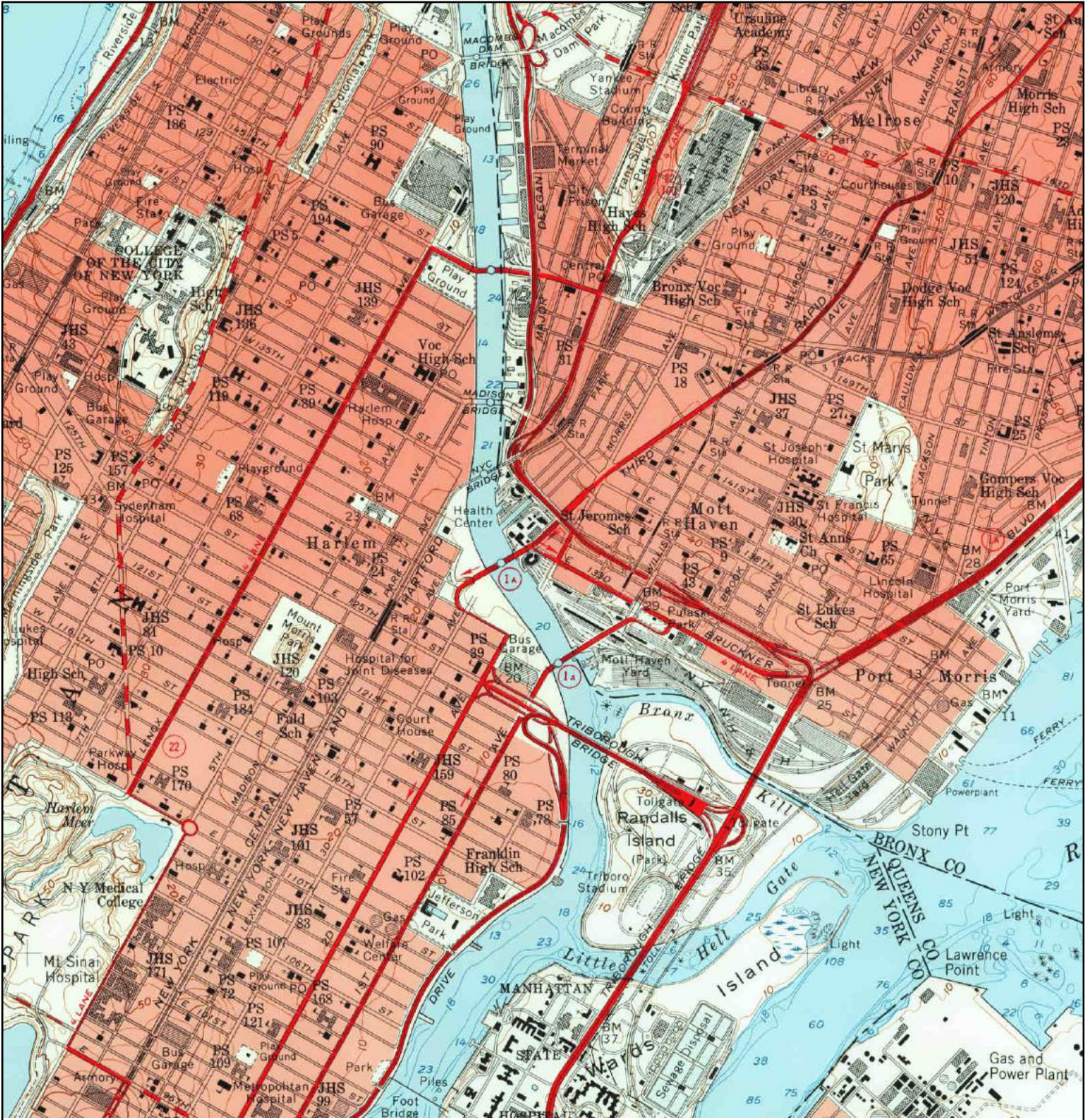
# Historical Topographic Map



<b>N</b> 	<b>TARGET QUAD</b> NAME: CENTRAL PARK MAP YEAR: 1947	SITE NAME: 101 Lincoln Avenue ADDRESS: 101 Lincoln Avenue Bronx, NY 10454 LAT/LONG: 40.8076 / -73.9308	CLIENT: Langan Environmental Services CONTACT: David Granucci INQUIRY#: 3910510.4 RESEARCH DATE: 04/15/2014
	SERIES: 7.5 SCALE: 1:25000		



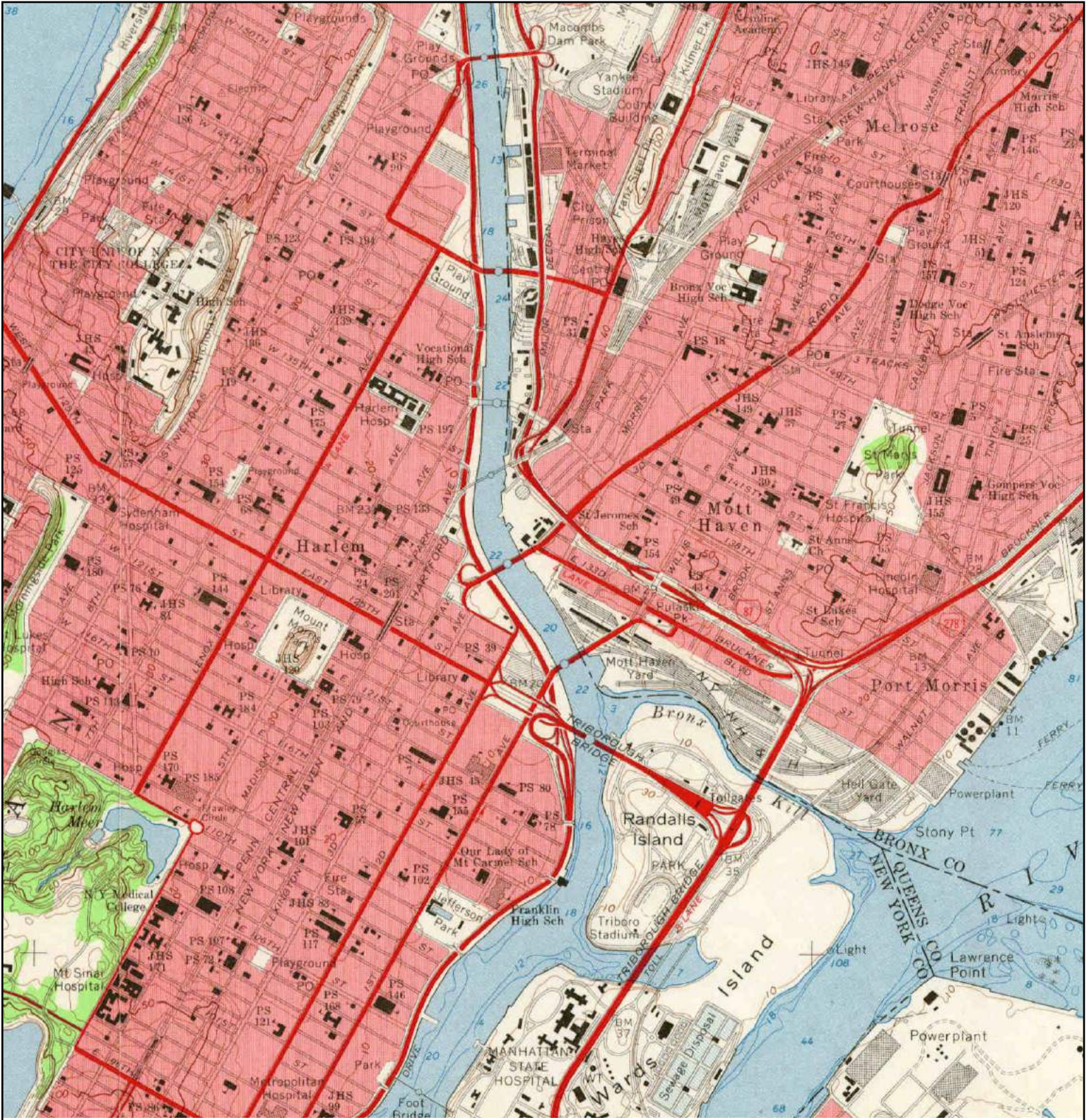
# Historical Topographic Map



	<b>TARGET QUAD</b>	<b>SITE NAME:</b> 101 Lincoln Avenue	<b>CLIENT:</b> Langan Environmental Services
	NAME: CENTRAL PARK	<b>ADDRESS:</b> 101 Lincoln Avenue	<b>CONTACT:</b> David Granucci
	MAP YEAR: 1956	Bronx, NY 10454	<b>INQUIRY#:</b> 3910510.4
		<b>LAT/LONG:</b> 40.8076 / -73.9308	<b>RESEARCH DATE:</b> 04/15/2014
	<b>SERIES:</b> 7.5		
<b>SCALE:</b> 1:24000			



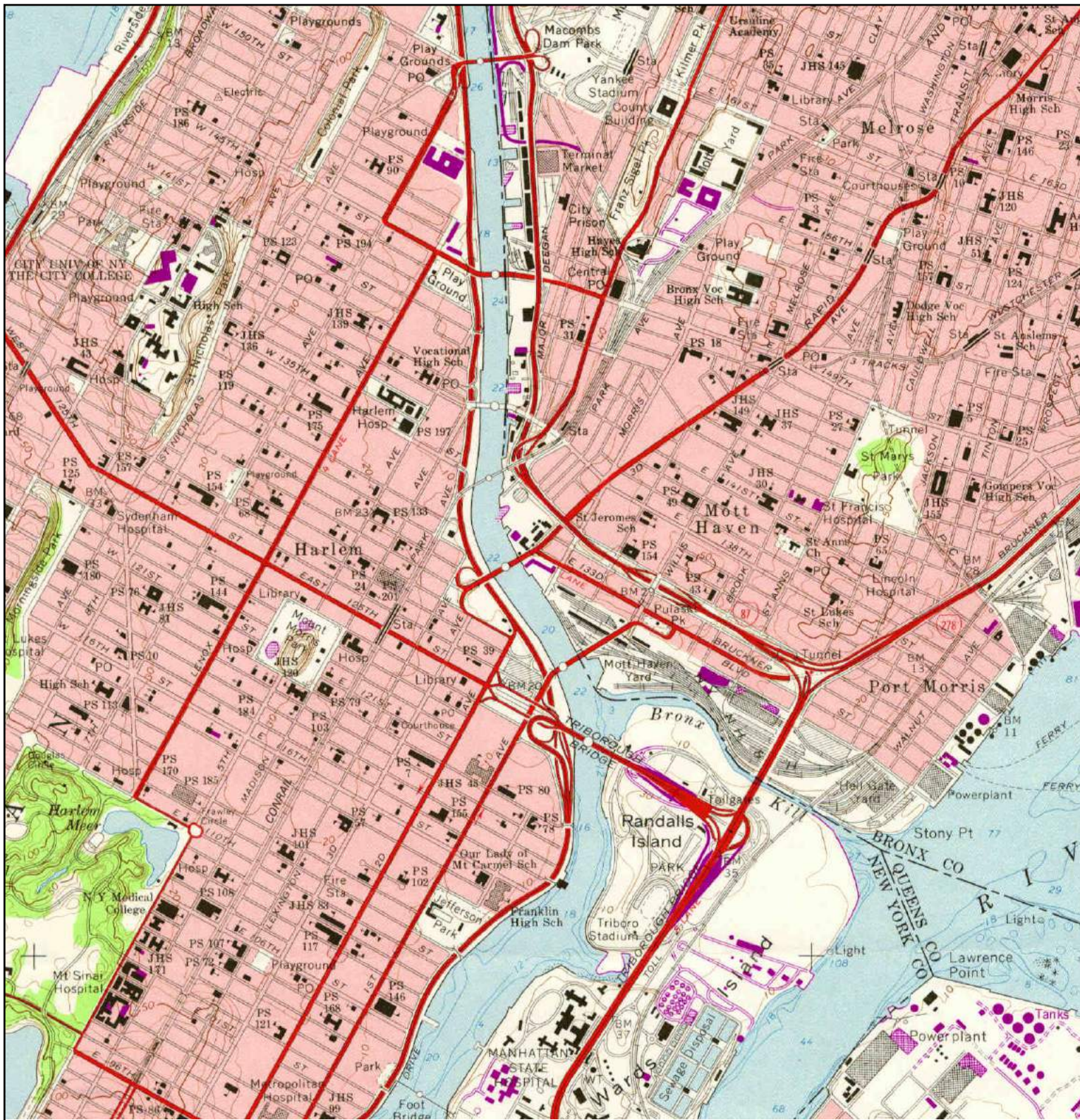
# Historical Topographic Map



<p>N ↑</p>	<p><b>TARGET QUAD</b>                  NAME: CENTRAL PARK                  MAP YEAR: 1966</p>	<p><b>SITE NAME:</b> 101 Lincoln Avenue  <b>ADDRESS:</b> 101 Lincoln Avenue                  Bronx, NY 10454  <b>LAT/LONG:</b> 40.8076 / -73.9308</p>	<p><b>CLIENT:</b> Langan Environmental Services  <b>CONTACT:</b> David Granucci  <b>INQUIRY#:</b> 3910510.4  <b>RESEARCH DATE:</b> 04/15/2014</p>
	<p><b>SERIES:</b> 7.5  <b>SCALE:</b> 1:24000</p>		



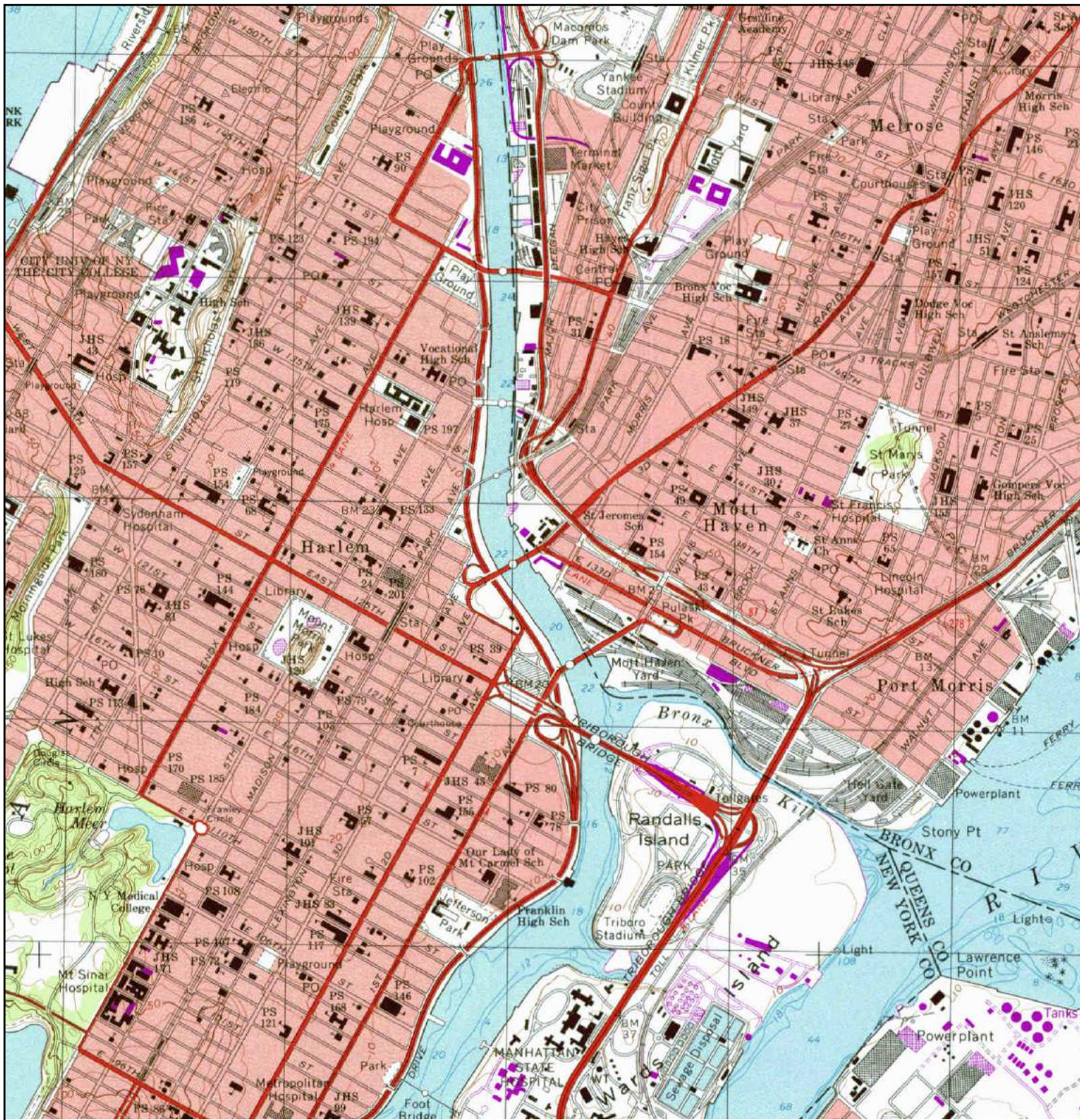
# Historical Topographic Map



<p>N ↑</p>	<b>TARGET QUAD</b>	<b>SITE NAME:</b> 101 Lincoln Avenue	<b>CLIENT:</b> Langan Environmental Services
	<b>NAME:</b> CENTRAL PARK	<b>ADDRESS:</b> 101 Lincoln Avenue	<b>CONTACT:</b> David Granucci
	<b>MAP YEAR:</b> 1979	<b>BRONX, NY 10454</b>	<b>INQUIRY#:</b> 3910510.4
	<b>PHOTOREVISED FROM :</b> 1966	<b>LAT/LONG:</b> 40.8076 / -73.9308	<b>RESEARCH DATE:</b> 04/15/2014
	<b>SERIES:</b> 7.5		
	<b>SCALE:</b> 1:24000		



# Historical Topographic Map



<p>N ↑</p>	<p><b>TARGET QUAD</b>                  NAME: CENTRAL PARK                  MAP YEAR: 1995</p>	<p><b>SITE NAME:</b> 101 Lincoln Avenue  <b>ADDRESS:</b> 101 Lincoln Avenue                  Bronx, NY 10454  <b>LAT/LONG:</b> 40.8076 / -73.9308</p>	<p><b>CLIENT:</b> Langan Environmental Services  <b>CONTACT:</b> David Granucci  <b>INQUIRY#:</b> 3910510.4  <b>RESEARCH DATE:</b> 04/15/2014</p>
	<p><b>SERIES:</b> 7.5  <b>SCALE:</b> 1:24000</p>		



## **APPENDIX M**

### **City Directory Abstract**

**101 Lincoln Avenue**

101 Lincoln Avenue  
Bronx, NY 10454

Inquiry Number: 3910510.5  
April 14, 2014

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
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with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1927 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	X	-	X	-
2008	Cole Information Services	X	X	X	-
2005	Hill-Donnelly Information Services	X	X	X	-
2000	Cole Information Services	X	-	X	-
1993	New York Telephone	X	X	X	-
1983	New York Telephone	X	X	X	-
1976	New York Telephone Company	X	X	X	-
1971	New York Telephone	X	-	X	-
1965	New York Telephone Company	X	X	X	-
1961	New York Telephone	-	X	X	-
1956	New York Telephone	-	X	X	-
1949	New York Telephone	-	X	X	-
1940	New York Telephone	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	-	-	-	-



# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

101 Lincoln Avenue  
Bronx, NY 10454

### FINDINGS DETAIL

Target Property research detail.

## LINCOLN AVE

### 101 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	GEROSA INCORPORATED	Cole Information Services
	STANDARD BUS MAINTENANCE	Cole Information Services
2008	FELIX INDUSTRIES	Cole Information Services
	GEROSA INC	Cole Information Services
2005	Gerosa Inc	Hill-Donnelly Information Services
2000	FELIX INDUSTRIES	Cole Information Services
	GEROSA INC	Cole Information Services
1993	GEROSA CRANE SVCE CO INC	New York Telephone
	GEROSA INC BRONX	New York Telephone
	GEROSA ROBERT L INC	New York Telephone
1983	GEROSA CRANE SVCE CO INC	New York Telephone
	GEROSA INCORPORATED	New York Telephone
1976	GEROSA CRANE SVCE CO INC	New York Telephone Company
	GEROSA INCORPORATED	New York Telephone Company
1971	GEROSA CRANE SVCE CO INC	New York Telephone
	GEROSA HAULAGE & WAREHOUSE CORP	New York Telephone

## LINCOLN PL

### 101 LINCOLN PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MCKINNEY CAREW L	New York Telephone Company

## FINDINGS

### LINCOLN RD

#### 101 LINCOLN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MASIA PHILIP	New York Telephone Company

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

#### LINCOLN AVE

##### 40 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	COURTNEYS EQUIPMENT INC	Cole Information Services
2005	Courtneys Equipment	Hill-Donnelly Information Services

##### 41 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Douglas Dennis Pe	Hill-Donnelly Information Services

##### 44 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1983	FAWN & FEDERAL VENDING MACHINES SALES	New York Telephone
	DEPEND A VERID EQUIPT CO	New York Telephone
	BILL & COIN CHANGERS BY HAMILTON	New York Telephone
	CO-OP VENDORS OF N Y	New York Telephone

##### 54 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MAROTTA BENNY	New York Telephone Company

##### 60 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MCCREA MICHL	New York Telephone Company

##### 69 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MECCARIELLO PASQUALE	New York Telephone Company

##### 72 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Mandi Max M tchr HS	Manhattan and Bronx Directory Publishing Company Residential Directory

## FINDINGS

### 75 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MCCANN FRANCES E	New York Telephone Company

### 76 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MERTENS TIMOTHY W	New York Telephone Company

### 77 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1993	YOUNG PEOPLES DAY CAMP INC STATEN ISLAND	New York Telephone

### 88 LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1961	AMER MIRROR WKS	New York Telephone
	BARNET MIRROR CORP	New York Telephone
	STITCHLESS BABY PANTS CO INC	New York Telephone
1956	AMER MIRROR WKS	New York Telephone
1949	AMER MIRROR WKS	New York Telephone
	COLUMBIA FIFTH AV INC	New York Telephone
	HARLEM COAL BODY SRCE CO	New York Telephone
	PEERLESS IRON WKS	New York Telephone
1940	Peerless Iron Wks	New York Telephone

### LINCOLN RD

#### 30 LINCOLN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1956	JACOBBER ARTHUR B	New York Telephone

#### 40 LINCOLN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MASS LAWRENCE C DDS OFC	New York Telephone Company
	MEEK DOROTHY L	New York Telephone Company
	MAY L C	New York Telephone Company

#### 57 LINCOLN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MENDELSONH ETTA MRS	New York Telephone Company

## FINDINGS

### 63 LINCOLN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	WINTER S SUMMER DAY CAMPS SCRSDL	New York Telephone Company

### 64 LINCOLN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MARTIN BARTHA MRS	New York Telephone Company
	MELNICK ABE	New York Telephone Company
	MERGEL HARRY	New York Telephone Company

### W LINCOLN AVE

#### 30 W LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MAIZES COLD N HUT	New York Telephone Company

#### 40 W LINCOLN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1940	Mt Vernon Charging Sta	New York Telephone

### W LINCOLN AVENUE

#### 30 W LINCOLN AVENUE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1961	MAIZIE S COLD N HUT	New York Telephone

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

#### Address Researched

101 Lincoln Avenue

#### Address Not Identified in Research Source

1961, 1956, 1949, 1940, 1931, 1927

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

#### Address Researched

30 LINCOLN RD

30 W LINCOLN AVE

30 W LINCOLN AVENUE

40 LINCOLN AVE

40 LINCOLN AVE

40 LINCOLN RD

40 W LINCOLN AVE

41 LINCOLN AVE

44 LINCOLN AVE

54 LINCOLN AVE

57 LINCOLN RD

60 LINCOLN AVE

63 LINCOLN RD

64 LINCOLN RD

69 LINCOLN AVE

72 LINCOLN AVE

75 LINCOLN AVE

#### Address Not Identified in Research Source

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927

2013, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927

2013, 2008, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

## FINDINGS

### Address Researched

76 LINCOLN AVE

77 LINCOLN AVE

88 LINCOLN AVE

### Address Not Identified in Research Source

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

2013, 2008, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1931, 1927

## **APPENDIX N**

### **Environmental Lien Search**



**101 Lincoln Avenue**  
101 Lincoln Avenue  
Bronx, NY

Inquiry Number: 3910510.7  
April 17, 2014

# The EDR Environmental LienSearch™ Report



6 Armstrong Road 4th Floor  
Shelton, CT 06484  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# EDR Environmental LienSearch™ Report

## TARGET PROPERTY INFORMATION

### ADDRESS

101 Lincoln Avenue  
101 Lincoln Avenue  
Bronx, NY

### RESEARCH SOURCE

Source 1: Bronx City Register  
Source 2: Bronx County Clerk  
Source 3: Bronx Department of Finance

### DEED INFORMATION

#### **Deed 1:**

Type of Deed: Deed  
Grantor: G. B. Holding Corporation  
Grantee: Gerosa Haulage & Warehouse Corporation  
Deed Recorded: 12/30/1965  
Instrument: Book 2698, Page 49

### LEGAL DESCRIPTION

Lot 1, Block 2316, also commonly known as 101 Lincoln Avenue, situated and lying in the City of Bronx, Bronx County, State of New York

Property Identifier: Block 2316 Lot 1

### ENVIRONMENTAL LIEN

Found:  Not Found:

### OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Found:  Not Found:

**EDR Environmental LienSearch™ Report**

**Deed - Exhibit**

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.



THIS INDENTURE, made the 20th day of December, nineteen hundred and Sixty-five  
BETWEEN G.B. HOLDING CORPORATION, a New York corporation having its  
office & principal place of business at 777 East 138th Street,  
Bronx, New York

2698 PAGE 49



party of the first part, and GEROSA HAULAGE & WAREHOUSE CORPORATION, a New  
York corporation having its office & principal place of business at  
777 East 138th Street, Bronx, New York



party of the second part,  
WITNESSETH, that the party of the first part, in consideration of One Hundred and no/100 - -  
----- (\$100.00) ----- dollars,  
and other good & valuable consideration  
lawful money of the United States.



by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or  
successors and assigns of the party of the second part forever,



ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate,  
ly. and being in the Borough and County of the Bronx, City and State of  
New York, bounded and described as follows:



BEGINNING at the southwesterly corner of Bruckner (formerly Southern)  
Boulevard and Lincoln Avenue and running thence southerly along the  
westerly line of Lincoln Avenue 240 feet to old high water mark on  
the easterly shore of Harlem River; thence northwesterly along the  
line of old high water mark about 411.73 feet to the easterly line  
of the property acquired by the Mayor, Aldermen and Commonalty of  
the City of New York in the proceeding commonly known as the Third  
Avenue Bridge Proceeding; thence northeasterly and along said  
easterly line 54.893 feet to the southerly line of Bruckner (formerly  
Southern) Boulevard; thence easterly along the southerly line of  
Bruckner (formerly Southern) Boulevard about 333.16 feet to the  
point or place of Beginning; be said dimensions and distances more  
or less. And also all the right, title and interest of the Party  
of the First Part in and to the lands, rights, and privileges  
granted to Lewis Morris by Letters Patent under the Great Seal of  
the State of New York dated August 14, 1851, and recorded in the  
Book of Patents No. 31, page 173 and conveyed by the Executor of  
the said Lewis Morris to Clarence S. Brown by deed bearing date of  
November 16, 1865, and recorded in the Office of the Register of  
Westchester County in Liber 619 of Deeds at page 435, and conveyed  
by said Clarence S. Brown to Bryan Lawrence by deed bearing date  
May 12, 1868, and recorded in the Office of the Register of West-  
chester County in Liber 673 of Deeds at page 467 on May 14, 1868,  
of, in and to all that part of the same bounded and described as  
follows:



BEGINNING at the line of old high water mark on the westerly line  
of Lincoln Avenue at a point distant 240 feet southerly from the  
southwesterly corner of Bruckner (formerly Southern) Boulevard



and Lincoln Avenue; running thence southerly along the westerly line of Lincoln Avenue 190 feet, more or less, to the old boundary line between the Counties of New York and Westchester; thence northwesterly along the old boundary line between the Counties of New York and Westchester about 518.205 feet to the easterly line of the property acquired by the Mayor, Aldermen, Commonalty of the City of New York in the proceeding commonly known as the Third Avenue Bridge Proceeding; thence northeasterly along said easterly line 186.971 feet to the old high water line of the easterly shore of the Harlem River; thence southeasterly along old high water line of Harlem River about 411.73 feet to the westerly line of Lincoln Avenue at the point or place of Beginning, be the same more or less.

TOGETHER with all the right, title and interest of the Party of the First Part of, in and to the lands under water and the water rights and privileges in front of said premises to the bulkhead line.



**TOGETHER** with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof.

**TOGETHER** with the appurtenances and all the estate and rights of the party of the first part in and to said premises,

**TO HAVE AND TO HOLD** the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

**AND** the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

**IN WITNESS WHEREOF**, the party of the first part has duly executed this deed the day and year first above written.

**IN PRESENCE OF:**

**G.E. HOLDING CORPORATION**

By: *[Signature]* Pres.





On the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me personally came

On the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me personally came

1954 2088 PAGE 52

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

On the 20th day of December 19 65, before me personally came FRANK GEROSA to me known, who, being by me duly sworn, did depose and say that he resides at No. 75 Highview Terrace, Yonkers, New York; that he is the President of G.B. HOLDING CORPORATION

On the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. \_\_\_\_\_ that he knows

the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed by its name thereto by like order.

to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

*Roslyn Younger*  
Notary Public

ROSLYN YOUNGER  
Notary Public, State of New York  
No. 24-4373200  
Qualified in Kings County  
Certificate Filled in New York County  
Commission Expires March 30, 1967

**Bargain and Sale Deed**  
WITHOUT COVENANT AGAINST GRANTOR'S ACTS

SECTION 9  
BLOCK 2316  
LOTS - 1 & 36  
COUNTY ~~BRONX~~ of Bronx

TITLE No. \_\_\_\_\_  
G.B. HOLDING CORPORATION

TO  
GEROSA HAULAGE & WAREHOUSE CORPORATION

AS

Recorded At Request of The Title Guarantee Company  
RETURN BY MAIL TO:

FRIEDMAN, MARX & HANDLER, ESQS.  
233 Broadway, NYC (7).

Zip No. \_\_\_\_\_



THE BOARD OF  
TITLE UNDERWRITERS

RECEIVE THIS SPACE FOR USE OF RECORDING OFFICE

CITY REGISTER-BRONX CO.

RECORDED IN DEEDS

*[Handwritten signatures and stamps]*

OFFICE OF CITY REGISTER  
Bronx County  
RECORDED IN DEEDS  
Witness my hand and official seal

*[Signature]*  
CITY REGISTER

7980

TAX PAID

RECEIVED



## **APPENDIX O**

### **Radon Map**



## **APPENDIX P**

### **Resumes**

## Michael D. Burke, LEED AP

Associate

Environmental Engineering and Remediation



### 15 years in the industry ~ 6 years with Langan

Mr. Burke is a geologist/environmental scientist whose practice involves site investigation and remediation, environmental site assessments, in-situ remedial technology, sub-slab depressurization system design, emergency response, environmental and geotechnical site investigations, and health and safety monitoring. He has experience with projects in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup, Voluntary Cleanup and Spill Programs and New York City Department of Environmental Protection (NYCDEP) "E" Designated and New York City Brownfield Cleanup Program sites. He has extensive experience in soil and groundwater investigation and remediation, design of in-situ chemical oxidation and enhanced bioremediation strategies, Phase I Site Assessments, Phase II site investigations, UST Closures, NYSDEC spill closure, remedial excavation oversight and excavation and off-site treatment and/or disposal of contaminated soils.

### Selected Projects

Meeker Avenue Plume Trackdown Site, Brooklyn, NY  
Borden Avenue Distribution Facility, Queens, NY  
Consolidated Edison of New York, West 17<sup>th</sup> Street Development Site (Former MGP Site), New York, NY  
Consolidated Edison of New York, Governors Island Dielectric Fluid Spill, New York, NY  
Montefiore Medical Center, PCB Remediation, Bronx, NY  
New York University, 4 Washington Square Village Fuel Oil Remediation, New York, NY  
New York City School Construction Authority (NYCSCA), Proposed New York City School Construction Sites, Boroughs of New York City, NY  
Consolidated Edison of New York, East 60<sup>th</sup> Street Generating Station, New York, NY  
82 Irving Place, New York, NY  
1113 York Avenue, New York, NY  
Peter Cooper Village/Stuyvesant Town, New York, NY  
Superior Ink, New York, NY  
Bronx Mental Health Redevelopment Project, Bronx, NY  
2950 Atlantic Avenue, East New York, Brooklyn, NY  
Consolidated Edison of New York, East 74<sup>th</sup> Street Generating Station, New York, NY  
Gowanus Village I, Brooklyn, NY  
Consolidated Edison of New York, First Avenue Properties, New York, NY  
Queens West Development Corp. Stage II, Long Island City, Queens, NY

### Education

M.S., Environmental Geochemistry  
Rutgers University

B.S., Geological Sciences  
Rutgers University

B.S., Environmental Science  
Rutgers University

### Professional Registration

OSHA Certification for Hazardous Waste Site Supervisor

OSHA 29 CFR 1910.120 Certification for Hazardous Waste Operations and Emergency Response

NJDEP Certification for Community Noise Enforcement

Troxler Certification for Nuclear Densometer Training

**LANGAN**

## Michael D. Burke, LEED AP

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Article X Project Experience, Proposed Electrical Generation Sites,  
Multiple Locations, New York State  
Poletti Generating Station, Queens, NY  
Arthur Kill Generating Station, Staten Island, New York, NY  
K. Hovnanian, New Jersey Development Sites, New Jersey

## Ryan J. Wohlstrom, EIT

Senior Staff Engineer

Environmental Engineering & Project Management



### 6 years in the industry

Mr. Wohlstrom is an environmental engineer with six years of experience. His environmental expertise includes Phase I and II Environmental Site Assessments, Underground Storage Tank (UST) permitting, removal specifications, and closure reporting; soil, soil gas, and groundwater remediation evaluation, innovative and sustainable remedial action design, environmental analysis, and oversight, design and specification generation for remediation operations with contaminants of concern to include polychlorinated biphenyls (PCBs), solvents, mercury, arsenic, lead, petroleum products, and asbestos. Mr. Wohlstrom is also experienced in the evaluation of laboratory analytical data and preparation of environmental reports. He regularly uses the latest Microsoft applications, all word-processing systems and AutoCAD.

### Education

B.S., Engineering  
Roger Williams University

### Professional Registration

Engineer-in-Training (EIT)  
OSHA 40-Hour HAZWOPER

### Selected Projects

Columbia University, Manhattanville Development, New York, NY  
Sheepshead Bay Development, Brooklyn, NY  
Brooklyn Bridge Park Development, Brooklyn, NY  
Goethals Bridge Development, New York, NY  
Fashion Outlets of Niagara Falls, Town of Niagara, New York  
Lehigh Northeast Cement Company Closed CKD Pile and Wetlands Assessments, Alsen NY  
Gateway Estates Phase II, Brooklyn, NY  
New York City Housing Authority (NYCHA), Various Sites in the Five Boroughs of New York City, NY  
Hudson Yards, Terra Firma Development, New York, NY  
29 Flatbush Avenue, Brooklyn, NY  
Soil Vapor Remediation System Experience, Various Sites, Southern CA  
Former Artistic Brass Facility, South Gate, CA  
Hassayampa Superfund Site, Maricopa County, AZ  
Client Confidential, Burbank, CA  
Former Calstyle Manufacturing Facility, Compton, CA  
Irvine Ranch Water District Cienega Filtration Project, Irvine, CA  
Bolsa Chica Lowlands Assessment and Remediation, Orange County, CA  
Post-Fire Emergency Response 2007 Santiago Fire, Orange County, CA  
Lehigh Cement Company Cement Kiln Dust Pile, Metaline Falls, WA  
Trident Plating, Santa Fe Springs, CA  
Hi-Shear Corporation, Torrance, CA  
Los Angeles Unified School District, San Pedro, CA  
Newport Banning Ranch LLC, Newport Beach, CA  
Client Confidential, Thousand Oaks, CA  
Irvine Ranch Water District Cienega Filtration, Irvine, CA

# Phase II Work Plan

**For**

**101 Lincoln Avenue**

**Bronx, NY 10454**

**Block 2316, Lot 1**

**OER Project Number TBD**

**E-Designation E-145**

**CEQR Number 05DCP005X**

**Port Morris / Bruckner Blvd Rezoning**

**Prepared for:**

NY developers  
1825 65<sup>th</sup> Street  
Brooklyn, NY 11204

**Prepared by:**



***ENVIRONMENTAL BUSINESS CONSULTANTS***

1808 Middle Country Road  
Ridge, NY 11961

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October 2015

## **Introduction**

This Phase II Investigation Work Plan has been developed for the above referenced site. The site is located within the Port Morris section of the borough of Bronx. The following work scope has been developed as per the OER meeting.

## **Site Location, Current Use, and Proposed Development Plan**

The Site consists of one irregular -shaped lot located on the south side of Bruckner Boulevard, the south side of 3<sup>rd</sup> Avenue and the west side of Lincoln Avenue in the Port Morris neighborhood of the Borough of the Bronx, City of New York, and Bronx County, New York. The street address of the subject site is 101 Lincoln Avenue, Brooklyn, New York 10453 and is identified as Block 2316 Lot 1 on the NYC Tax Map (**Figure 2**). The lot includes approximately 430 feet of street frontage on Lincoln Avenue, 333 feet of frontage on Bruckner Boulevard and 241 feet of frontage on 3rd Avenue Bridge and extends approximately 518 feet deep for a total area of 133,700 sf. The site is currently developed with one L shaped two- story structure; occupied as office space.

The lot is currently zoned manufacturing and residential, M1-3 / R8, with no commercial overlay.

The proposed new building will consist of three new 25-story and one 18-story residential tower buildings. The towers will be interconnected with a common base which will include two 7-story, one 6-story, one 3-story and one single story buildings. The project will include 74,000 sf of underground parking, 31,199 sf of retail space, 2,872 sf of community space and 833,829 sf of residential space. The entire site will be excavated to a depth of approximately 12 feet. 95% of the site will be excavated to approximately 12 feet. 5% of the site; along the western façade of the proposed building, will not be excavated. This area serves as a buffer to the bridge structure.

The water table at the Site is expected to be approximately 7 feet below grade surface (bgs). See attached redevelopment plans for layout of the proposed site development.

## **Phase I Screening Summary**

A Phase I screening was completed by EBC in September 2015. The following Site history was established based on historic Sanborn maps:

The Site was developed prior to 1887 with three 3-story store fronts with rear yards on the south side of the Site and two 2-story and one 1-story stables on the northern side of the Site. In 1904 the two western store fronts remained and merged into one 3-story store with a small 1-story addition in the rear yard of the western most building, the eastern most store remained the same with the addition of a single story building occupying the entire footprint of the rear yard, and the northern portion of the lot was redeveloped with one 3-story stable with an elevator and office. In 1918, the northern stable was noted as an auto warehouse on the first floor and the second and third floors were utilized as storage and a warehouse. The lot remained in this configuration until 1977. In 1977, the two western buildings on the southern side of the site and the 3-story building on the northern side of the site were demolished and the areas left vacant. In 2006, the western most portion of the lot was developed with a 5-story building consisting of a commercial space on the first floor and residential apartments on the remaining 4 floors. In 2007, the western building was not noted on the Sanborn map.



The western most portions and the northern portion of the lot have remained vacant, while the eastern building on the south side of the Site was utilized as commercial space on the first floor and two residential apartments on the second and third floors.

Based upon reconnaissance of the subject site and surrounding properties, and review of historical records and regulatory agency databases, no recognized environmental conditions were identified in connection with the subject site.

## **Phase II Investigation Work Scope**

### **Geophysical Survey**

A geophysical survey will not be performed on site due to the excavation plan of 12 feet across 100% of the site.

### **Soil, Groundwater and Soil Vapor Summary**

An investigation of soil, soil vapor and groundwater is being performed to properly characterize the site for potential environmental impacts from historic on-site/off-site uses, operations, etc. The proposed sampling event will address historic fill, as well as to provide general horizontal/vertical characterization across the site for development purposes. The sampling procedures of this investigation will be performed in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation DER-10.

Twelve test borings will be completed at the site. Please see attached site plan depicting sample point locations, where soil, groundwater, and soil vapor samples will be collected. A minimum of two soil samples will be collected from each of the test borings. Six temporary groundwater monitoring wells will be installed and a total of Six groundwater samples will be collected. Eight soil vapor samples will be collected from approximately 12-14ft bgs. The depth of groundwater is expected to be encountered at approximately 7 feet bgs and general groundwater flow direction is expected to flow southwest. Each sample point location at the site will be accurately measured to fixed benchmarks (i.e., select properly lines, adjacent structures, etc.) or by a precision GPS that is capable of coordinating a fixed point with within +/- 1 foot.

### **Soil Sampling**

A geologist/engineer/QEP will screen the soil samples during borehole advancement for organic vapors with a photo-ionization detector (PID) and evaluated for visual and olfactory impacts prior to collecting environmental samples. All field work will be recorded in a field log. A Geoprobe™ utilizing direct-push technology will be used and if necessary, more advanced drilling technology will be used to complete the site investigation. Two samples from each of the twelve borings will be collected; one at 0-2 feet and one at 12-14 feet. Discrete (grab) samples will be taken from the aforementioned sampling intervals. The subsurface soil samples may also serve as in-situ post-excavation soil samples for the remedial plan. A third soil sample may be collected from each or several test boring(s) if: 1) elevated PID readings and/or visual and olfactory observations are noted during borehole advancement; and/or 2) field observations identify an upper fill layer underlain by native material the additional soil sample from the upper zone of the native layer will help delineate the vertical migration of impacts (if any), as well as determine a more detailed remedy and potentially provide a cost savings for disposal options.

## Monitoring Well Installation and Groundwater Sampling

Six, one-inch-diameter temporary groundwater monitoring wells will be installed. Representative groundwater samples will be collected using low-flow sampling techniques. Properly sized screen and silica sand pack will be used for noted site conditions. A representative groundwater sample will be collected from each well with a check valve and dedicated tubing. Sampling will be conducted in accordance with NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010, and Sampling Guidelines and Protocols, dated March 1991. Groundwater wells will be gauged with a water level meter to record a depth to groundwater reading (1/100 foot), and if necessary, an interface meter to determine the thickness of LNAPL or DNAPL. The well casings will be surveyed by a trained QEP and/or NYS licensed surveyor to facilitate preparation of a groundwater contour map and determine the direction of groundwater flow.

## Soil Vapor Sampling

Samples will be collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Conditions in the field may require adjustment of sampling locations. Groundwater is expected to be encountered at a depth of 7 feet.

Eight soil vapor samples will be collected from approximately 12-14 ft bgs . The vapor implants will be installed with Geoprobe™ equipment. The implants will be made from stainless steel and fitted with disposable polyethylene tubing. The surface of the bore holes will be sealed with a hydrated bentonite powder. Sampling will occur for the duration of two hours. Samples will be collected in appropriate sized Summa canisters that have been certified clean by the laboratory and samples will be analyzed by using USEPA Method TO-15. Flow rate for both purging and sampling will not exceed 0.2 L/min. Twenty-four hours following soil vapor probe installation, one to three implant volumes shall be purged prior to the collection of any soil-gas samples. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

As part of the vapor intrusion evaluation, a tracer gas will be used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor probe seal. A container (box, plastic pail, etc.) will serve to keep the tracer gas in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer gas prior to sampling. If the tracer sample results show a significant presence of the tracer, the probe seals will be adjusted to prevent infiltration. At the conclusion of the sampling round, tracer monitoring will be performed a second time to confirm the integrity of the probe seals.

## Sample Analysis

Soil, groundwater, and soil vapor samples will be submitted to a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory for Full analysis:

- Volatile Organic Compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Pesticides/PCBs by EPA Method 8081/8082; and

- Target Analyte List metals by EPA Method 6010 and 7471;
- Soil vapor samples will be analyzed for VOCs by using USEPA Method TO-15.

All groundwater samples will be analyzed for both filtered (dissolved) and unfiltered (total) metals.

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and “finger print analysis” and required regulatory reporting (i.e. NYSDEC spills hotline) will be performed.

### **Quality Assurance/Quality Control Procedures**

QA/QC procedures will be used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analysis for this investigation. Field QA/QC procedures will be used (1) to document that samples are representative of actual conditions at the Site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses will be used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. QA/QC samples (field and trip blanks, duplicates, etc.) will be collected and analyzed at an ELAP-certified laboratory.

### **Investigation Derived Waste**

Cuttings may be disposed at the site within the borehole that generated them to within 24 inches of the surface unless:

- Free product or grossly contaminated soil, are present in the cuttings;
- The borehole has penetrated an aquitard, aquiclude or other confining layer; or extends significantly into bedrock;
- Backfilling the borehole with cuttings will create a significant path for vertical movement of contaminants. Soil additives (bentonite) may be added to the cuttings to reduce permeability;
- The soil cannot fit into the borehole.

Those soil cuttings needing to be managed on-site will be containerized in properly labeled DOT approved 55-gallon drums for future off-site disposal at a permitted facility. All boreholes which require drill cuttings disposal would ultimately be filled with bentonite chips (hydrated) and asphalt/concrete capping. Disposable sampling equipment including, spoons, gloves, bags, paper towels, etc. that came in contact with environmental media will be double bagged and disposed as municipal trash in a facility trash dumpster as non-hazardous trash.

### **Reporting**

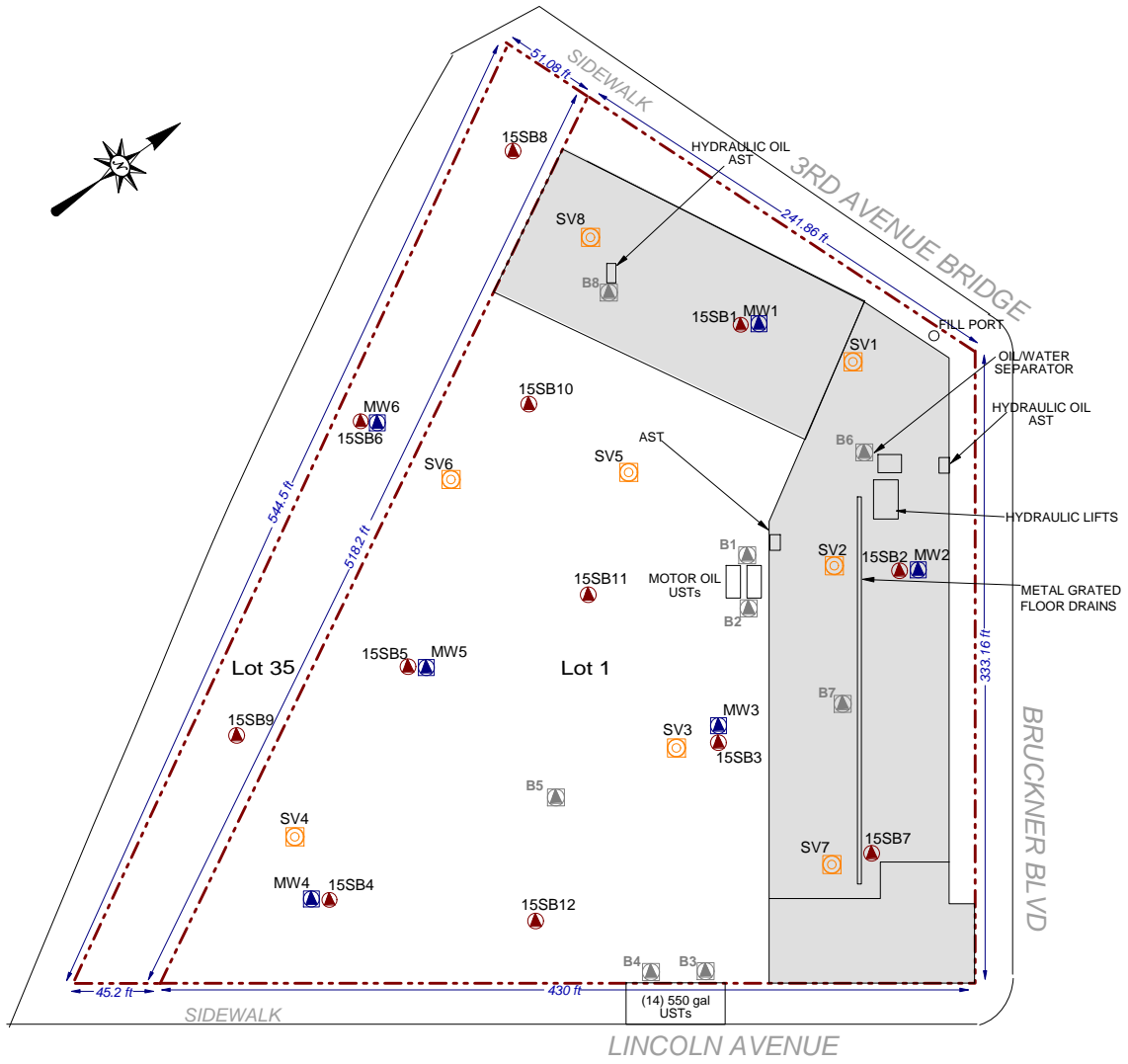
A Phase II Investigation Report (template version) will be prepared following completion of the field activities and receipt of the laboratory data. The report will provide detailed summaries of the investigative findings. Soil, groundwater and soil vapor analytical results will be compared to the NYSDEC Part 375-6.8(a) Unrestricted Used Soil Cleanup Objectives, appropriate Part 375-6.8(b) Restricted Soil Cleanup Objectives and NYSDEC Part 703 Groundwater Quality Standards (GQS) (class GA) or Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS), and NYSDOH October 2006 Final Guidance for Evaluating Soil Vapor Intrusion

Matrices. The report will include an updated sampling plan, spider diagrams, analytical data tables for all reported constituent compounds (including non-detectable concentrations) and remedial recommendations, as warranted.

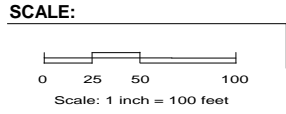
### **Investigation HASP**

An OSHA compliant Health and Safety Plan that meets all OSHA HAZWOPER requirements will be implemented during the site work to protect worker safety. The Site Safety Coordinator will ensure full compliance of the HASP in accordance with applicable health and safety laws and regulations. All field personnel involved in investigation activities will participate in training required under OSHA HAZWOPER 29 CFR 1910.120, including 40-hour hazardous waste operator training and annual 8-hour refresher training. Emergency telephone numbers will be posted at the site location before any work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, environmental); emergency procedures; PPE levels and other relevant safety topics including a highlighted route map to the nearest hospital/emergency room. Meetings will be documented in a log book or specific form. Potential on-site chemicals of concern include VOCs, SVOCs, Pesticides/PCBs, and Metals (specifically arsenic, lead, and mercury at a minimum). Information fact sheets and/or summary tables for each contaminant group are included in the HASP. The attached HASP will be on-site during each sampling event.

# **FIGURES**



- KEY:**
- Property Line
  - ▲ RI Soil Boring Location
  - ▲ Groundwater Sampling Location
  - ▲ 15SBx Soil Boring Location
  - SVx Soil Gas Sampling Location



**BBC**  
 ENVIRONMENTAL BUSINESS CONSULTANTS

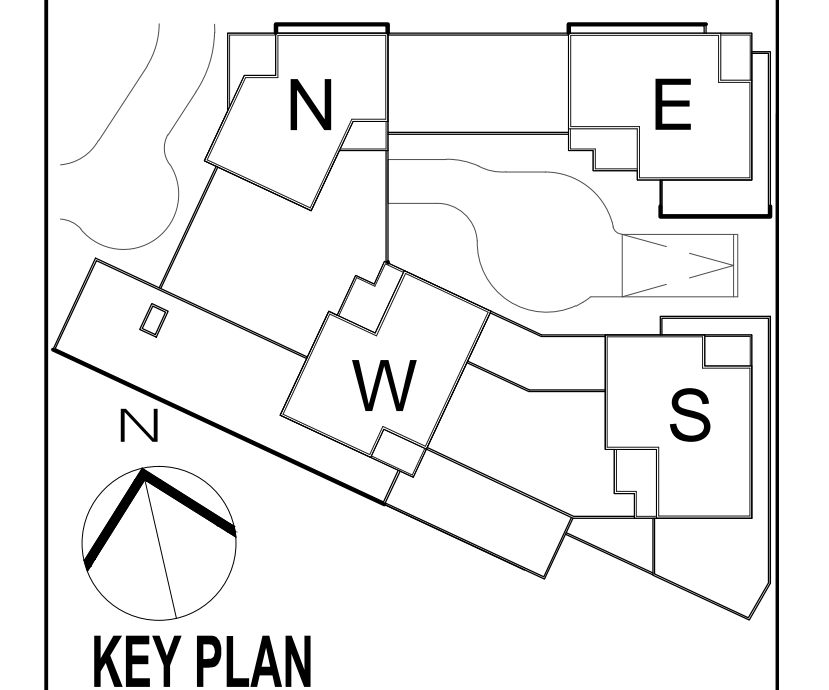
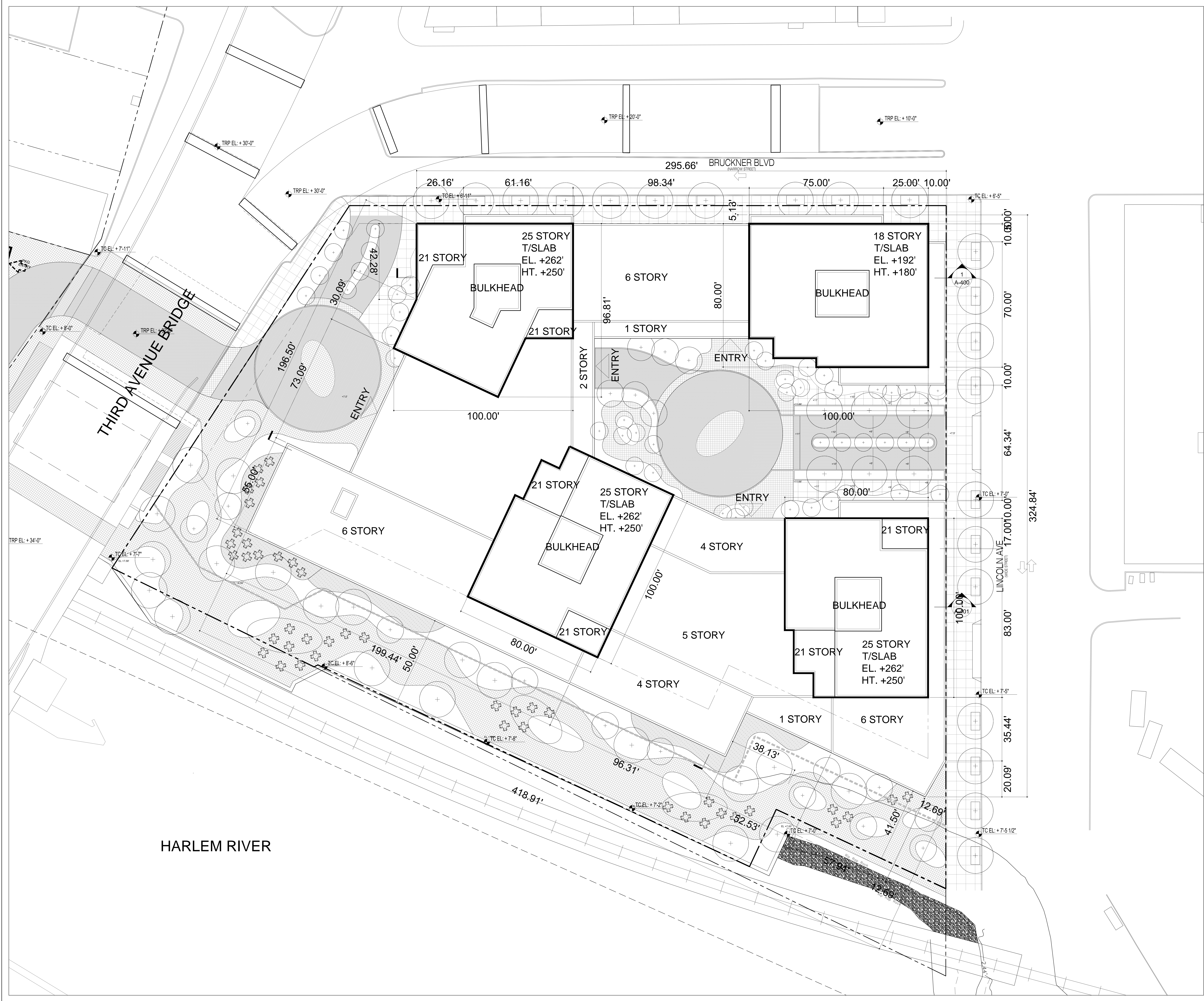
Phone 631.504.6000  
 Fax 631.924.2870

Figure No.  
**2**


Site Name:	<b>REDEVELOPMENT PROJECT</b>
Site Address:	<b>101 LINCOLN AVENUE, BRONX, NY</b>
Drawing Title:	<b>SITE SAMPLING LOCATIONS</b>

**APPENDIX A**  
**ARCHITECTURAL PLANS**

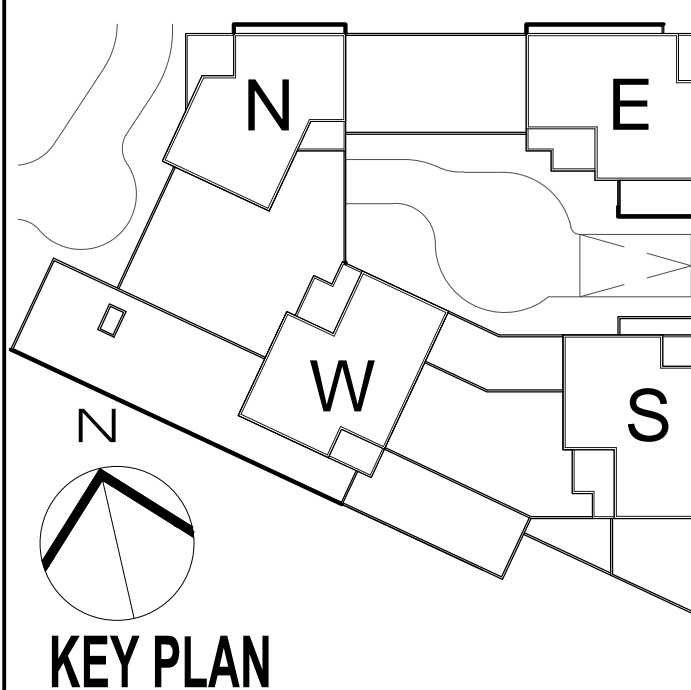




NOT FOR CONSTRUCTION

Number:	09/01/2015	Date:	09/01/2015	Revision:		
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018					
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022					
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451					
DESIGNER ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754					
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011					
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001					
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016					
LANDSCAPE ARCHITECT:	MPFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271					
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879					
CONSULTANT:						
CONSULTANT:						
DOB BSCAN:						
DOB STAMPS & SIGNATURES:						
DWG TITLE:	SITE PLAN					
SCALE & SIGNATURE:	DATE:	09/01/2015	PROJECT #:	15006	SCALE:	1/16" = 1'-0"
						<b>A-012.00</b>
DWG FILE: J:\15006\101 Lincoln Ave. Sdb						SHEET 18 OF 130

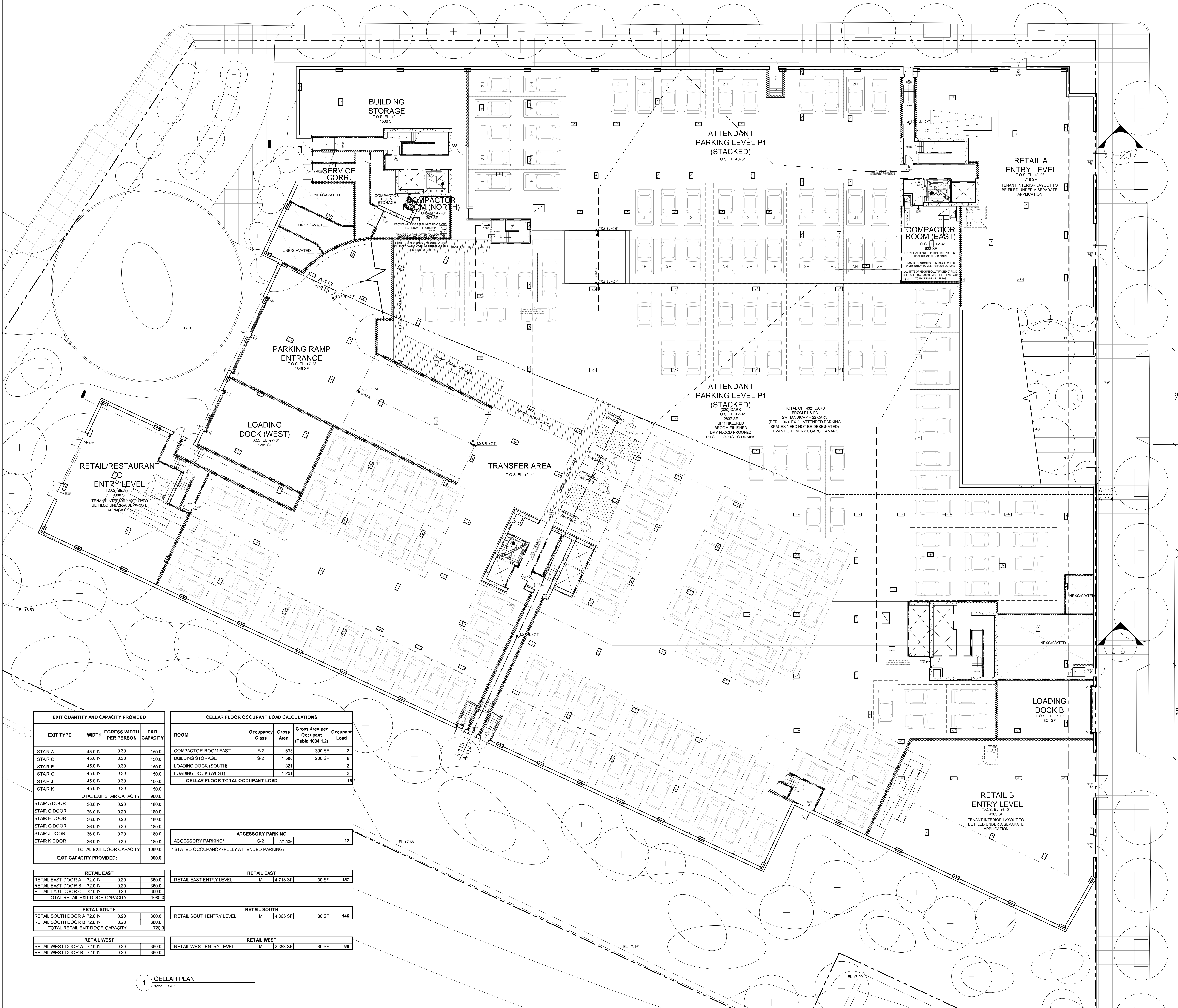




- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/10/15	JOB SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB SSAN:		
DOB STAMPS & SIGNATURES:		
DRWG TITLE:	<b>CELLAR FLOOR OVERALL PLAN</b>	
DATE:	08/10/15	
PROJECT #:	1508	
SCALE:	1/8" = 1'-0"	
DRWG NO.:	A-100.00	
CAD FILE:	21508 101 Lincoln Av_S08	SHEET 19 OF 130



**EXIT QUANTITY AND CAPACITY PROVIDED**

EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
STAIR A	45.0 IN.	0.30	150.0
STAIR C	45.0 IN.	0.30	150.0
STAIR E	45.0 IN.	0.30	150.0
STAIR G	45.0 IN.	0.30	150.0
STAIR J	45.0 IN.	0.30	150.0
STAIR K	45.0 IN.	0.30	150.0
TOTAL EXIT STAIR CAPACITY			900.0
STAR A DOOR	36.0 IN.	0.20	180.0
STAR C DOOR	36.0 IN.	0.20	180.0
STAR E DOOR	36.0 IN.	0.20	180.0
STAR G DOOR	36.0 IN.	0.20	180.0
STAR J DOOR	36.0 IN.	0.20	180.0
STAR K DOOR	36.0 IN.	0.20	180.0
TOTAL EXIT DOOR CAPACITY			1080.0
EXIT CAPACITY PROVIDED:			900.0

**CELLAR FLOOR OCCUPANT LOAD CALCULATIONS**

ROOM	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1004.1.2)	Occupant Load
COMPACTOR ROOM EAST	F-2	633	300 SF	2
BUILDING STORAGE	S-2	1,588	200 SF	8
LOADING DOCK (SOUTH)		821		2
LOADING DOCK (WEST)		1,201		3
<b>CELLAR FLOOR TOTAL OCCUPANT LOAD</b>				<b>15</b>

**ACCESSORY PARKING**

ACCESSORY PARKING*	Occupancy Class	Gross Area	Occupant Load
ACCESSORY PARKING*	S-2	57,506	12
* STATED OCCUPANCY (FULLY ATTENDED PARKING)			

**RETAIL EAST**

RETAIL EAST DOOR A	WIDTH	EGRESS WIDTH PER PERSON	CAPACITY
RETAIL EAST DOOR A	72.0 IN.	0.20	360.0
RETAIL EAST DOOR B	72.0 IN.	0.20	360.0
RETAIL EAST DOOR C	72.0 IN.	0.20	360.0
TOTAL RETAIL EAST DOOR CAPACITY			1080.0

**RETAIL EAST**

RETAIL EAST ENTRY LEVEL	Occupancy Class	Gross Area	Occupant Load
RETAIL EAST ENTRY LEVEL	M	4,718 SF	157

**RETAIL SOUTH**

RETAIL SOUTH DOOR A	WIDTH	EGRESS WIDTH PER PERSON	CAPACITY
RETAIL SOUTH DOOR A	72.0 IN.	0.20	360.0
RETAIL SOUTH DOOR B	72.0 IN.	0.20	360.0
TOTAL RETAIL SOUTH DOOR CAPACITY			720.0

**RETAIL SOUTH**

RETAIL SOUTH ENTRY LEVEL	Occupancy Class	Gross Area	Occupant Load
RETAIL SOUTH ENTRY LEVEL	M	4,368 SF	146

**RETAIL WEST**

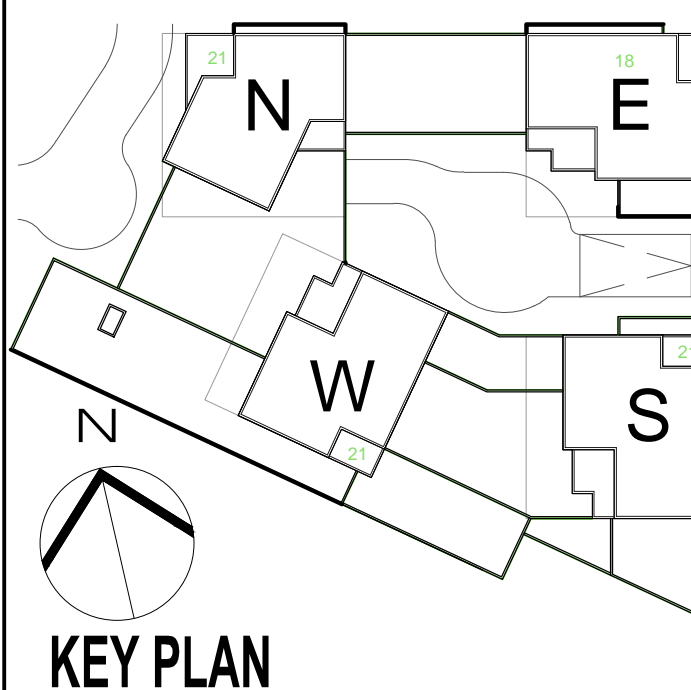
RETAIL WEST DOOR A	WIDTH	EGRESS WIDTH PER PERSON	CAPACITY
RETAIL WEST DOOR A	72.0 IN.	0.20	360.0
RETAIL WEST DOOR B	72.0 IN.	0.20	360.0

**RETAIL WEST**

RETAIL WEST ENTRY LEVEL	Occupancy Class	Gross Area	Occupant Load
RETAIL WEST ENTRY LEVEL	M	2,388 SF	80

**1 CELLAR PLAN**  
3/32" = 1'-0"

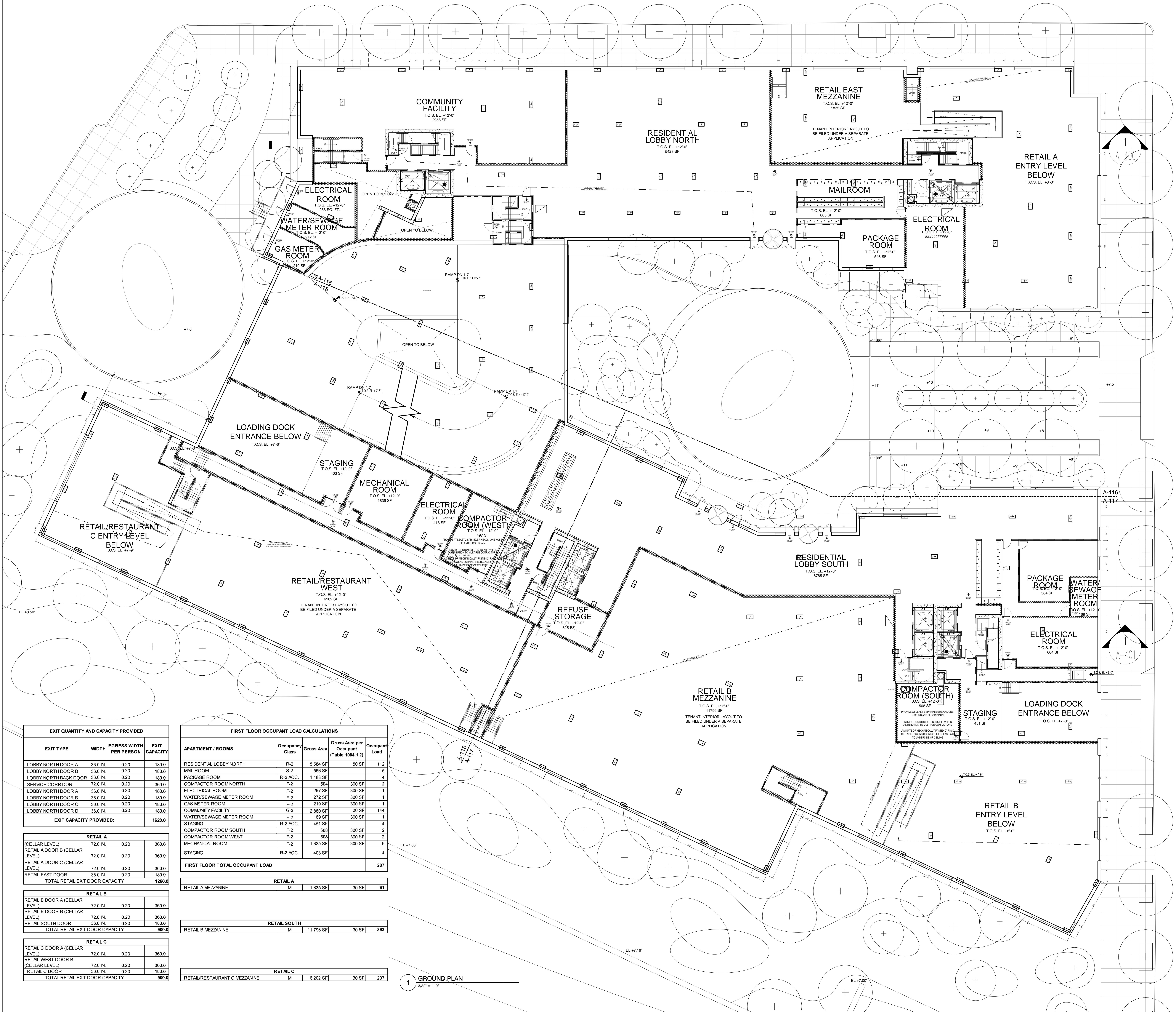




- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	19012015	JOB SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Executive Architect:	G H W A Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
M/E/P/F Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB SSAN:		
DOB STAMPS & SIGNATURES:		
DOB TITLE:		
GROUND FLOOR OVERALL PLAN		
DATE:	19/01/2015	
PROJECT #:	19012015	
SCALE:	1/8" = 1'-0"	
SHEET NO.:	A-101.00	
CAD FILE:	215458 101 Lincoln Av_S80	SHEET 20 OF 130



**EXIT QUANTITY AND CAPACITY PROVIDED**

EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
LOBBY NORTH DOOR A	36.0 IN	0.20	180.0
LOBBY NORTH DOOR B	36.0 IN	0.20	180.0
LOBBY NORTH BACK DOOR	36.0 IN	0.20	180.0
SERVICE CORRIDOR	72.0 IN	0.20	360.0
LOBBY NORTH DOOR A	36.0 IN	0.20	180.0
LOBBY NORTH DOOR B	36.0 IN	0.20	180.0
LOBBY NORTH DOOR C	36.0 IN	0.20	180.0
LOBBY NORTH DOOR D	36.0 IN	0.20	180.0
<b>EXIT CAPACITY PROVIDED:</b>			<b>1820.0</b>

**RETAIL A**

CELLAR LEVEL	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
RETAIL A DOOR B (CELLAR LEVEL)	72.0 IN	0.20	360.0
RETAIL A DOOR C (CELLAR LEVEL)	72.0 IN	0.20	360.0
RETAIL EAST DOOR	36.0 IN	0.20	180.0
<b>TOTAL RETAIL EXIT DOOR CAPACITY</b>			<b>1260.0</b>

**RETAIL B**

CELLAR LEVEL	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
RETAIL B DOOR B (CELLAR LEVEL)	72.0 IN	0.20	360.0
RETAIL SOUTH DOOR	36.0 IN	0.20	180.0
<b>TOTAL RETAIL EXIT DOOR CAPACITY</b>			<b>900.0</b>

**RETAIL C**

CELLAR LEVEL	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
RETAIL C DOOR A (CELLAR LEVEL)	72.0 IN	0.20	360.0
RETAIL WEST DOOR B (CELLAR LEVEL)	72.0 IN	0.20	360.0
RETAIL C DOOR	36.0 IN	0.20	180.0
<b>TOTAL RETAIL EXIT DOOR CAPACITY</b>			<b>900.0</b>

**FIRST FLOOR OCCUPANT LOAD CALCULATIONS**

APARTMENT / ROOMS	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1004.1.2)	Occupant Load
RESIDENTIAL LOBBY NORTH	R-2	5,584 SF	50 SF	112
MAIL ROOM	S-2	568 SF	50 SF	5
PACKAGE ROOM	R-2 ACC.	1,188 SF	30 SF	4
COMPACTOR ROOM NORTH	F-2	504 SF	300 SF	2
ELECTRICAL ROOM	F-2	297 SF	300 SF	1
WATER/SEWAGE METER ROOM	F-2	272 SF	300 SF	1
GAS METER ROOM	F-2	219 SF	300 SF	1
COMMUNITY FACILITY	G-3	2,890 SF	20 SF	144
WATER/SEWAGE METER ROOM	F-2	159 SF	300 SF	1
STAGING	R-2 ACC.	451 SF	30 SF	4
COMPACTOR ROOM SOUTH	F-2	508 SF	300 SF	2
COMPACTOR ROOM WEST	F-2	508 SF	300 SF	2
MECHANICAL ROOM	F-2	1,835 SF	300 SF	6
STAGING	R-2 ACC.	403 SF	30 SF	4
<b>FIRST FLOOR TOTAL OCCUPANT LOAD</b>				<b>287</b>

**RETAIL A**

RETAIL A MEZZANINE	Occupancy Class	Gross Area	Occupant Load	
RETAIL A MEZZANINE	M	1,835 SF	30 SF	61

**RETAIL SOUTH**

RETAIL B MEZZANINE	Occupancy Class	Gross Area	Occupant Load	
RETAIL B MEZZANINE	M	11,796 SF	30 SF	393

**RETAIL C**

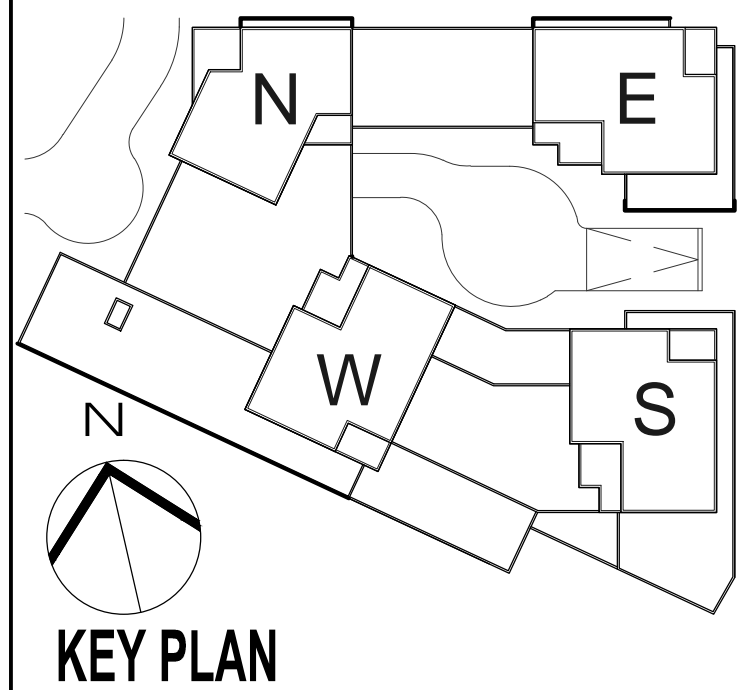
RETAIL/RESTAURANT C MEZZANINE	Occupancy Class	Gross Area	Occupant Load	
RETAIL/RESTAURANT C MEZZANINE	M	6,202 SF	30 SF	207

**1 GROUND PLAN**  
3/32" = 1'-0"









- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

09/01/2015 035-SUMBERSON

OWNER: THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE BRONX, NY 10451

DESIGN ARCHITECT: **G+WA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER: DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

MECHANICAL ENGINEER: VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER: AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT: MPFP  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER: PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB SSCAN:

DOB STAMPS & SIGNATURES:

OWNER TITLE: **3RD FLOOR OVERALL PLAN**

DATE: 09/01/2015  
PROJECT #: 1500  
SCALE: 1/8" = 1'-0"  
**A-103.00**  
SHEET NO. 15 OF 130



**THIRD FLOOR OCCUPANT LOAD CALCULATIONS**

APARTMENT / ROOMS	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1004.1.2)	Occupant Load
MECHANICAL ROOM	F-2	7,007 SF	300 SF	23
BICYCLE STORAGE ROOM	S-2	6,500 SF	300 SF	22
SUPER'S WORKSHOP	R-2 ACC	948 SF	200 SF	4
SUPER'S OFFICE	R-2 ACC	225 SF	200 SF	1
LAUNDRY ROOM	R-2 ACC	604 SF	200 SF	3
<b>Mechanical + Amenity Spaces Occupancy Load Total</b>				<b>53</b>

NORTH TOWER				
APT 01	R-2	468 SF	200 SF	2
APT 02	R-2	468 SF	200 SF	2
APT 03	R-2	468 SF	200 SF	2
APT 04	R-2	1,006 SF	200 SF	5
APT 05	R-2	452 SF	200 SF	2
APT 06	R-2	1,201 SF	200 SF	6
APT 07	R-2	718 SF	200 SF	4
APT 08	R-2	704 SF	200 SF	4
APT 09	R-2	571 SF	200 SF	3
APT 10	R-2	571 SF	200 SF	3
APT 11	R-2	434 SF	200 SF	2
APT 12	R-2	434 SF	200 SF	2
APT 13	R-2	434 SF	200 SF	2
APT 14	R-2	377 SF	200 SF	2
APT 15	R-2	608 SF	200 SF	3
APT 16	R-2	450 SF	200 SF	2
APT 17	R-2	450 SF	200 SF	2
APT 18	R-2	448 SF	200 SF	2
<b>North Tower Occupancy Load Total</b>				<b>54</b>

EAST TOWER				
APT 01	R-2	571 SF	200 SF	3
APT 02	R-2	578 SF	200 SF	3
APT 03	R-2	484 SF	200 SF	2
APT 04	R-2	609 SF	200 SF	3
APT 05	R-2	713 SF	200 SF	4
APT 06	R-2	703 SF	200 SF	4
APT 07	R-2	863 SF	200 SF	5
APT 08	R-2	925 SF	200 SF	5
APT 09	R-2	773 SF	200 SF	4
APT 10	R-2	860 SF	200 SF	4
BUILDING STORAGE	S-2	377 SF	200 SF	2
APT 11	R-2	674 SF	200 SF	3
APT 12	R-2	615 SF	200 SF	3
APT 13	R-2	748 SF	200 SF	4
APT 14	R-2	434 SF	200 SF	2
APT 15	R-2	434 SF	200 SF	2
<b>East Tower Occupancy Load Total</b>				<b>52</b>

**SOUTH TOWER**

APT 01	R-2	478 SF	200 SF	2
APT 02	R-2	478 SF	200 SF	2
APT 03	R-2	478 SF	200 SF	2
APT 04	R-2	378 SF	200 SF	2
APT 05	R-2	984 SF	200 SF	5
APT 06	R-2	804 SF	200 SF	4
APT 07	R-2	521 SF	200 SF	3
APT 08	R-2	538 SF	200 SF	3
APT 09	R-2	538 SF	200 SF	3
APT 10	R-2	687 SF	200 SF	3
APT 11	R-2	987 SF	200 SF	5
APT 12	R-2	1,140 SF	200 SF	6
APT 13	R-2	1,019 SF	200 SF	5
<b>South Tower Occupancy Load Total</b>				<b>46</b>

**WEST TOWER**

APT 01	R-2	777 SF	200 SF	4
APT 02	R-2	696 SF	200 SF	3
APT 03	R-2	678 SF	200 SF	3
APT 04	R-2	508 SF	200 SF	3
APT 05	R-2	492 SF	200 SF	2
APT 06	R-2	510 SF	200 SF	3
APT 07	R-2	718 SF	200 SF	4
APT 08	R-2	456 SF	200 SF	2
APT 09	R-2	456 SF	200 SF	2
APT 10	R-2	456 SF	200 SF	2
APT 11	R-2	456 SF	200 SF	2
APT 12	R-2	456 SF	200 SF	2
APT 13	R-2	589 SF	200 SF	3
APT 14	R-2	456 SF	200 SF	2
APT 15	R-2	444 SF	200 SF	2
APT 16	R-2	589 SF	200 SF	3
APT 17	R-2	589 SF	200 SF	3
APT 18	R-2	670 SF	200 SF	4
APT 19	R-2	1,206 SF	200 SF	6
APT 20	R-2	454 SF	200 SF	2
MECHANICAL ROOM	R-2	377 SF	200 SF	1
APT 21	R-2	483 SF	200 SF	2
APT 22	R-2	468 SF	200 SF	2
<b>West Tower Occupancy Load Total</b>				<b>68</b>

**THIRD FLOOR TOTAL OCCUPANT LOAD** 282

**EXIT QUANTITY AND CAPACITY PROVIDED**

EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
STAR A	45.0 IN.	0.30	150.0
STAR B	45.0 IN.	0.30	150.0
STAR C	45.0 IN.	0.30	150.0
STAR D	45.0 IN.	0.30	150.0
STAR E	45.0 IN.	0.30	150.0
STAR F	45.0 IN.	0.30	150.0
STAR G	45.0 IN.	0.30	150.0
STAR H	45.0 IN.	0.30	150.0
STAR J	45.0 IN.	0.30	150.0
STAR M	45.0 IN.	0.30	150.0
STAR X	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>1650.0</b>
STAR A DOOR	36.0 IN.	0.20	180.0
STAR B DOOR	36.0 IN.	0.20	180.0
STAR C DOOR	36.0 IN.	0.20	180.0
STAR D DOOR	36.0 IN.	0.20	180.0
STAR E DOOR	36.0 IN.	0.20	180.0
STAR F DOOR	36.0 IN.	0.20	180.0
STAR G DOOR	36.0 IN.	0.20	180.0
STAR H DOOR	36.0 IN.	0.20	180.0
STAR J DOOR	36.0 IN.	0.20	180.0
STAR M DOOR	36.0 IN.	0.20	180.0
STAR X DOOR	36.0 IN.	0.20	180.0
<b>TOTAL EXIT DOOR CAPACITY</b>			<b>1980.0</b>
<b>EXIT CAPACITY PROVIDED:</b>			<b>1650.0</b>

1 3RD FLOOR PLAN  
3/32" = 1'-0"

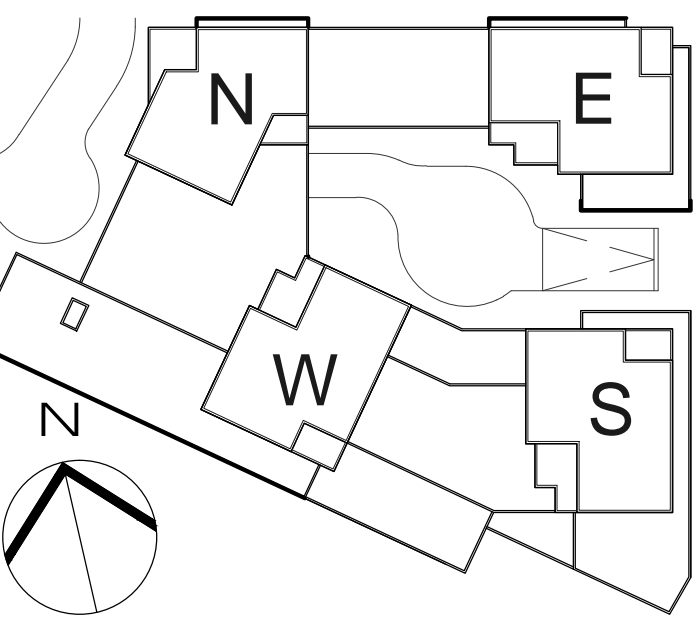












- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

09/01/2015 035-SUB-030A

OWNER: THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE BRONX, NY 10451

DESIGNER ARCHITECT: **G+WA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER: DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

METFP ENGINEER: VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER: AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT: MPFP  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER: PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879



**SIXTH FLOOR OCCUPANT LOAD CALCULATIONS**

APARTMENT / ROOMS	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1066.2)	Occupant Load
<b>NORTH TOWER</b>				
APT 01	R-2	1,260 SF	200 SF	6
APT 02	R-2	928 SF	200 SF	5
APT 03	R-2	452 SF	200 SF	2
APT 04	R-2	1,260 SF	200 SF	6
APT 05	R-2	718 SF	200 SF	4
APT 06	R-2	704 SF	200 SF	4
APT 07	R-2	571 SF	200 SF	3
APT 08	R-2	571 SF	200 SF	3
APT 09	R-2	434 SF	200 SF	2
APT 10	R-2	434 SF	200 SF	2
APT 11	R-2	434 SF	200 SF	2
APT 12	R-2	434 SF	200 SF	2
APT 13	R-2	473 SF	200 SF	2
North Tower Occupancy Load Total				44
<b>EAST TOWER</b>				
APT 01	R-2	571 SF	200 SF	3
APT 02	R-2	578 SF	200 SF	3
APT 03	R-2	484 SF	200 SF	2
APT 04	R-2	608 SF	200 SF	3
APT 05	R-2	713 SF	200 SF	4
APT 06	R-2	703 SF	200 SF	4
APT 07	R-2	992 SF	200 SF	5
APT 08	R-2	992 SF	200 SF	5
APT 09	R-2	770 SF	200 SF	4
APT 10	R-2	992 SF	200 SF	5
BUILDING STORAGE				
APT 11	R-2	674 SF	200 SF	3
APT 12	R-2	674 SF	200 SF	3
APT 13	R-2	748 SF	200 SF	4
APT 14	R-2	434 SF	200 SF	2
APT 15	R-2	434 SF	200 SF	2
East Tower Occupancy Load Total				82

**SOUTH TOWER**

APT 01	R-2	908 SF	200 SF	5
APT 02	R-2	884 SF	200 SF	4
APT 03	R-2	834 SF	200 SF	4
APT 04	R-2	721 SF	200 SF	3
APT 05	R-2	538 SF	200 SF	3
APT 06	R-2	538 SF	200 SF	3
APT 07	R-2	687 SF	200 SF	3
APT 08	R-2	867 SF	200 SF	4
APT 09	R-2	1,140 SF	200 SF	6
APT 10	R-2	1,019 SF	200 SF	5
CLUB ROOM SOUTH	R-2 ACC	1,390 SF	50 SF	28
ROOF TERRACE LOBBY	R-2 ACC	650 SF	50 SF	13
OUTDOOR AMENITY ROOF TERRACE	R-2 ACC	5,253 SF	50 SF	114
South Tower Occupancy Load Total				198

**WEST TOWER**

APT 01	R-2	1,110 SF	200 SF	6
APT 02	R-2	999 SF	200 SF	5
APT 03	R-2	589 SF	200 SF	3
APT 04	R-2	444 SF	200 SF	2
APT 05	R-2	589 SF	200 SF	3
APT 06	R-2	589 SF	200 SF	3
APT 07	R-2	670 SF	200 SF	4
APT 08	R-2	1,289 SF	200 SF	6
APT 09	R-2	454 SF	200 SF	2
APT 10	R-2	986 SF	200 SF	5
APT 11	R-2	589 SF	200 SF	3
APT 12	R-2	762 SF	200 SF	4
APT 13	R-2	736 SF	200 SF	4
APT 14	R-2	860 SF	200 SF	4
APT 15	R-2	1,154 SF	200 SF	6
APT 16	R-2	886 SF	200 SF	4
CLUB ROOM WEST	R-2 ACC	876 SF	50 SF	18
ROOF TERRACE LOBBY	R-2 ACC	495 SF	50 SF	10
West Tower Occupancy Load Total				90

**EXIT QUANTITY AND CAPACITY PROVIDED**

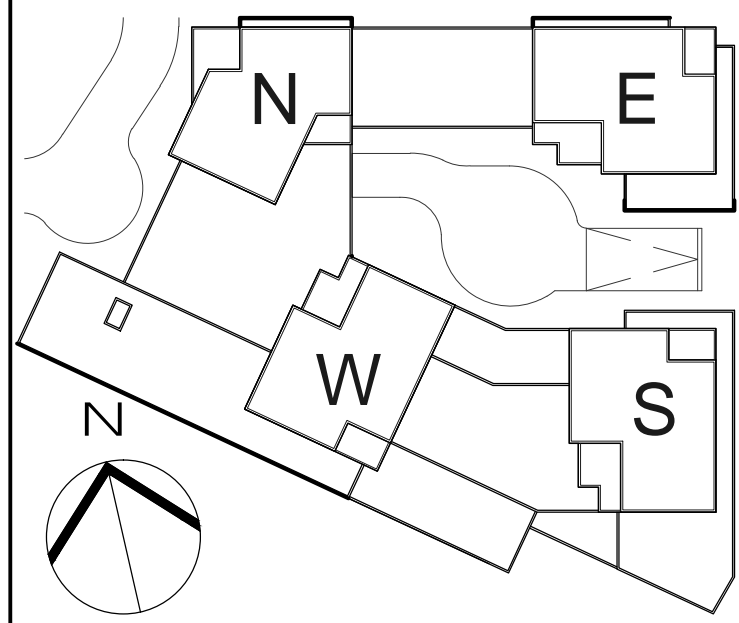
EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
<b>SOUTH WEST TOWER</b>			
STAIR A	45.0 IN.	0.30	150.0
STAIR B	45.0 IN.	0.30	150.0
STAIR C	45.0 IN.	0.30	150.0
STAIR D	45.0 IN.	0.30	150.0
STAIR J	45.0 IN.	0.30	150.0
STAIR X	45.0 IN.	0.30	150.0
TOTAL EXIT STAIR CAPACITY			900.0
STAIR A DOOR	36.0 IN.	0.20	180.0
STAIR B DOOR	36.0 IN.	0.20	180.0
STAIR C DOOR	36.0 IN.	0.20	180.0
STAIR D DOOR	36.0 IN.	0.20	180.0
STAIR J DOOR	36.0 IN.	0.20	180.0
STAIR X DOOR	36.0 IN.	0.20	180.0
TOTAL EXIT DOOR CAPACITY			1080.0
EXIT CAPACITY PROVIDED			900.0
<b>NORTH &amp; EAST TOWER</b>			
STAIR E	45.0 IN.	0.30	150.0
STAIR F	45.0 IN.	0.30	150.0
STAIR G	45.0 IN.	0.30	150.0
STAIR H	45.0 IN.	0.30	150.0
TOTAL EXIT STAIR CAPACITY			600.0
STAIR E DOOR	36.0 IN.	0.20	180.0
STAIR F DOOR	36.0 IN.	0.20	180.0
STAIR G DOOR	36.0 IN.	0.20	180.0
STAIR H DOOR	36.0 IN.	0.20	180.0
TOTAL EXIT DOOR CAPACITY			720.0
EXIT CAPACITY PROVIDED			600.0

1 6TH FLOOR PLAN  
3/32" = 1'-0"

6TH FLOOR OVERALL PLAN

DATE: 09/01/2015  
PROJECT #: 15006  
SCALE: 1/8" = 1'-0"  
A-106.00  
CADD FILE: J:\15006 101 Lincoln Ave\_S600  
S:\4125 OF 130





- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

09/01/2015 098 SUBMISSION

OWNER: THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
**G+WA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

MECHANICAL ENGINEER:  
VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER:  
AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
MPFP  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB DESIGN:

DOB STAMPS & SIGNATURES:

DATE: 09/01/2015

PROJECT #: 1506

SCALE: 1/8" = 1'-0"

7TH FLOOR OVERALL PLAN

DATE FILE: 11/15/08 101 Lincoln Ave. SoBro 5/4/11/2015 OF 130



**SEVENTH FLOOR OCCUPANT LOAD CALCULATIONS**

APARTMENT / ROOMS	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1004.1.2)	Occupant Load
<b>NORTH TOWER</b>				
APT 01	R-2	967 SF	200 SF	4
APT 02	R-2	831 SF	200 SF	4
APT 03	R-2	594 SF	200 SF	3
APT 04	R-2	1,140 SF	200 SF	6
APT 05	R-2	452 SF	200 SF	2
APT 06	R-2	928 SF	200 SF	5
APT 07	R-2	1,292 SF	200 SF	6
<b>North Tower Occupancy Load Total</b>				<b>31</b>
<b>EAST TOWER</b>				
APT 01	R-2	616 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	864 SF	200 SF	4
APT 05	R-2	458 SF	200 SF	2
APT 06	R-2	576 SF	200 SF	3
APT 07	R-2	986 SF	200 SF	5
APT 08	R-2	1,164 SF	200 SF	6
APT 09	R-2	858 SF	200 SF	4
<b>East Tower Occupancy Load Total</b>				<b>33</b>
<b>SOUTH TOWER</b>				
APT 01	R-2	561 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	864 SF	200 SF	4
APT 05	R-2	458 SF	200 SF	2
APT 06	R-2	576 SF	200 SF	3
APT 07	R-2	986 SF	200 SF	5
APT 08	R-2	1,164 SF	200 SF	6
APT 09	R-2	754 SF	200 SF	4
<b>South Tower Occupancy Load Total</b>				<b>32</b>
<b>WEST TOWER</b>				
APT 01	R-2	616 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	864 SF	200 SF	4
APT 05	R-2	871 SF	200 SF	4
APT 06	R-2	986 SF	200 SF	5
APT 07	R-2	1,164 SF	200 SF	6
APT 08	R-2	858 SF	200 SF	4
<b>West Tower Occupancy Load Total</b>				<b>32</b>
<b>SEVENTH FLOOR TOTAL OCCUPANT LOAD</b>				<b>128</b>

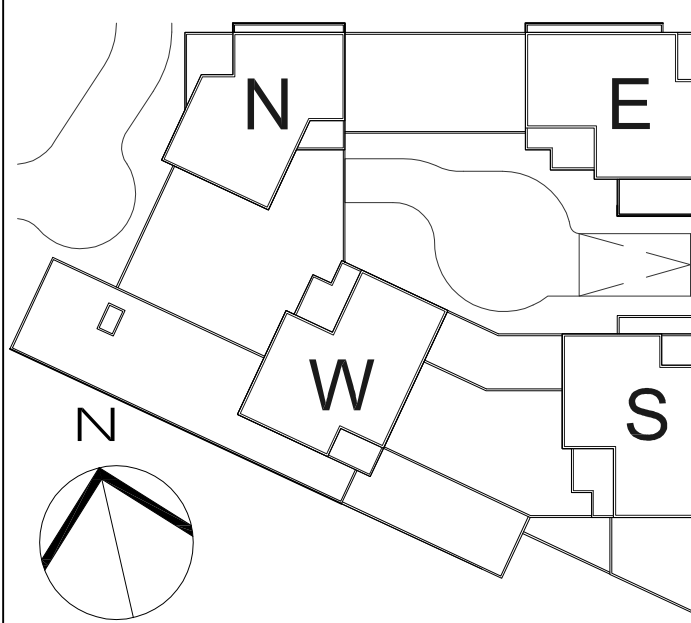
**EXIT QUANTITY AND CAPACITY PROVIDED**

EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
<b>SOUTH TOWER</b>			
STAIR A	45.0 IN.	0.30	150.0
STAIR B	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR A DOOR	36.0 IN.	0.20	180.0
STAIR B DOOR	36.0 IN.	0.20	180.0
<b>TOTAL DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>WEST TOWER</b>			
STAIR C	45.0 IN.	0.30	150.0
STAIR D	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR C DOOR	36.0 IN.	0.20	180.0
STAIR D DOOR	36.0 IN.	0.20	180.0
<b>TOTAL DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>NORTH TOWER</b>			
STAIR E	45.0 IN.	0.30	150.0
STAIR F	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR E DOOR	36.0 IN.	0.20	180.0
STAIR F DOOR	36.0 IN.	0.20	180.0
<b>TOTAL EXIT DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>EAST TOWER</b>			
STAIR G	45.0 IN.	0.30	150.0
STAIR H	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR G DOOR	36.0 IN.	0.20	180.0
STAIR H DOOR	36.0 IN.	0.20	180.0
<b>TOTAL EXIT DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>

**1 7TH FLOOR PLAN**  
3/32" = 1'-0"

**A-107.00**





**KEY PLAN**

- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number: 09/01/2015 Date: 09/01/2015  
 OWNER: THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
**GHW**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

ME/PFP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB BOARD:

DOB STAMPS & SIGNATURES:

DOB TITLE:

8TH - 18TH FLOOR OVERALL PLAN

DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/32" = 1'-0"  
**A-108.00**  
 SHEET 27 OF 130



1  
A-400

1  
A-401

**8TH - 18TH FLOORS OCCUPANT LOAD CALCULATIONS**

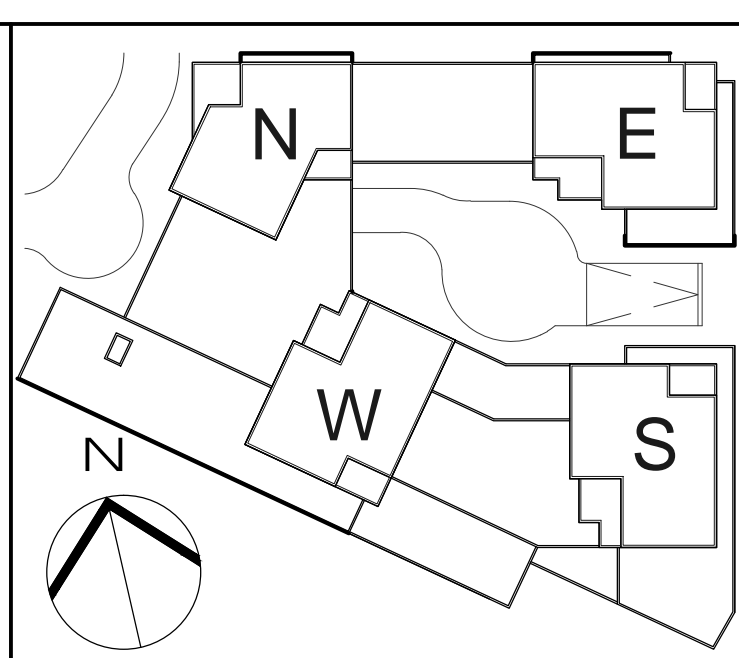
APARTMENT / ROOMS	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1004.1.2)	Occupant Load
<b>NORTH TOWER</b>				
APT 01	R-2	967 SF	200 SF	4
APT 02	R-2	831 SF	200 SF	4
APT 03	R-2	594 SF	200 SF	3
APT 04	R-2	1,140 SF	200 SF	6
APT 05	R-2	452 SF	200 SF	2
APT 06	R-2	928 SF	200 SF	5
APT 07	R-2	1,292 SF	200 SF	6
<b>North Tower Occupancy Load Total</b>				<b>31</b>
<b>EAST TOWER</b>				
APT 01	R-2	616 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	964 SF	200 SF	4
APT 05	R-2	458 SF	200 SF	2
APT 06	R-2	576 SF	200 SF	3
APT 07	R-2	986 SF	200 SF	5
APT 08	R-2	1,164 SF	200 SF	6
APT 09	R-2	858 SF	200 SF	4
<b>East Tower Occupancy Load Total</b>				<b>33</b>
<b>SOUTH TOWER</b>				
APT 01	R-2	561 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	964 SF	200 SF	4
APT 05	R-2	458 SF	200 SF	2
APT 06	R-2	576 SF	200 SF	3
APT 07	R-2	986 SF	200 SF	5
APT 08	R-2	1,164 SF	200 SF	6
APT 09	R-2	858 SF	200 SF	4
<b>South Tower Occupancy Load Total</b>				<b>33</b>
<b>WEST TOWER</b>				
APT 01	R-2	616 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	964 SF	200 SF	4
APT 05	R-2	458 SF	200 SF	2
APT 06	R-2	576 SF	200 SF	3
APT 07	R-2	986 SF	200 SF	5
APT 08	R-2	1,164 SF	200 SF	6
APT 09	R-2	858 SF	200 SF	4
<b>West Tower Occupancy Load Total</b>				<b>33</b>
<b>8TH - 18TH FLOORS TOTAL OCCUPANT LOAD</b>				<b>129</b>

**EXIT QUANTITY AND CAPACITY PROVIDED**

EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
<b>SOUTH TOWER</b>			
STAIR A	45.0 IN.	0.30	150.0
STAIR B	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR A DOOR	36.0 IN.	0.20	180.0
STAIR B DOOR	36.0 IN.	0.20	180.0
<b>TOTAL DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>WEST TOWER</b>			
STAIR C	45.0 IN.	0.30	150.0
STAIR D	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR C DOOR	36.0 IN.	0.20	180.0
STAIR D DOOR	36.0 IN.	0.20	180.0
<b>TOTAL DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>NORTH TOWER</b>			
STAIR E	45.0 IN.	0.30	150.0
STAIR F	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR E DOOR	36.0 IN.	0.20	180.0
STAIR F DOOR	36.0 IN.	0.20	180.0
<b>TOTAL EXIT DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>EAST TOWER</b>			
STAIR G	45.0 IN.	0.30	150.0
STAIR H	45.0 IN.	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR G DOOR	36.0 IN.	0.20	180.0
STAIR H DOOR	36.0 IN.	0.20	180.0
<b>TOTAL EXIT DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>

1 8TH-18TH FLOOR PLAN  
 3/32" = 1'-0"





- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number: 09/1/2015 Date: 09/1/2015 Reason: 003-SUBMIT

OWNER:  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
**G+WA**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

METFP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB SSCAN:

DOB STAMPS & SIGNATURES:

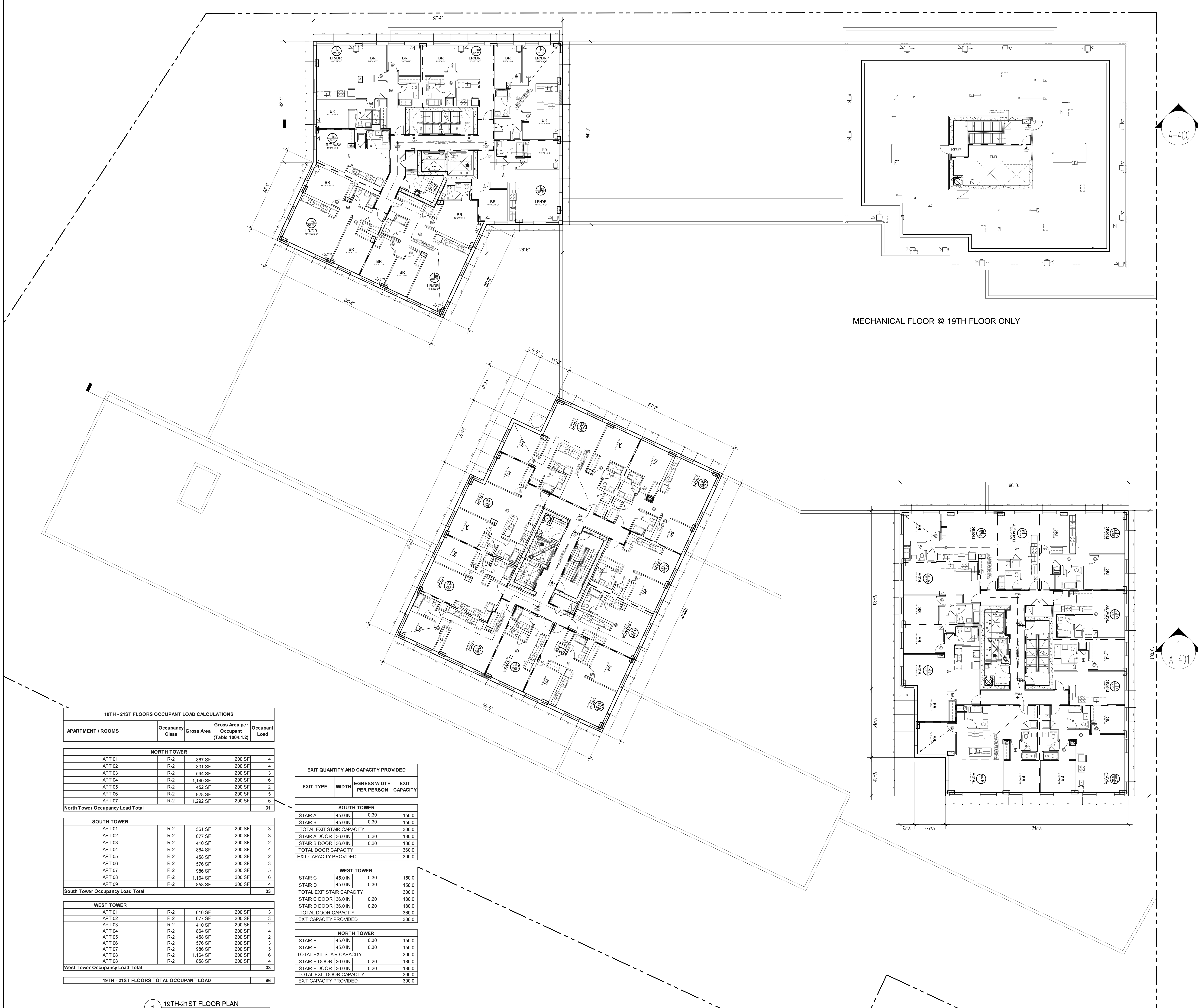
DWG TITLE:  
**19TH -21ST FLOOR OVERALL PLAN**

SCALE: 1/8" = 1'-0"

DATE: 09/01/2015  
 PROJECT #: 15006  
 SCALE: 1/8" = 1'-0"

**A-109.00**

CAD FILE: J:\15006 101 Lincoln Ave\_SoBro\_S441228 OF 130



MECHANICAL FLOOR @ 19TH FLOOR ONLY

**19TH - 21ST FLOORS OCCUPANT LOAD CALCULATIONS**

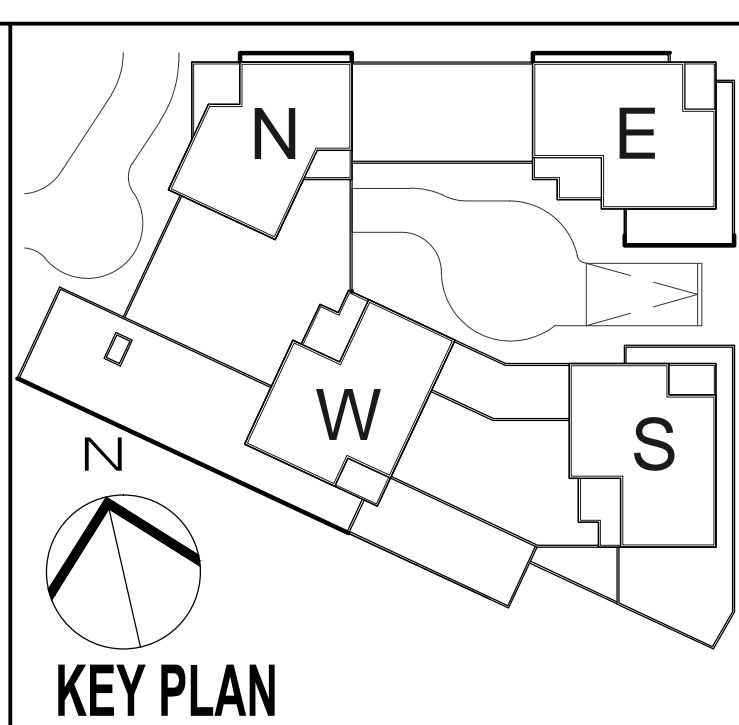
APARTMENT / ROOMS	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1004.1.2)	Occupant Load
<b>NORTH TOWER</b>				
APT 01	R-2	867 SF	200 SF	4
APT 02	R-2	831 SF	200 SF	4
APT 03	R-2	594 SF	200 SF	3
APT 04	R-2	1,140 SF	200 SF	6
APT 05	R-2	452 SF	200 SF	2
APT 06	R-2	928 SF	200 SF	5
APT 07	R-2	1,292 SF	200 SF	6
<b>North Tower Occupancy Load Total</b>				<b>31</b>
<b>SOUTH TOWER</b>				
APT 01	R-2	561 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	864 SF	200 SF	4
APT 05	R-2	458 SF	200 SF	2
APT 06	R-2	576 SF	200 SF	3
APT 07	R-2	986 SF	200 SF	5
APT 08	R-2	1,164 SF	200 SF	6
APT 09	R-2	858 SF	200 SF	4
<b>South Tower Occupancy Load Total</b>				<b>33</b>
<b>WEST TOWER</b>				
APT 01	R-2	616 SF	200 SF	3
APT 02	R-2	677 SF	200 SF	3
APT 03	R-2	410 SF	200 SF	2
APT 04	R-2	864 SF	200 SF	4
APT 05	R-2	458 SF	200 SF	2
APT 06	R-2	576 SF	200 SF	3
APT 07	R-2	986 SF	200 SF	5
APT 08	R-2	1,164 SF	200 SF	6
APT 09	R-2	858 SF	200 SF	4
<b>West Tower Occupancy Load Total</b>				<b>33</b>
<b>19TH - 21ST FLOORS TOTAL OCCUPANT LOAD</b>				<b>96</b>

**EXIT QUANTITY AND CAPACITY PROVIDED**

EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
<b>SOUTH TOWER</b>			
STAIR A	45.0 IN	0.30	150.0
STAIR B	45.0 IN	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR A DOOR	36.0 IN	0.20	180.0
STAIR B DOOR	36.0 IN	0.20	180.0
<b>TOTAL DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>WEST TOWER</b>			
STAIR C	45.0 IN	0.30	150.0
STAIR D	45.0 IN	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR C DOOR	36.0 IN	0.20	180.0
STAIR D DOOR	36.0 IN	0.20	180.0
<b>TOTAL DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>
<b>NORTH TOWER</b>			
STAIR E	45.0 IN	0.30	150.0
STAIR F	45.0 IN	0.30	150.0
<b>TOTAL EXIT STAIR CAPACITY</b>			<b>300.0</b>
STAIR E DOOR	36.0 IN	0.20	180.0
STAIR F DOOR	36.0 IN	0.20	180.0
<b>TOTAL DOOR CAPACITY</b>			<b>360.0</b>
<b>EXIT CAPACITY PROVIDED</b>			<b>300.0</b>

1 19TH-21ST FLOOR PLAN  
 3/32" = 1'-0"





- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - ☼ SMOKE CARBON MONOXIDE DETECTOR
  - ☼ WALL MOUNTED EXIT SIGN & LIGHT
  - ☼ CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

08/11/2015 09:58:58 AM

OWNER:  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
**G+WA**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 16TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MECHANICAL ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB DESIGN:

DOB STAMPS & SIGNATURES:

DWG TITLE:  
**22ND - 25TH FLOOR OVERALL PLAN**

DATE: 08/11/2015  
 PROJECT #: 15406  
 SCALE: 1/8" = 1'-0"  
**A-110.00**  
 DWG FILE: J:\15406\101 Lincoln Ave. SDR\ 5/4/12/29 OF 130



**EXIT QUANTITY AND CAPACITY PROVIDED**

EXIT TYPE	WIDTH	EGRESS WIDTH PER PERSON	EXIT CAPACITY
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**SOUTH TOWER**

STAIR A	45.0 IN.	0.30	150.0
STAIR B	45.0 IN.	0.30	150.0
TOTAL EXIT STAIR CAPACITY			300.0
STAIR A DOOR	36.0 IN.	0.20	180.0
STAIR B DOOR	36.0 IN.	0.20	180.0
TOTAL DOOR CAPACITY			360.0
EXIT CAPACITY PROVIDED			300.0

**WEST TOWER**

STAIR C	45.0 IN.	0.30	150.0
STAIR D	45.0 IN.	0.30	150.0
TOTAL EXIT STAIR CAPACITY			300.0
STAIR C DOOR	36.0 IN.	0.20	180.0
STAIR D DOOR	36.0 IN.	0.20	180.0
TOTAL DOOR CAPACITY			360.0
EXIT CAPACITY PROVIDED			300.0

**NORTH TOWER**

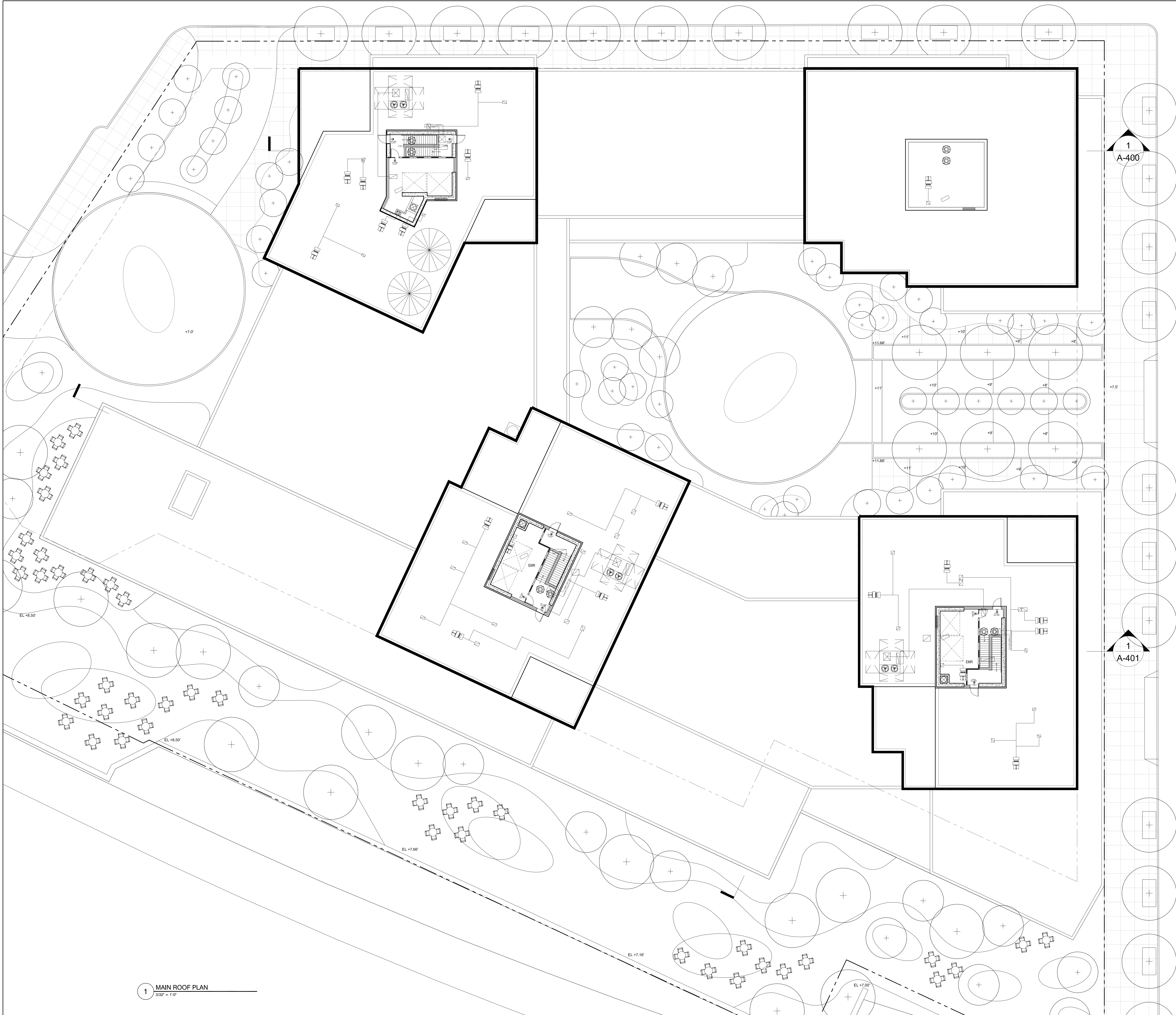
STAIR E	45.0 IN.	0.30	150.0
STAIR F	45.0 IN.	0.30	150.0
TOTAL EXIT STAIR CAPACITY			300.0
STAIR E DOOR	36.0 IN.	0.20	180.0
STAIR F DOOR	36.0 IN.	0.20	180.0
TOTAL EXIT DOOR CAPACITY			360.0
EXIT CAPACITY PROVIDED			300.0

**22ND - 25TH FLOORS OCCUPANT LOAD CALCULATIONS**

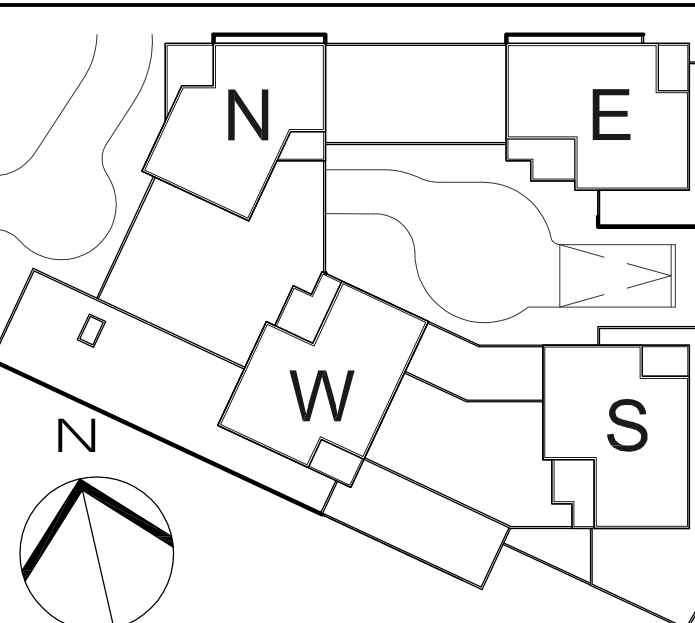
APARTMENT / ROOMS	Occupancy Class	Gross Area	Gross Area per Occupant (Table 1004.1.2)	Occupant Load
<b>NORTH TOWER</b>				
APT 01	R-2	1,241 SF	200 SF	6
APT 02	R-2	1,474 SF	200 SF	7
APT 03	R-2	945 SF	200 SF	5
APT 04	R-2	1,473 SF	200 SF	7
<b>North Tower Occupancy Load Total</b>				<b>26</b>
<b>SOUTH TOWER</b>				
APT 01	R-2	1,899 SF	200 SF	9
APT 02	R-2	1,246 SF	200 SF	6
APT 03	R-2	1,232 SF	200 SF	6
APT 04	R-2	1,256 SF	200 SF	6
<b>South Tower Occupancy Load Total</b>				<b>28</b>
<b>WEST TOWER</b>				
APT 01	R-2	1,256 SF	200 SF	6
APT 02	R-2	1,232 SF	200 SF	6
APT 03	R-2	1,246 SF	200 SF	6
APT 04	R-2	1,899 SF	200 SF	9
<b>West Tower Occupancy Load Total</b>				<b>28</b>
<b>22ND - 25TH FLOORS TOTAL OCCUPANT LOAD</b>				<b>82</b>

**1 22ND-25TH FLOOR PLAN**  
 3/32" = 1'-0"





1 MAIN ROOF PLAN  
3/32" = 1'-0"



**KEY PLAN**

LEGEND:

- 1-HOUR RATED WALL
- 2-HOUR RATED WALL
- 3-HOUR RATED WALL
- TRAVEL DISTANCE
- SMOKE/CARBON MONOXIDE DETECTOR
- ⊕ WALL MOUNTED EXIT SIGN & LIGHT
- ⊕ CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	Date:	Revision:
	09/01/2015	028 SUBMISSION

OWNER:

THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT:

SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE - BROOK, NY 10451

EXECUTIVE ARCHITECT:

**GHWA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:

DESIMONE  
CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

ME/PFP ENGINEER:

VENTROP ENGINEERING  
CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

ENR ENGINEER:

AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT:

MPPFP  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:

PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB BOARD:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

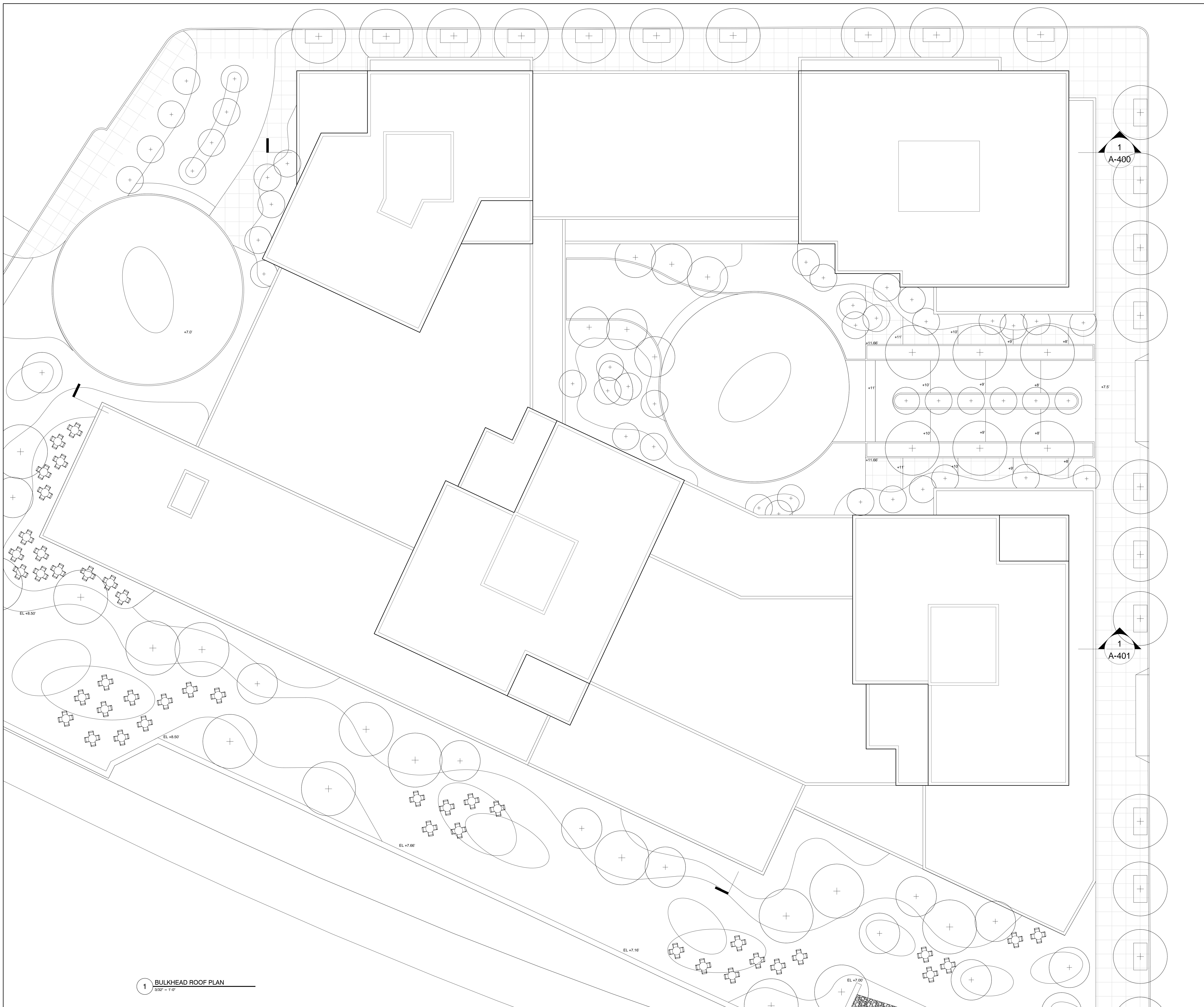
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DWG TITLE:

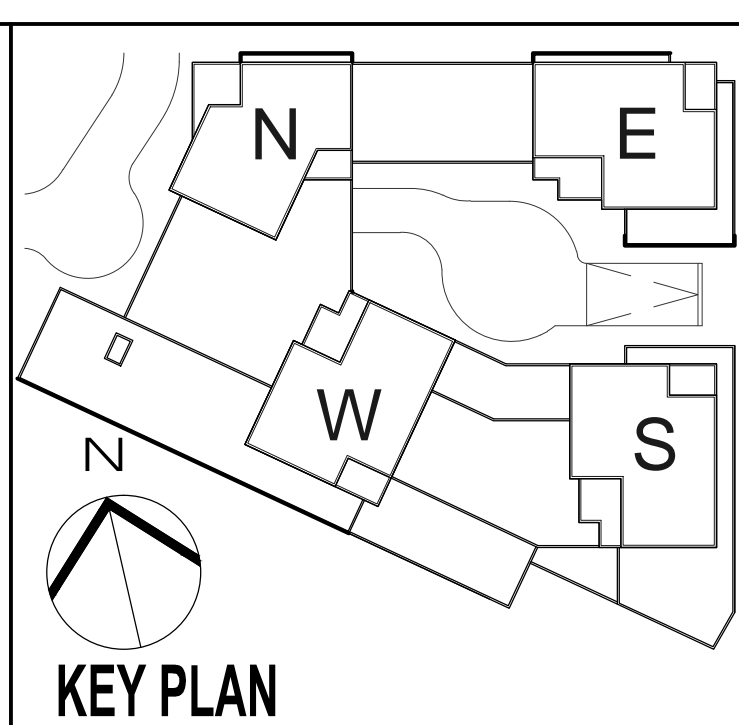
ROOF  
OVERALL PLAN

SCALE:	DATE:
1/8" = 1'-0"	09/01/2015
PROJECT #:	SCALE:
15048	1/8" = 1'-0"
DWG NO.	A-111.00
1361/30	





**1 BULKHEAD ROOF PLAN**  
3/32" = 1'-0"



**KEY PLAN**

**NOT FOR CONSTRUCTION**

Number	Date	Reason
	09/01/2015	DIS SUBMITTAL

**OWNER:**  
THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018  
SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

**PROJECT:**  
SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE BRONX, NY 10451

**DESIGNER ARCHITECT:**  
**G+WA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
DESIMONE  
CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

**METFP ENGINEER:**  
VENTROP ENGINEERING  
CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

**CIVIL ENGINEER:**  
AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
MPFP  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

**GEOTECHNICAL ENGINEER:**  
PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**CONSULTANT:**

**DOB ESCAN:**

**DOB ESCAN:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

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**DOB STAMPS & SIGNATURES:**

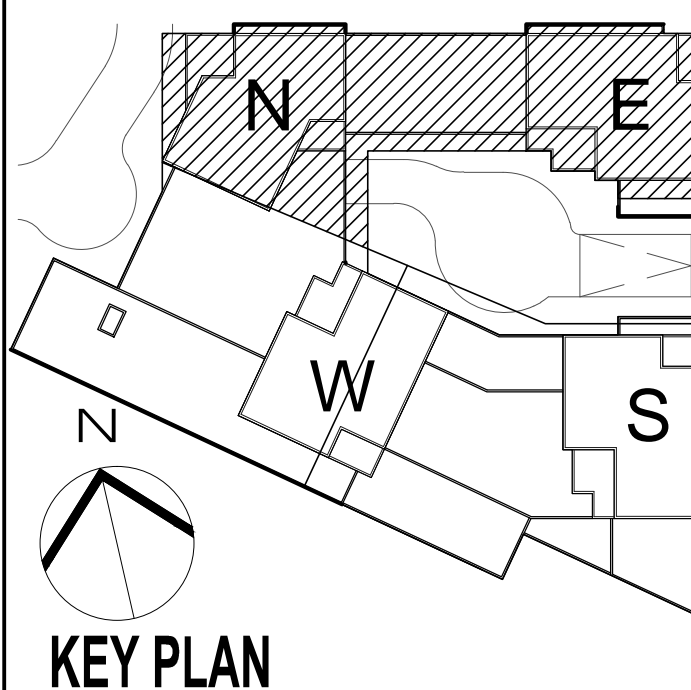
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**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

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<b>PROJECT #:</b> 1500
<b>SCALE:</b> 3/32" = 1'-0"
<b>A-112.00</b>

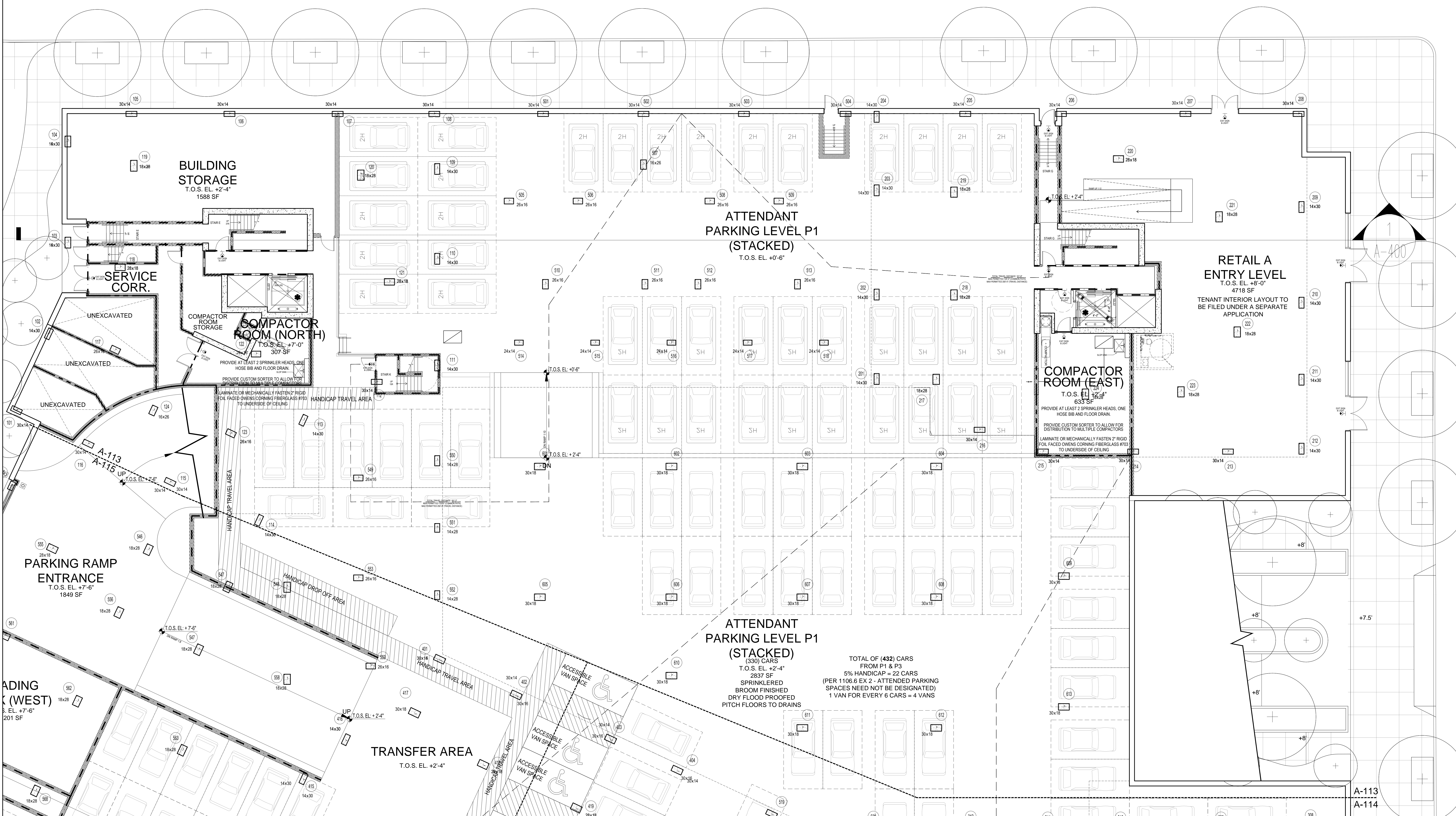




- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

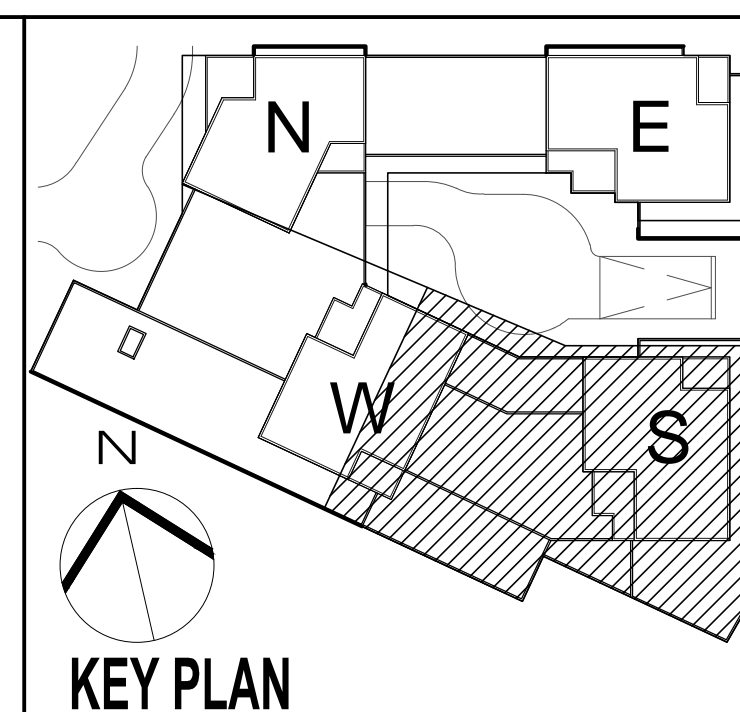
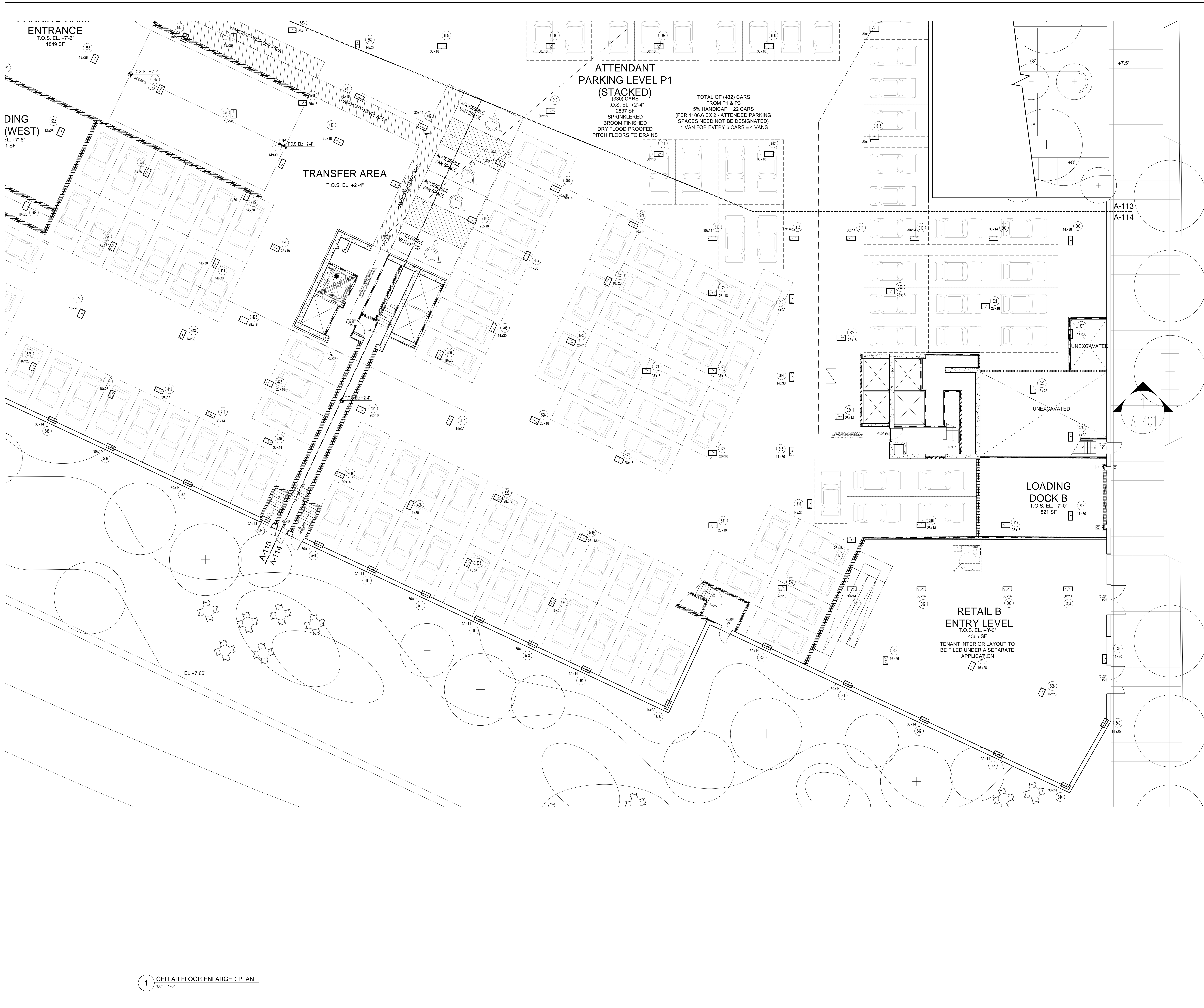
**NOT FOR CONSTRUCTION**

Number:	09/10/15	003 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	G+WA Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10021	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Sign:		
DOB Stamps & Signatures:		
DOB Title:		
CELLAR FLOOR ENLARGED PLAN		
Seal & Signature:	Date:	09/10/2015
Project #:	1505	
Scale:	1/8" = 1'-0"	
Sheet:	A-113.00	
Drawn By:	JH	
Checked By:	JH	
Scale:	1/8" = 1'-0"	
Sheet:	A-113.00	
Drawn By:	JH	
Checked By:	JH	



**1 CELLAR FLOOR ENLARGED PLAN**  
1/8" = 1'-0"





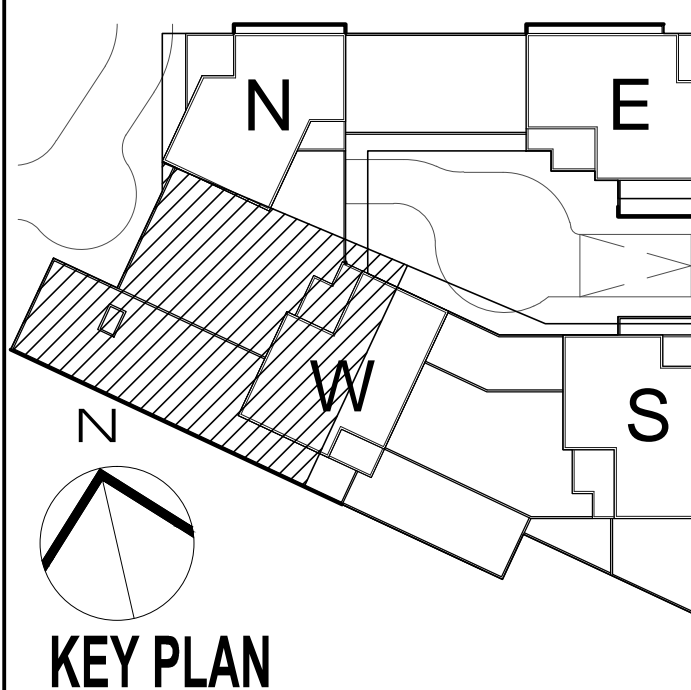
- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	001/015	003 SUBMISSION
Owner:	THE CHERIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	<b>G+WA</b> Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
Mechanical Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/PFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB STAMPS & SIGNATURES:		
Drawn Title:	<b>CELLAR FLOOR ENLARGED PLAN</b>	
Scale & Signature:	DATE: 09/01/2015 PROJECT #: 15408 SCALE: 1/8" = 1'-0" <b>A-114.00</b>	SHEET 33 OF 130

**1 CELLAR FLOOR ENLARGED PLAN**  
1/8" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number: 19012915 Date: 03/23/2015  
 Revision: 003 SUBMISSION

OWNER:  
 THE CHETRI GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE, BRONX, NY 10451

ARCHITECT:  
**GHW**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEPP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 M/FPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

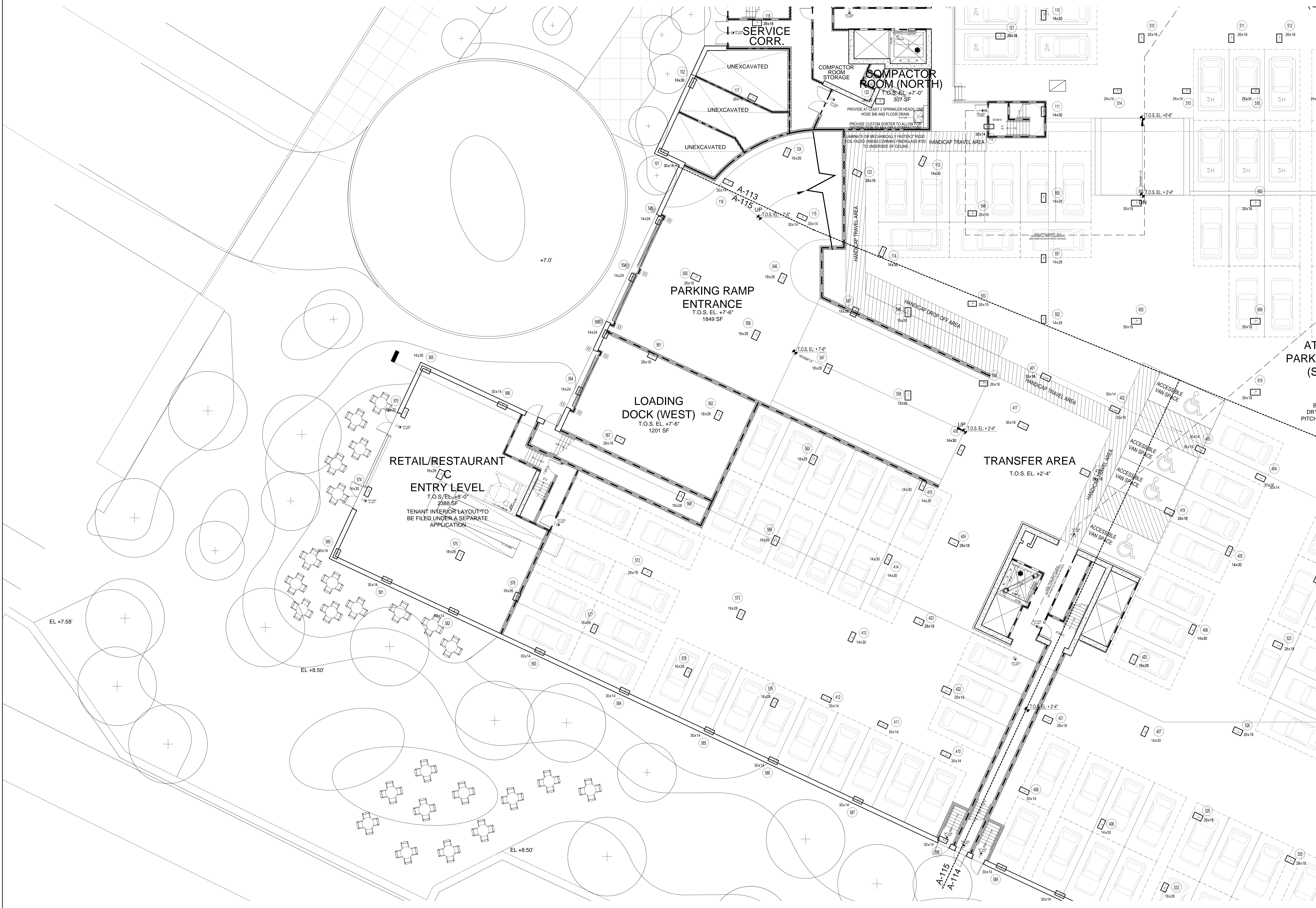
JOB DESIGN:

JOB STAMPS & SIGNATURES:

LONG TITLE:  
**CELLAR ENLARGED PLAN**

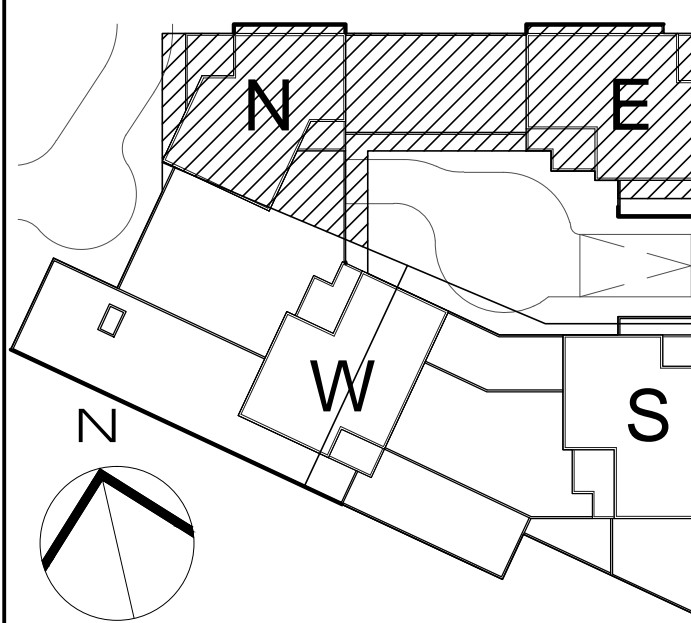
DATE: 03/23/2015  
 PROJECT #: 19012915  
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**A-115.00**

CAD FILE: 2115498 101 Lincoln Av\_S880 SHEET 34 OF 130



1 CELLAR ENLARGED PLAN  
 1/8" = 1'-0"



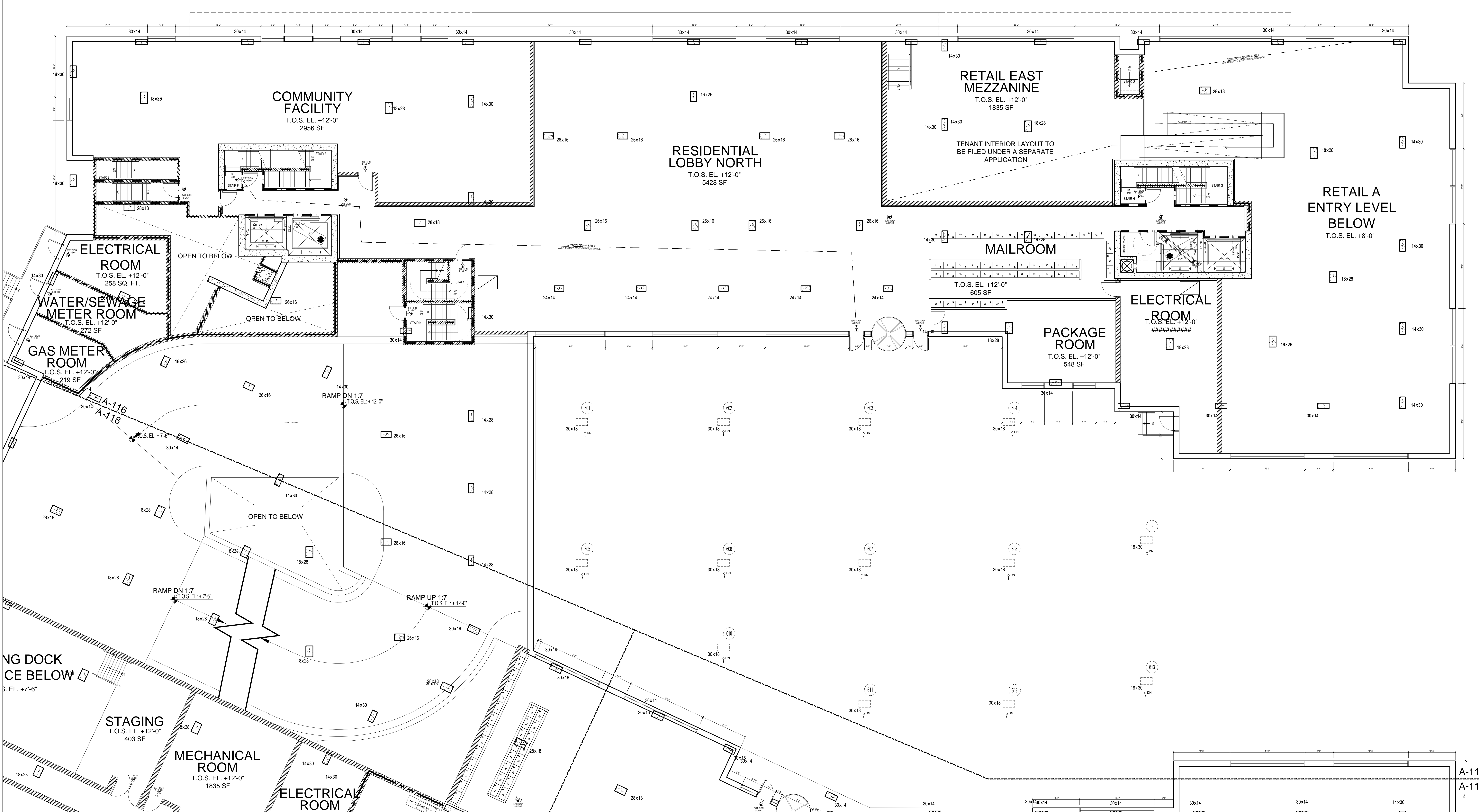


**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

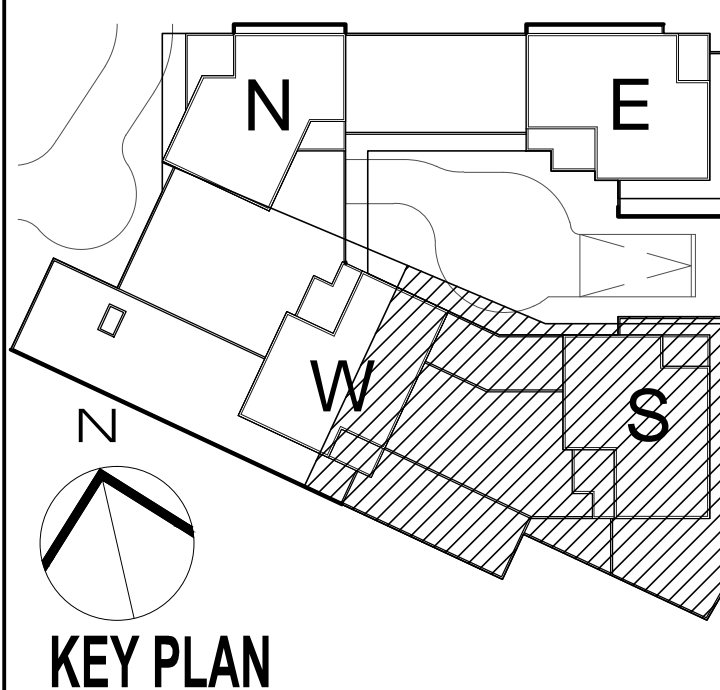
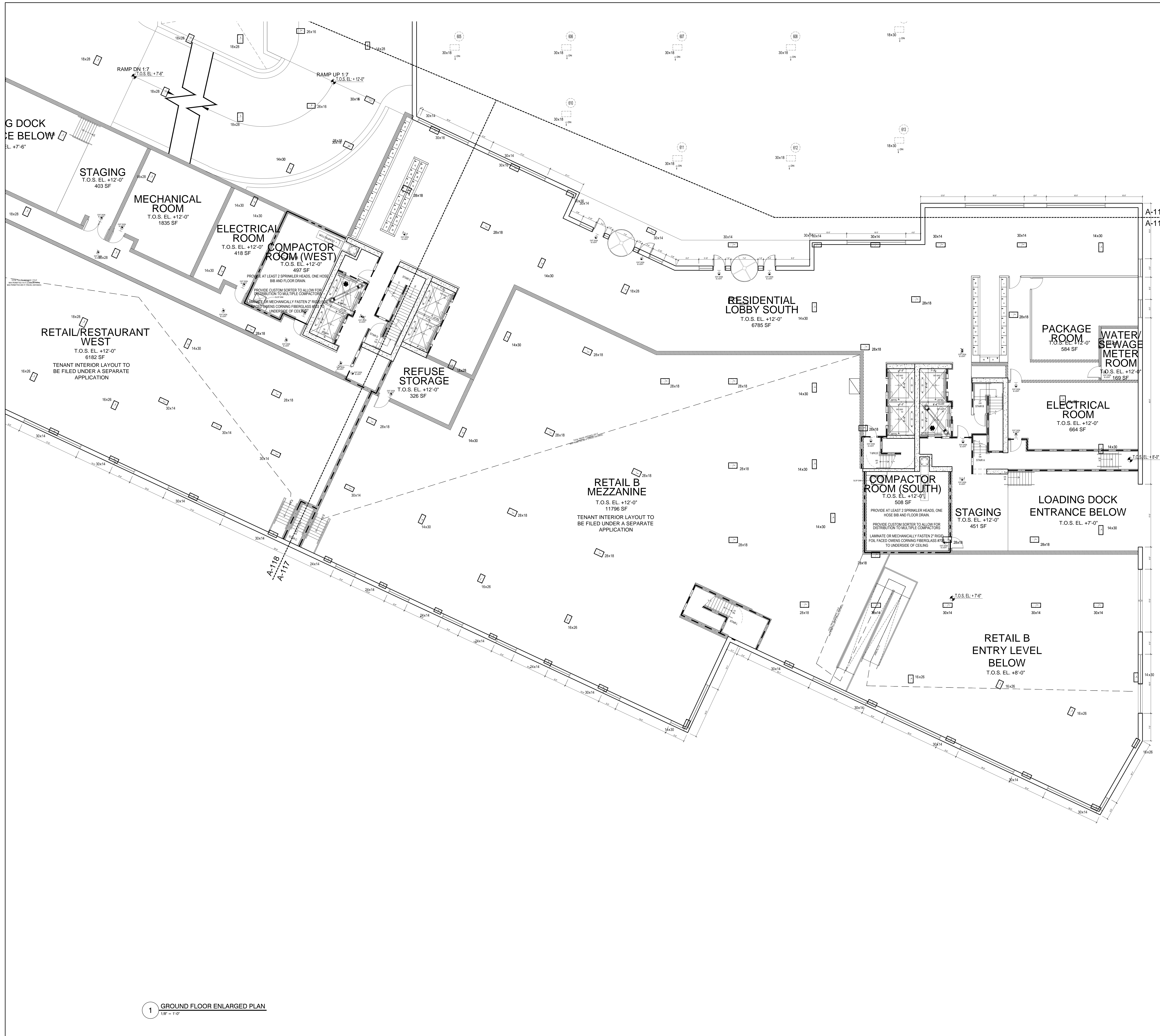
**NOT FOR CONSTRUCTION**

Number:	08/01/2015	Revision:	003 SUBMISSION
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL. NEW YORK, NY 10018		
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL. NEW YORK, NY 10022		
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451		
REGISTERED ARCHITECT:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271		
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
CONSULTANT:			
CONSULTANT:			
DOB DESIGN:			
DOB STAMPS & SIGNATURES:			
DWG TITLE:	GROUND FLOOR ENLARGED PLAN		
SEAL & SIGNATURE:	DATE:	08/01/2015	
	PROJECT #:	15458	
	SCALE:	1/8" = 1'-0"	
	<b>A-116.00</b>		
CAD FILE: 215458 101 Lincoln Av_S88r	SHEET 35	OF	130



**1 GROUND FLOOR ENLARGED PLAN**  
1/8" = 1'-0"





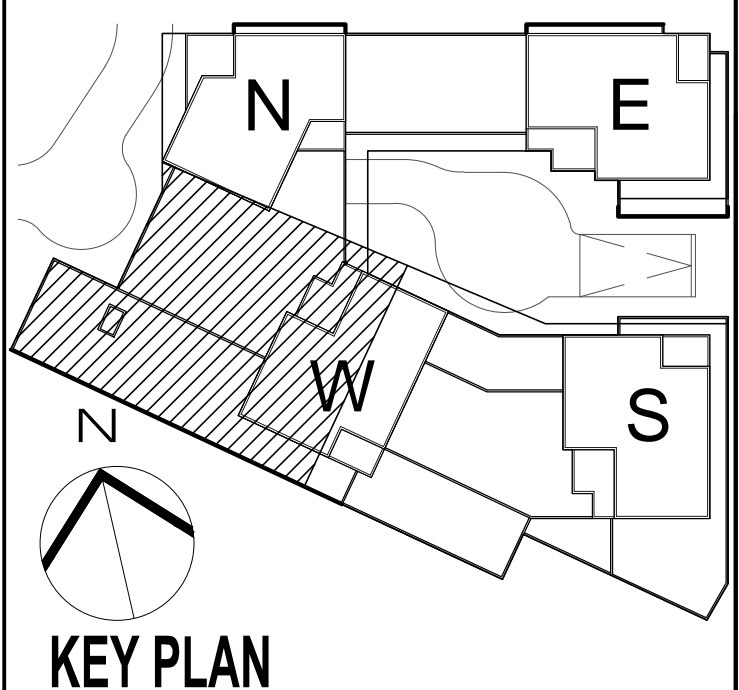
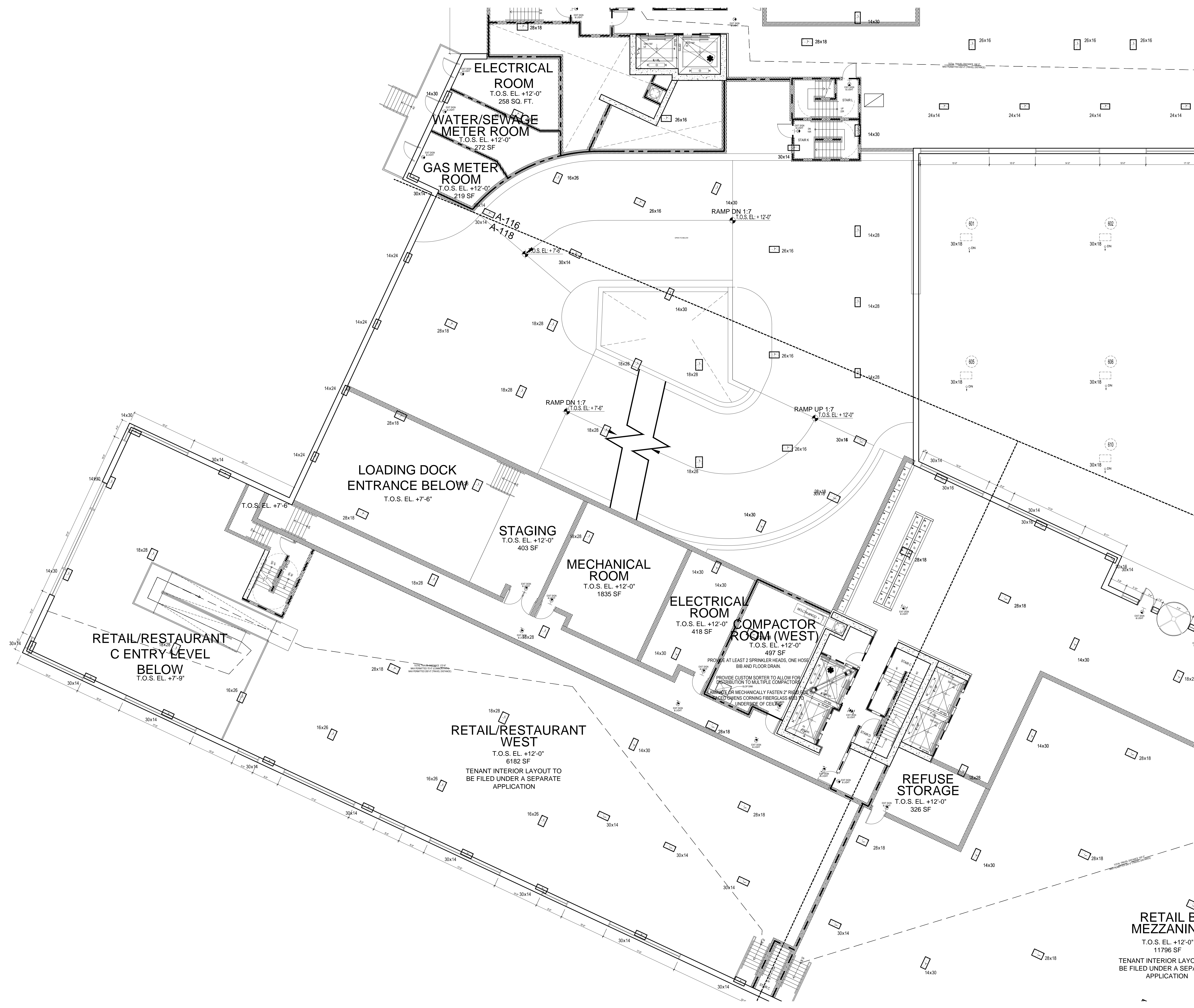
- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/12/15	Revision:	003 SUBMISSION
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022		
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451		
DESIGN ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
LANDSCAPE ARCHITECT:	M/PFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271		
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
CONSULTANT:			
CONSULTANT:			
DOB DESIGN:			
DOB STAMPS & SIGNATURES:			
OWNER TITLE:	<b>GROUND FLOOR ENLARGED PLAN</b>		
SEAL & SIGNATURE:	DATE:	08/01/2015	
	PROJECT #:	15408	
	SCALE:	1/8" = 1'-0"	
	<b>A-117.00</b>		
CAD FILE: 2115408 101 Lincoln Av_SoBro		SHEET 36 OF 130	

**1 GROUND FLOOR ENLARGED PLAN**  
1/8" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	001/015	Revision:	001 SUBMISSION
OWNER:	THE CHETREIT GROUP LLC 512 7TH AVENUE, 15TH FL. NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL. NEW YORK, NY 10022		
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451		
REGISTERED ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10021		
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
CONSULTANT:			
CONSULTANT:			
DOB DESIGN:			
DOB STAMPS & SIGNATURES:			
OWNER TITLE:	<b>GROUND FLOOR ENLARGED PLAN</b>		
SCALE & SIGNATURE:	DATE:	08/01/2015	
	PROJECT #:	15408	
	SCALE:	1/8" = 1'-0"	
			<b>A-118.00</b>
CAD FILE: 2115408 101 Lincoln Av_S&B.dwg			SHEET 37 OF 130

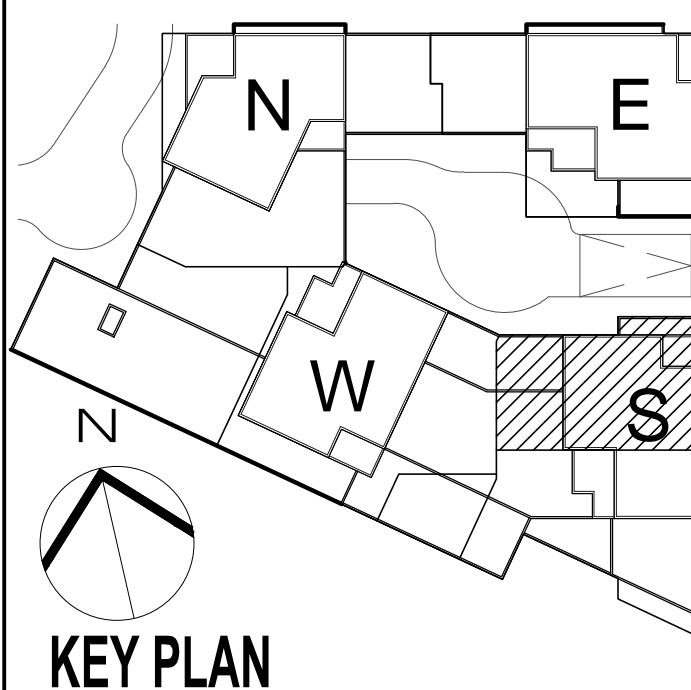
**1 GROUND FLOOR ENLARGED PLAN**  
1/8" = 1'-0"

**RETAIL MEZZANIN**  
T.O.S. EL. +12'-0"  
11796 SF  
TENANT INTERIOR LAYO  
BE FILED UNDER A SEP  
APPLICATION









- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

08/10/2015 JOB SUBMISSION  
 Number: 1501 Date: Revision:

OWNER:  
 THE CHETRI GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT:  
 SoRo - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

REGISTERED ARCHITECT:  
**G+HWA**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEPP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MFPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

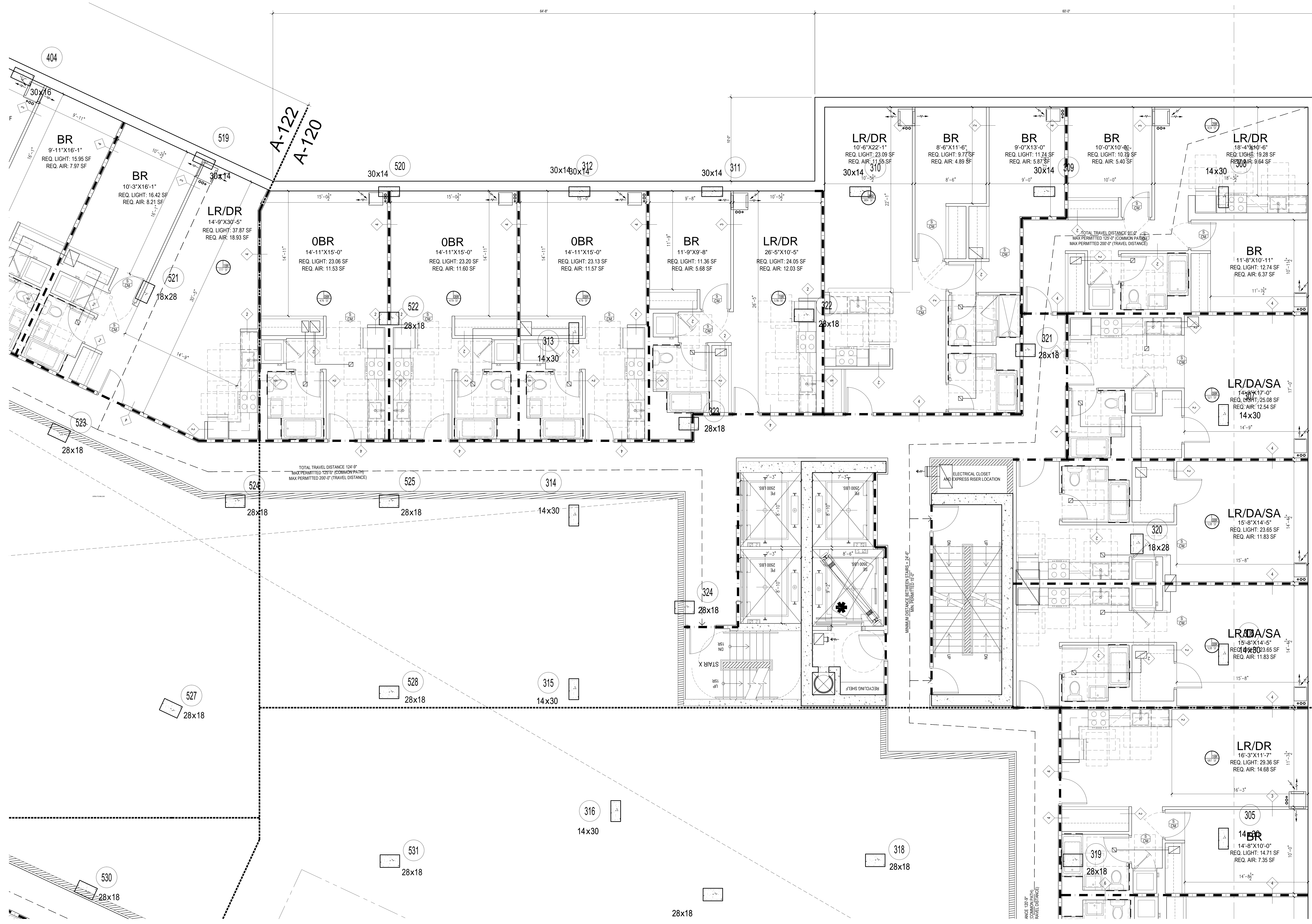
DOB DESIGN:

DOB STAMPS & SIGNATURES:

DOB TITLE:

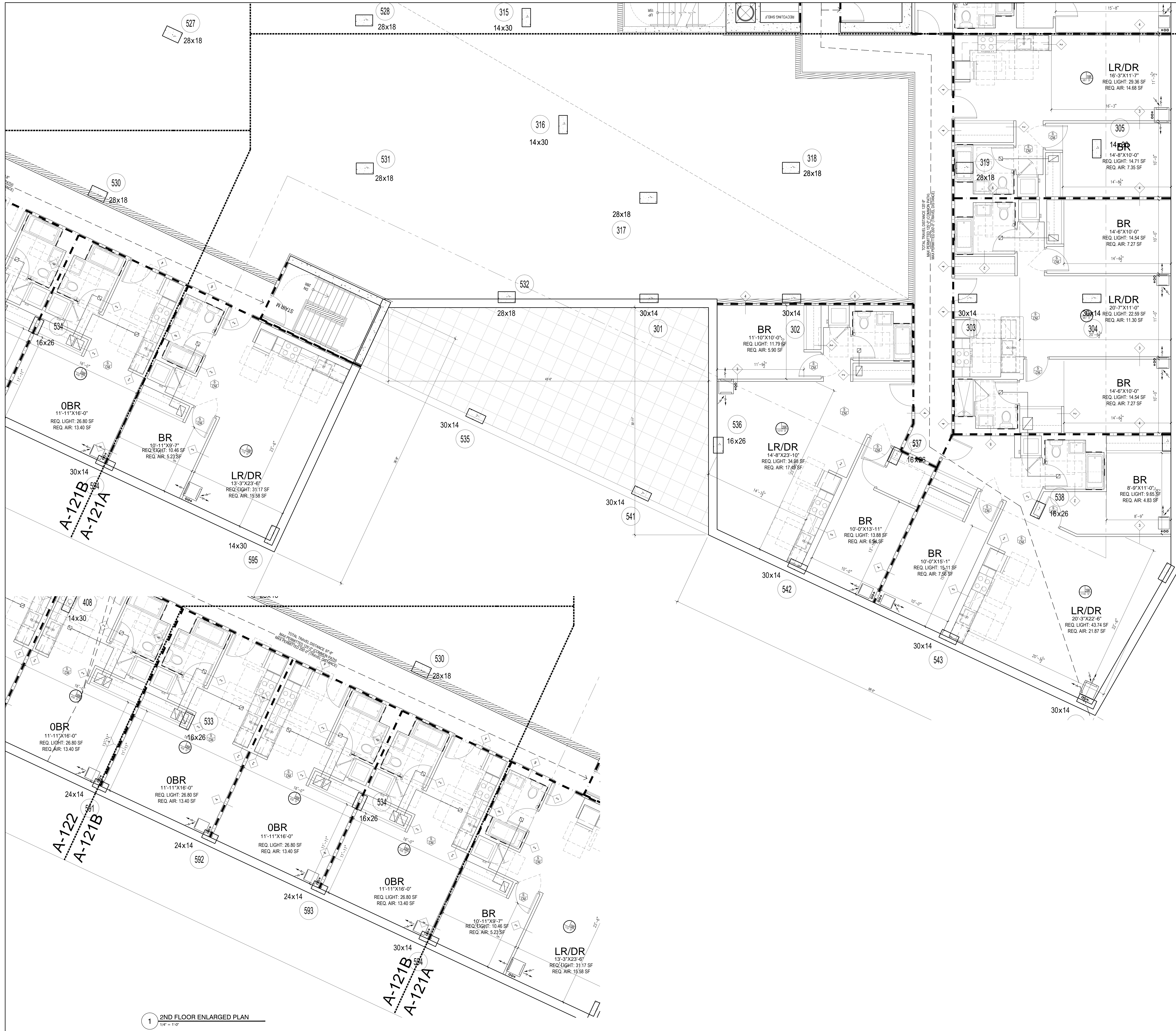
**2ND FLOOR ENLARGED PLAN**

SEAL & SIGNATURE: DATE: 08/10/2015  
 PROJECT #: 1501  
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**A-120.00**  
 CAD FILE: J:\1508\101 Lincoln Av\_SoRo  
 DWG NO.: SHEET 39 OF 130

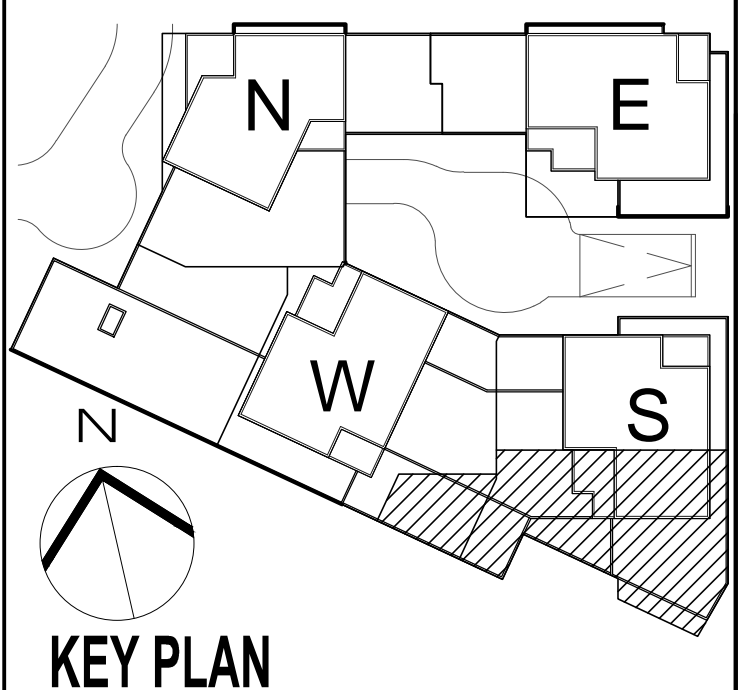


**2ND FLOOR ENLARGED PLAN**  
 1/4" = 1'-0"





A-120  
A-121A



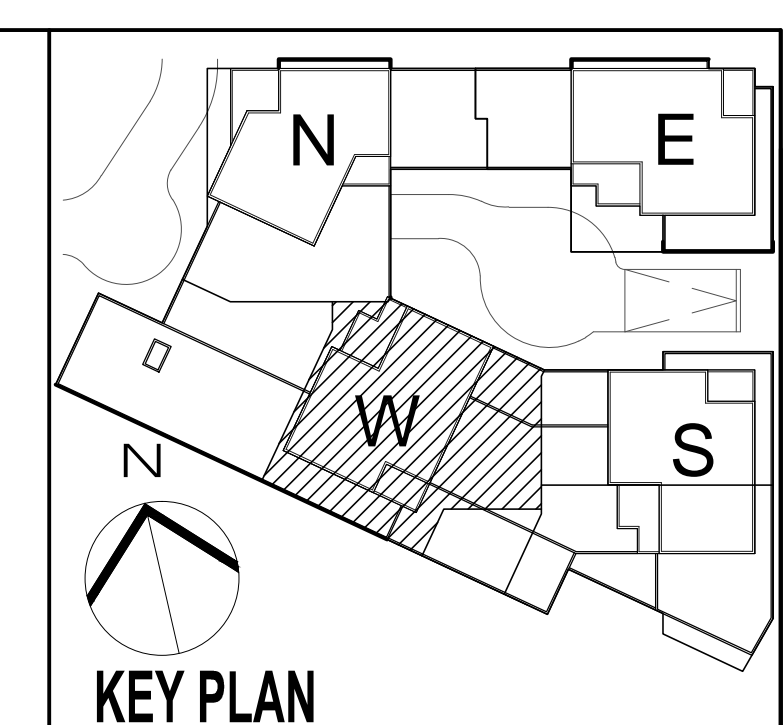
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- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/01/2015	003 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB Stamps & Signatures:		
Drawn Title:	2ND FLOOR ENLARGED PLAN	
Scale & Signature:	DATE: 08/01/2015	PROJECT # : 1500
	SCALE: 1/8" = 1'-0"	A-121.00
CAD FILE: 215498 101 Lincoln Av_S8r0	DWG NO.:	SHEET 40 OF 130

1 2ND FLOOR ENLARGED PLAN  
1/4" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL. NEW YORK, NY 10018
OWNER:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL. NEW YORK, NY 10022
PROJECT:	SoRo - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451
DESIGNER ARCHITECT:	GHWA Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879
CONSULTANT:	
CONSULTANT:	
DOB DESIGN:	
DOB STAMPS & SIGNATURES:	

**GHWA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

M/FPF  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

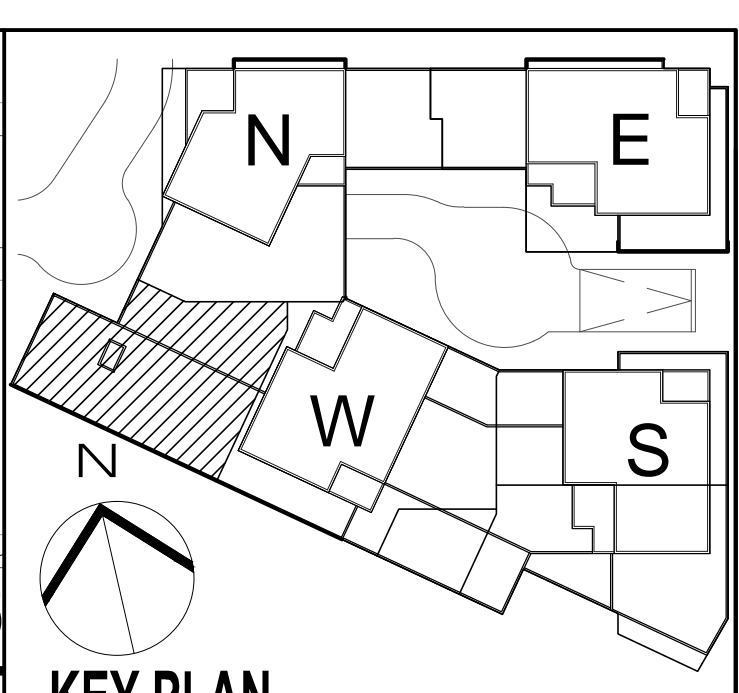
PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

**2ND FLOOR ENLARGED PLAN**

DATE:	08/01/2015
PROJECT #:	15010
SCALE:	1/4" = 1'-0"
DWG NO.:	A-122.00
SHEET #:	41 OF 130

**1 2ND FLOOR ENLARGED PLAN**  
1/4" = 1'-0"





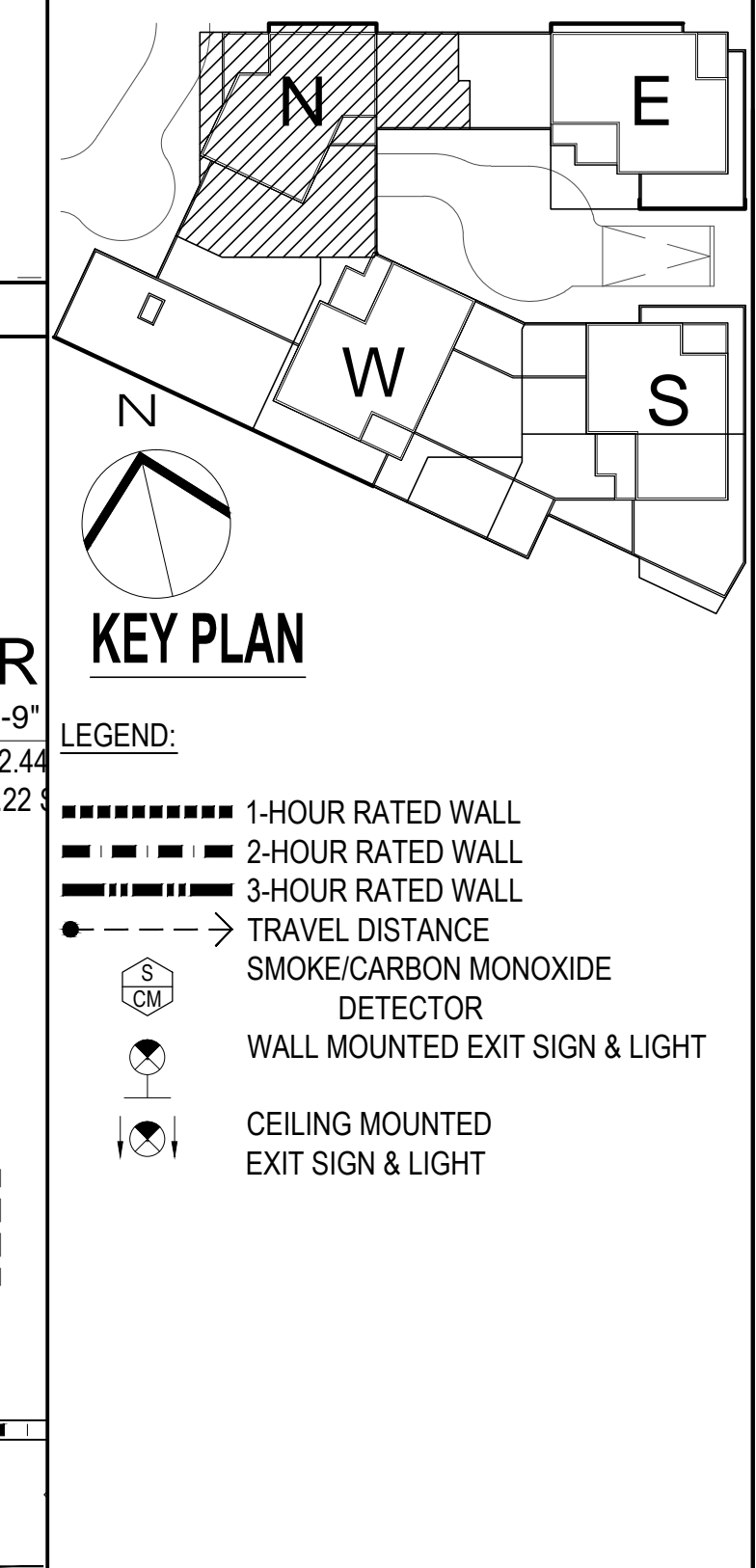
- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/10/2015	003 SUBMISSION
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
EXECUTIVE ARCHITECT:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10021	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
DOB DESIGN:		
DOB STAMPS & SIGNATURES:		
DOB TITLE:		
<b>2ND FLOOR ENLARGED PLAN</b>		
DATE:	08/10/2015	
PROJECT #:	1508	
SCALE:	1/4" = 1'-0"	
<b>A-123.00</b>		
CAD FILE:	215408 101 Lincoln Ave_S88r	
SHEET:	42	OF 130

**1 2ND FLOOR ENLARGED PLAN**  
1/4" = 1'-0"



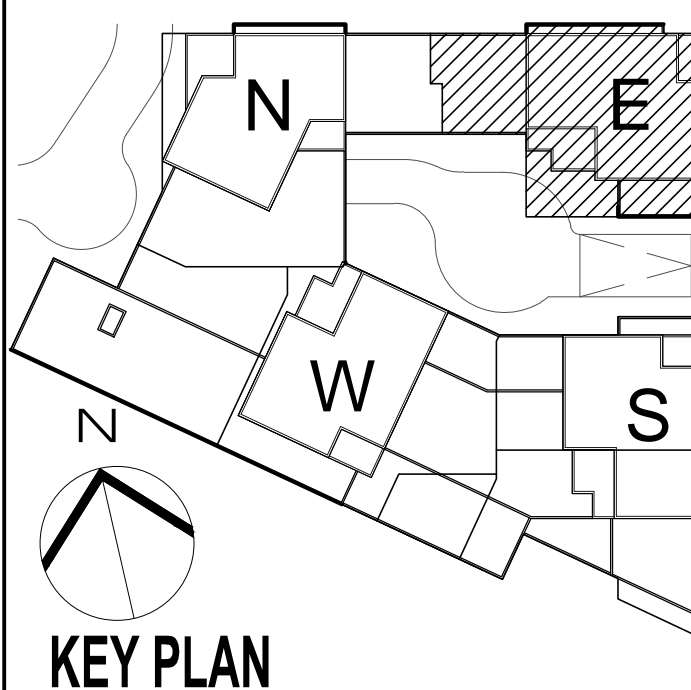


NOT FOR CONSTRUCTION

Number:	08/12/15	008 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
Owner:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Graphic Architect:	GHW Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB Stamps & Signatures:		
DOB Title:	2ND FLOOR ENLARGED PLAN	
Scale & Signature:	DATE: 08/12/15	PROJECT #:
Scale & Signature:	SCALE: 1/4" = 1'-0"	
Scale & Signature:	A-124.00	
Scale & Signature:	DATE: 08/12/15	SHEET #:
Scale & Signature:	DATE: 08/12/15	SHEET #:

2ND FLOOR ENLARGED PLAN  
1/4" = 1'-0"





- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number: 08/01/2015  
 Title: Revision

OWNER:  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE, BRONX, NY 10451

DESIGNER ARCHITECT:  
**GTHWA**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEPP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 M/FPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

JOB DESIGN:

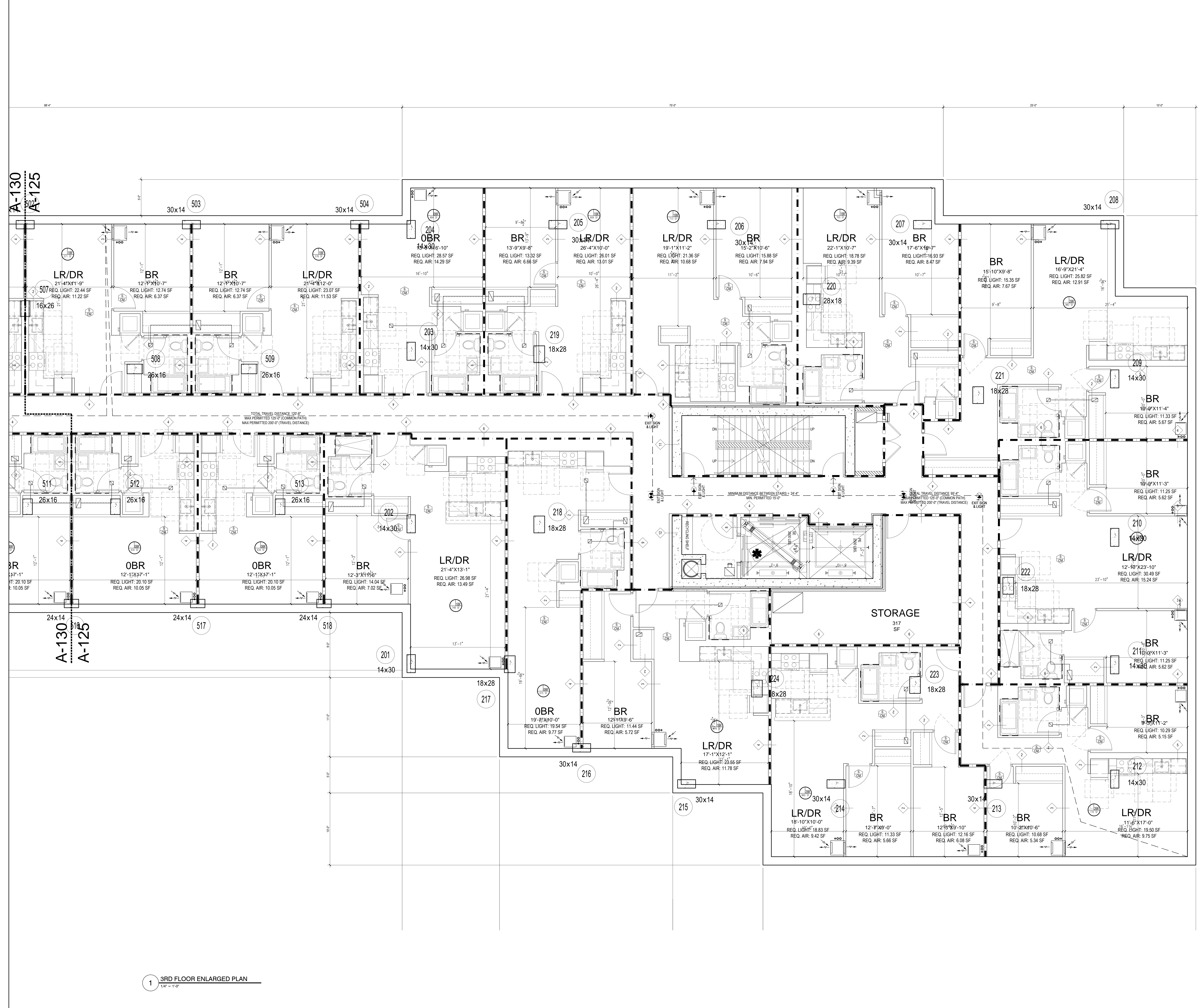
JOB STAMPS & SIGNATURES:

DATE: 08/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"

3RD FLOOR ENLARGED PLAN

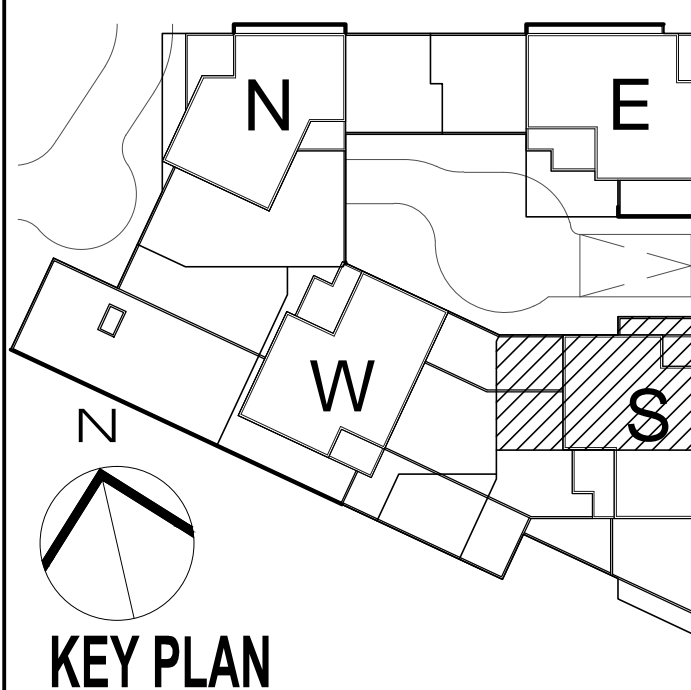
SEAL & SIGNATURE

DATE: 08/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"  
**A-125.00**



1 3RD FLOOR ENLARGED PLAN  
 1/4" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

08/01/2015 JOB SUBMISSION  
 Number: 1501 Date: Revision:  
 OWNER: THE CHETRI GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE, BRONX, NY 10451

DESIGN ARCHITECT:  
**G+HWA**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEPP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 M/PPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

CONSULTANT:

DOB DESIGN:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

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DOB STAMPS & SIGNATURES:

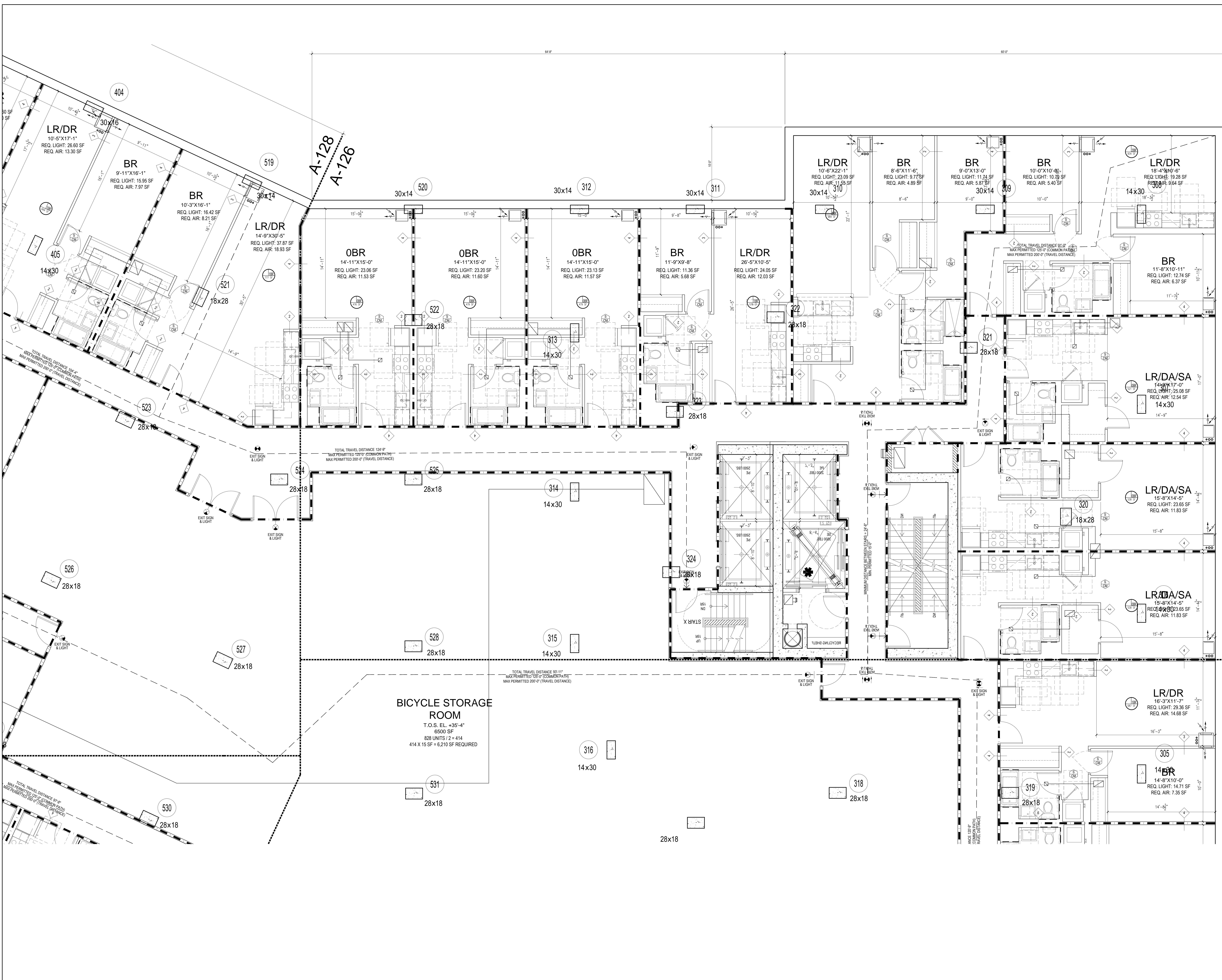
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DOB STAMPS & SIGNATURES:

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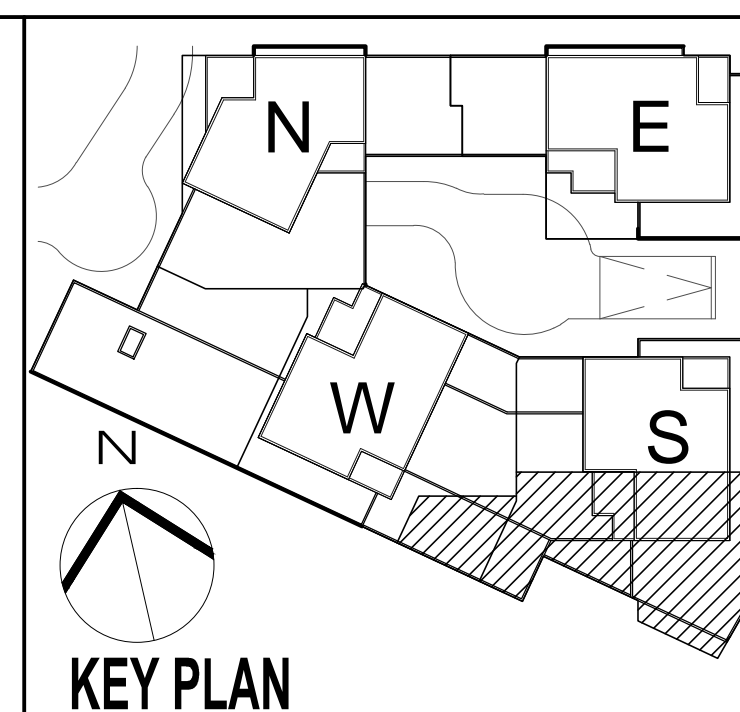


**1 3RD FLOOR ENLARGED PLAN**  
 1/4" = 1'-0"

DATE: 08/01/2015
PROJECT #: 1501
SCALE: 1/4" = 1'-0"
<b>A-126.00</b>
CAD FILE: J:\1508\101 Lincoln Av_Sbro
SHEET 45 OF 130




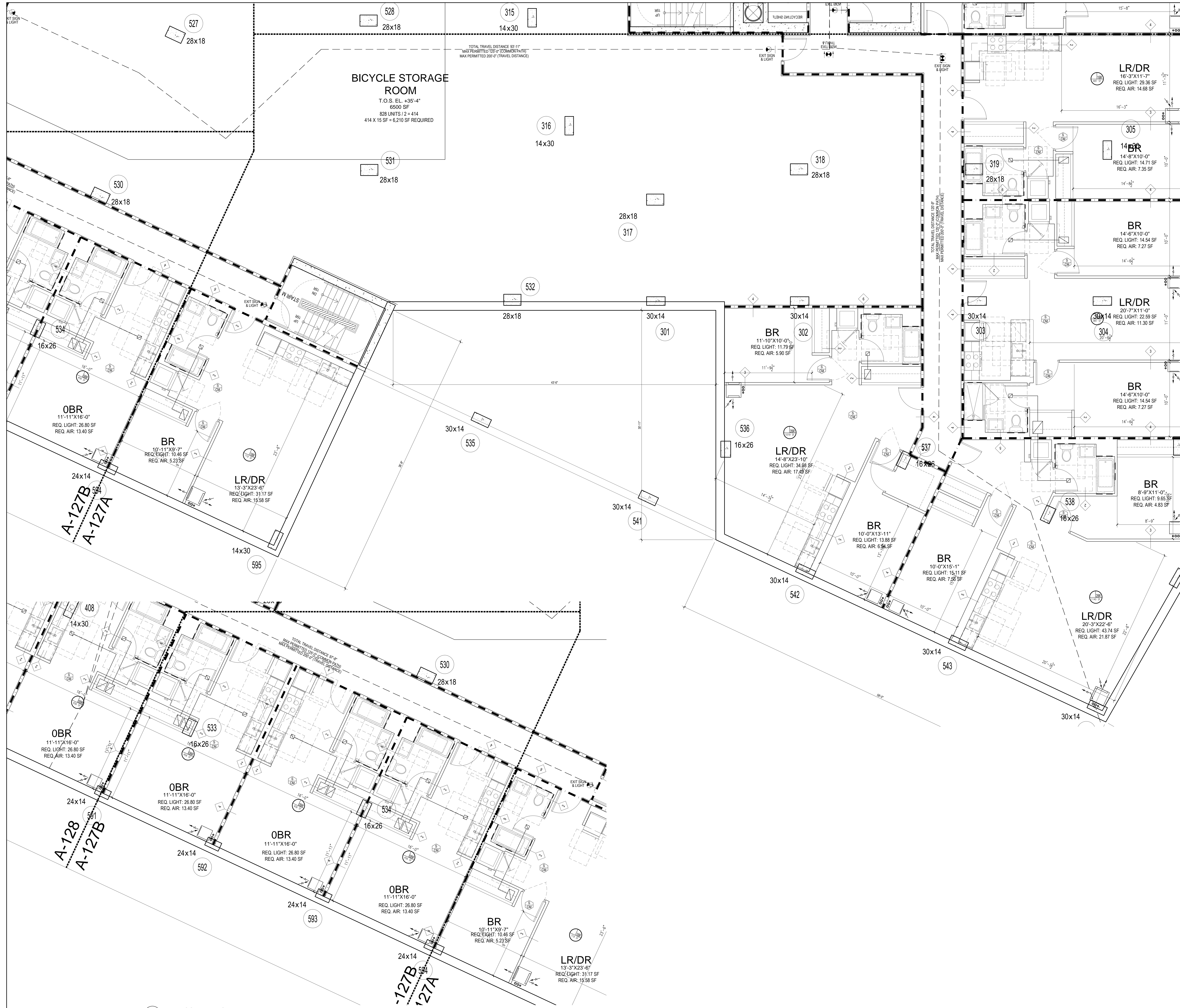
A-126  
A-127A



- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

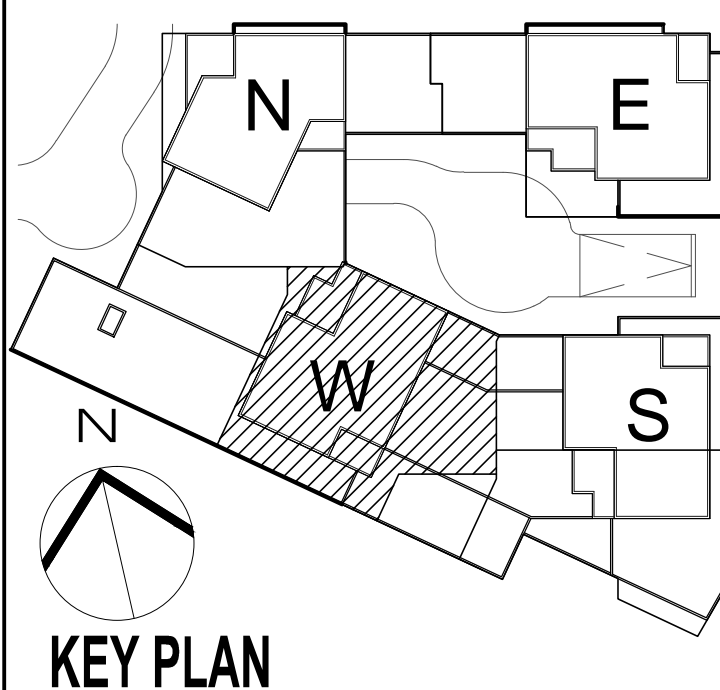
NOT FOR CONSTRUCTION

Number:	08/12/15	DOB SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB Stamps & Signatures:		
DOB Title:	3RD FLOOR ENLARGED PLAN	
Seal & Signature:	DATE: 08/12/15	PROJECT #: 1508
	SCALE: 1/4" = 1'-0"	<b>A-127.00</b>
CAD FILE: 215498 101 Lincoln Av_S8r3	SHEET: 46	OF 130



1 3RD FLOOR ENLARGED PLAN  
1/4" = 1'-0"





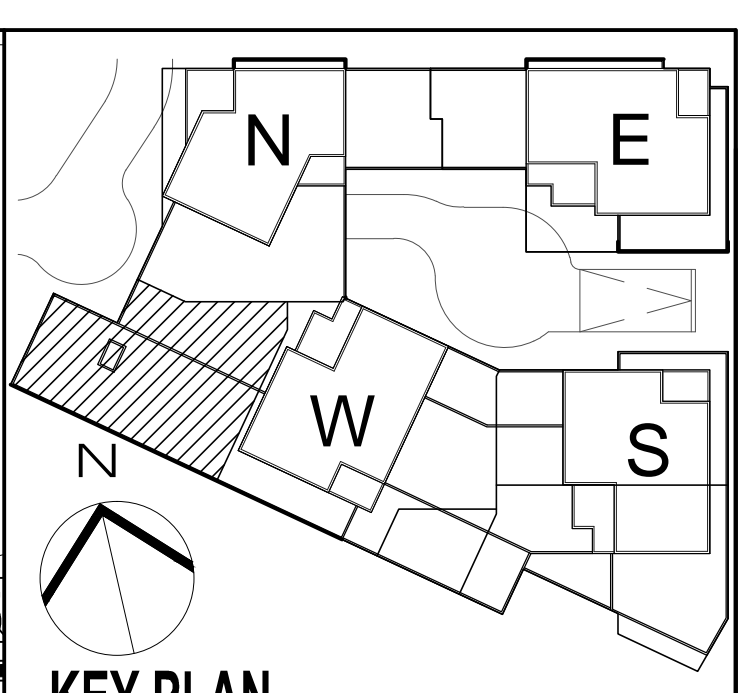
- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/12/15	DOB SUBMISSION
Owner:	THE CHETRIFF GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
Owner:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB SEAL:		
DOB STAMPS & SIGNATURES:		
DOB TITLE:	3RD FLOOR ENLARGED PLAN	
Scale:	1/4" = 1'-0"	
Scale:	A-128.00	
Scale:	SHEET 47 OF 130	

1 3RD FLOOR ENLARGED PLAN  
1/4" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

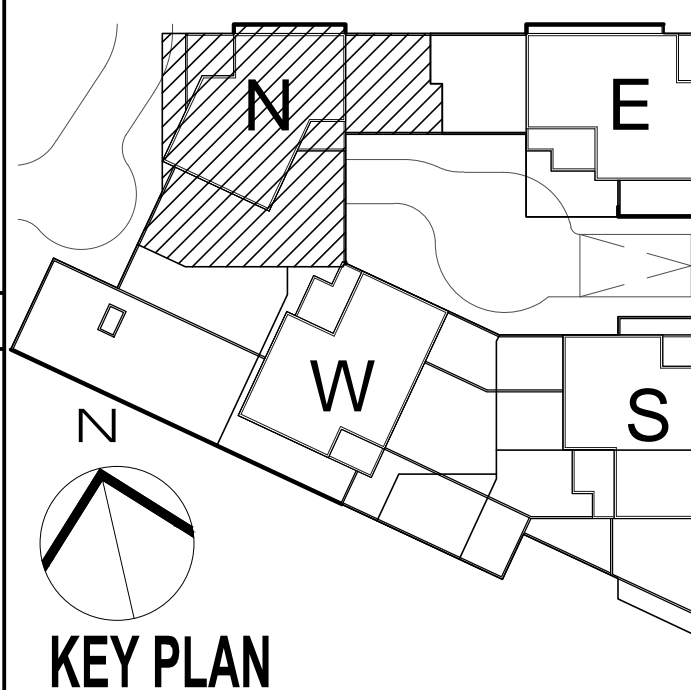
NOT FOR CONSTRUCTION

Number:	08/10/15	003 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Executive Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
M/E/P Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB DESIGN:		
DOB STAMPS & SIGNATURES:		
DATE:	08/10/2015	
PROJECT #:	15003	
SCALE:	1/4" = 1'-0"	
DATE:	08/10/2015	
PROJECT #:	15003	
SCALE:	1/4" = 1'-0"	
DATE:	08/10/2015	
PROJECT #:	15003	
SCALE:	1/4" = 1'-0"	

1 3RD FLOOR ENLARGED PLAN  
1/4" = 1'-0"

3RD FLOOR ENLARGED PLAN  
A-129.00  
SHEET 48 OF 130





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/12/15	008 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
Owner:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoHo - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	GHWAA Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	

Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879

Consultant:	
Consultant:	
DOB Design:	
DOB Stamps & Signatures:	

DOB Title:	3RD FLOOR ENLARGED PLAN
Scale:	1/4" = 1'-0"
Scale:	A-130.00

Date:	08/12/15
Project #:	1508
Scale:	1/4" = 1'-0"
Scale:	A-130.00

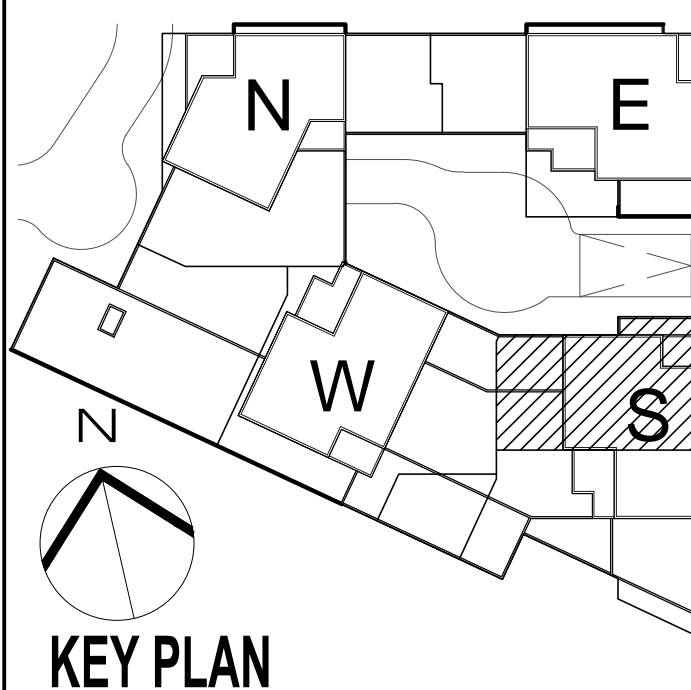
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Scale:	A-130.00







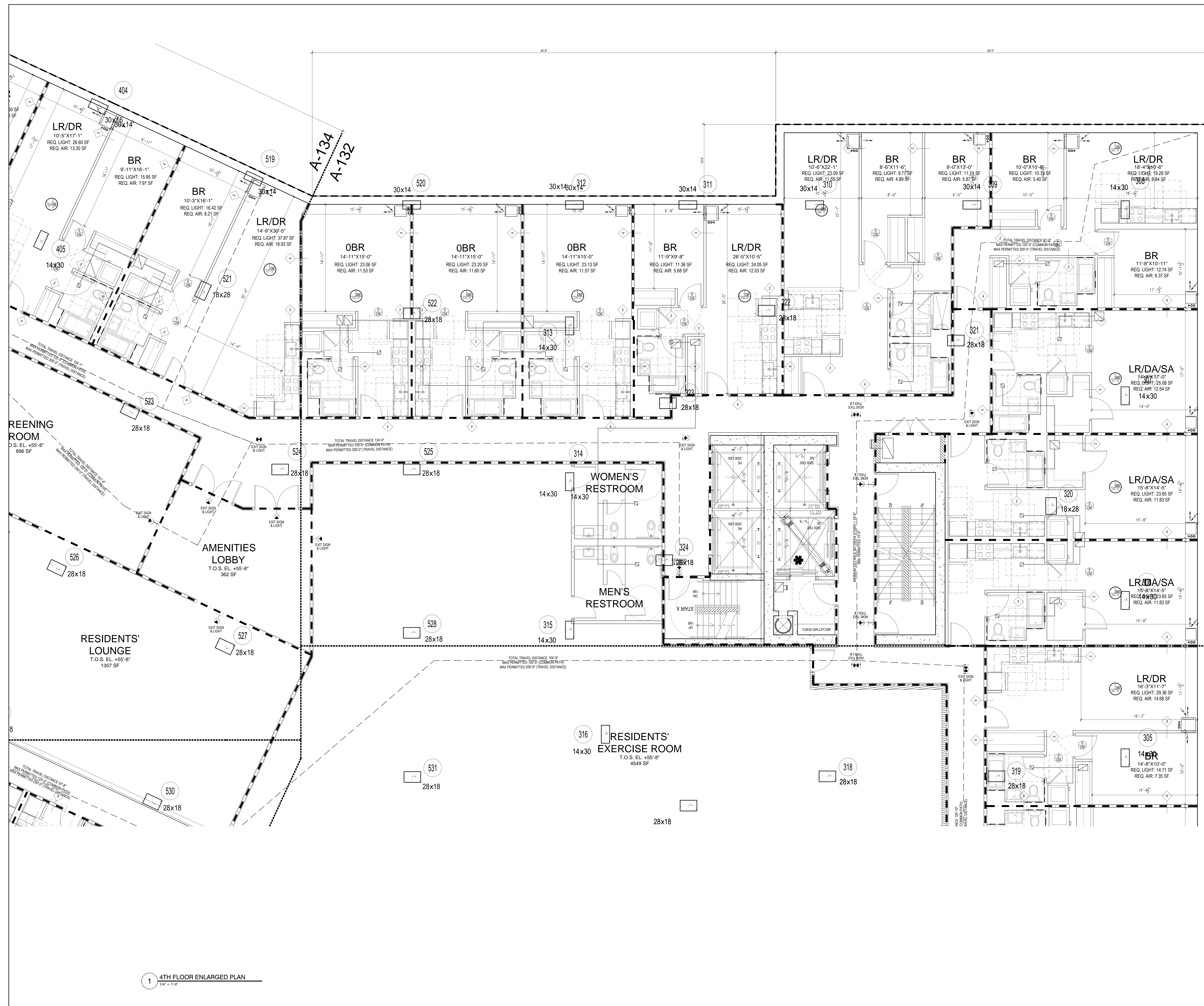




- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/12/15	DOB SUBMISSION
Owner:	THE CHETIV GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Executive Architect:	G H W A Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
Mechanical Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Electrical Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB SSAN:		
DOB STAMPS & SIGNATURES:		
LONG TITLE:	4TH FLOOR ENLARGED PLAN	
SEAL & SIGNATURE:	DATE: 08/12/15	PROJECT #:
	SCALE: 1/4" = 1'-0"	
	<b>A-132.00</b>	
CAD FILE: J:\1508\101 Lincoln Av_Sbro	DWG NO.:	SHEET 51 OF 130



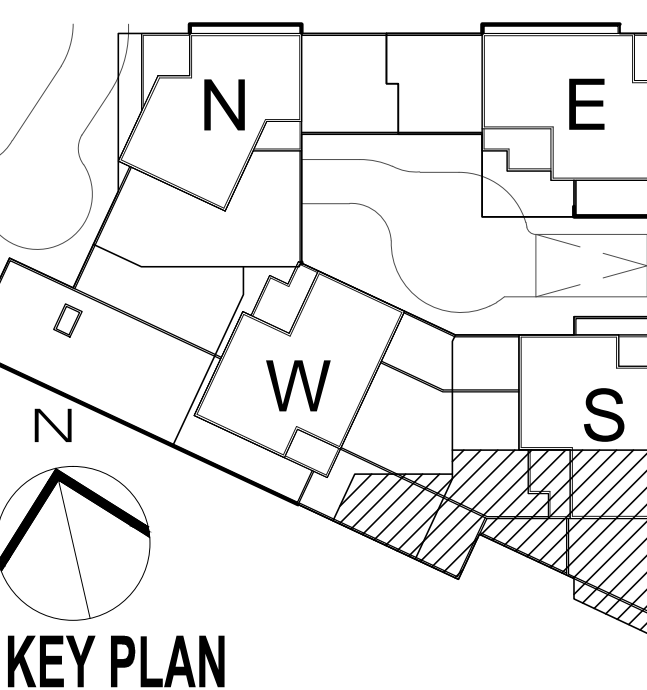
**1 4TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"



RESIDENTS' LOUNGE  
T.O.S. EL. +55'-8"  
1357 SF

RESIDENTS' EXERCISE ROOM  
T.O.S. EL. +55'-8"  
4549 SF

A-132  
A-133A

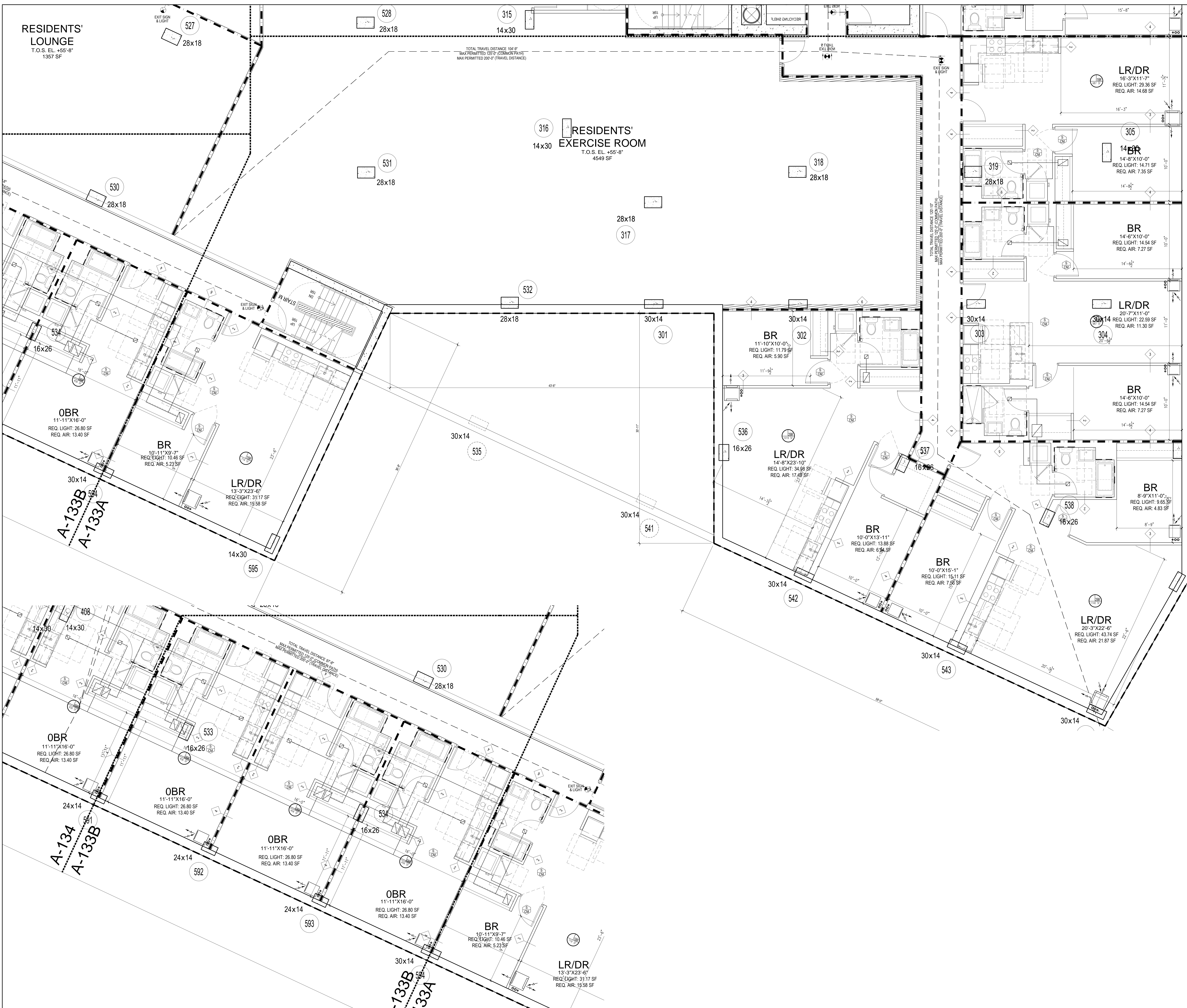


- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/01/2015	008 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Require Architect:	Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB Stamps & Signatures:		
DOB Title:	4TH FLOOR ENLARGED PLAN	
Seal & Signature:	DATE: 08/01/2015	PROJECT # : 133A
	SCALE: 1/4" = 1'-0"	A-133.00
CAD FILE: J:\1508\101 Lincoln Av_S88r	SHEET 52	OF 130

1 4TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

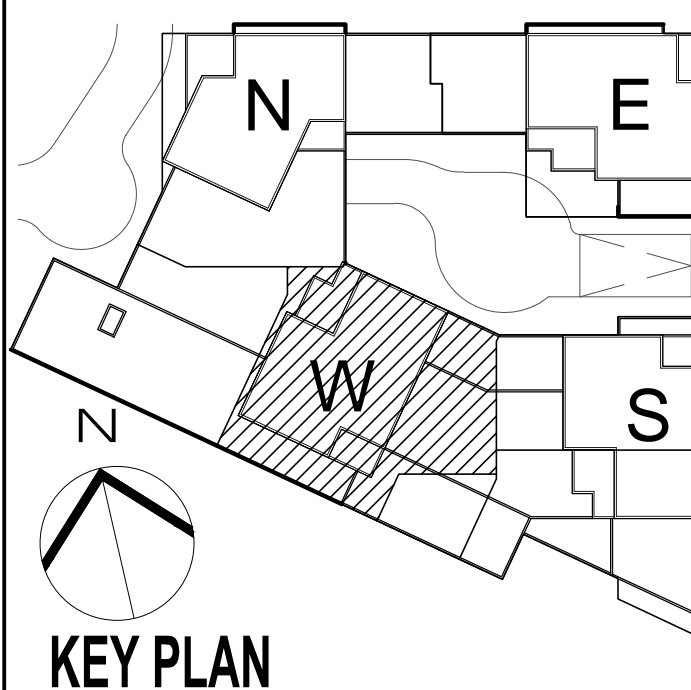






MECHANICAL  
OPEN TO BELOW

1 4TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

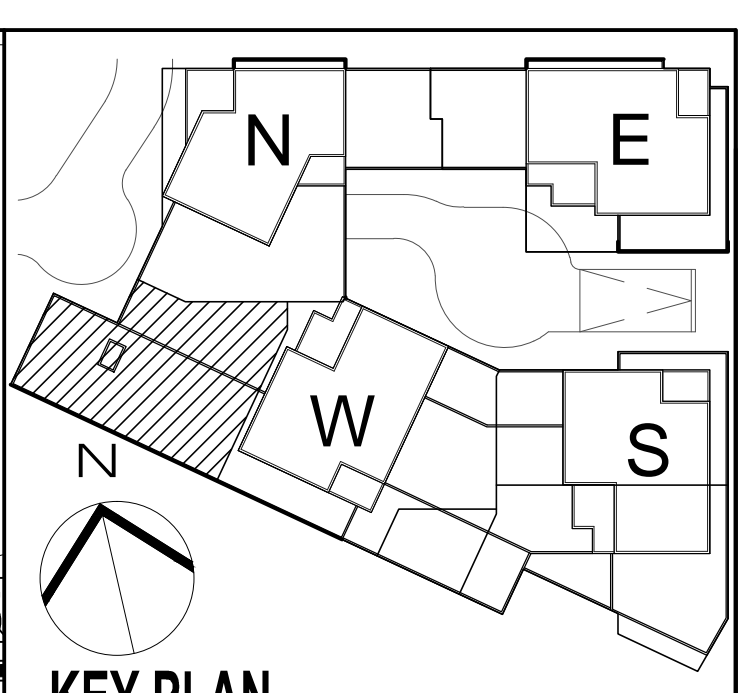
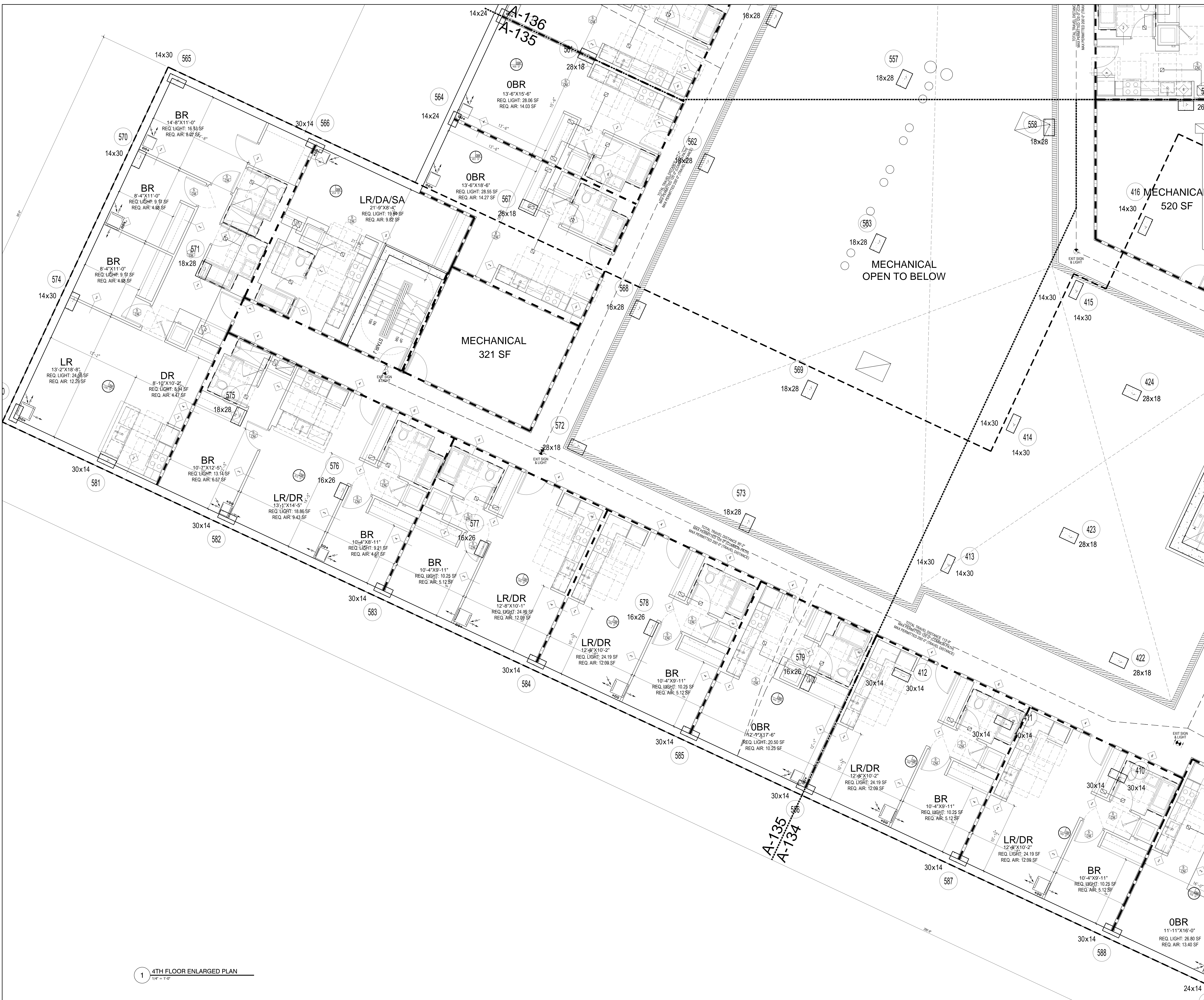


- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION


Number:	08/12/15	DOB SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL. NEW YORK, NY 10018	
Owner:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL. NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Executive Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Title:	4TH FLOOR ENLARGED PLAN	
Scale:	1/4" = 1'-0"	
Scale:	A-134.00	





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

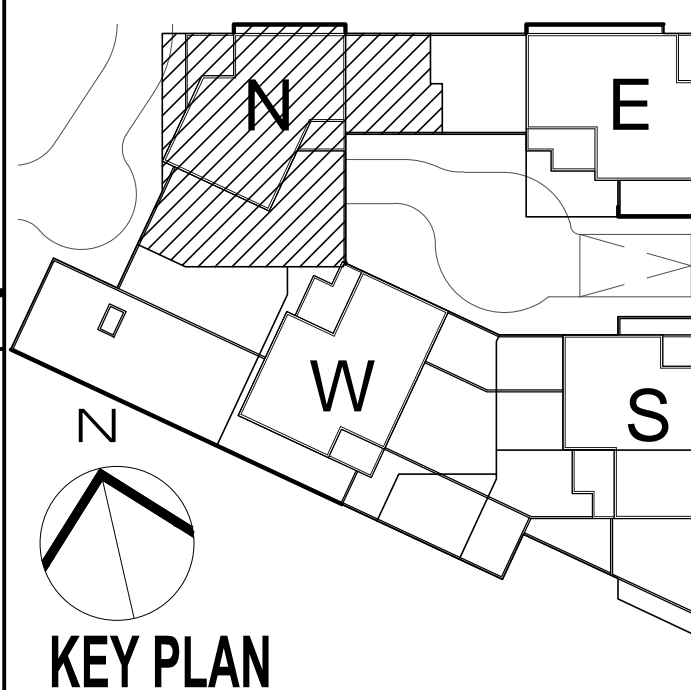
NOT FOR CONSTRUCTION

Number:	001/015	001/015
Revision:		
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL. NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL. NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
EXECUTIVE ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
DOB DESIGN:		
DOB STAMPS & SIGNATURES:		
DATE:	08/01/2015	
PROJECT #:	15001	
SCALE:	1/4" = 1'-0"	
DATE:	08/01/2015	
PROJECT #:	15001	
SCALE:	1/4" = 1'-0"	
DATE:	08/01/2015	
PROJECT #:	15001	
SCALE:	1/4" = 1'-0"	

1 4TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

4TH FLOOR ENLARGED PLAN  
A-135.00  
SHEET 54 OF 130





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/12/15	DOB SUBMISSION
Size:		Revision:
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoHo - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
DESIGN ARCHITECT:	GHWAA Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	

STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001
CAD ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10021
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879

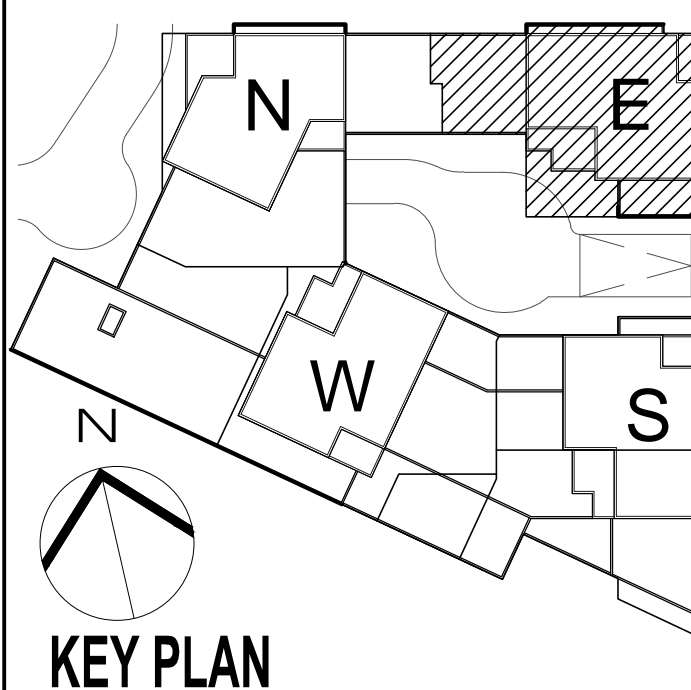
CONSULTANT:	
CONSULTANT:	
DOB DESIGN:	
DOB STAMPS & SIGNATURES:	

DOB TITLE:	
DATE:	08/12/15
PROJECT #:	15001
SCALE:	1/4" = 1'-0"
SHEET NO. OF 130	A-136.00



1 4TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"





**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

08/01/2015 000 SUBMISSION

OWNER: THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE, BRONX, NY 10451

ARCHITECT: **G+HWA**  
**Goldstein, Hill & West Architects, LLP**  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER: DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

M/E/P/P ENGINEER: VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER: AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT: M/PFP  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER: PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

CONSULTANT:

DOB DESIGN:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

DOB STAMPS & SIGNATURES:

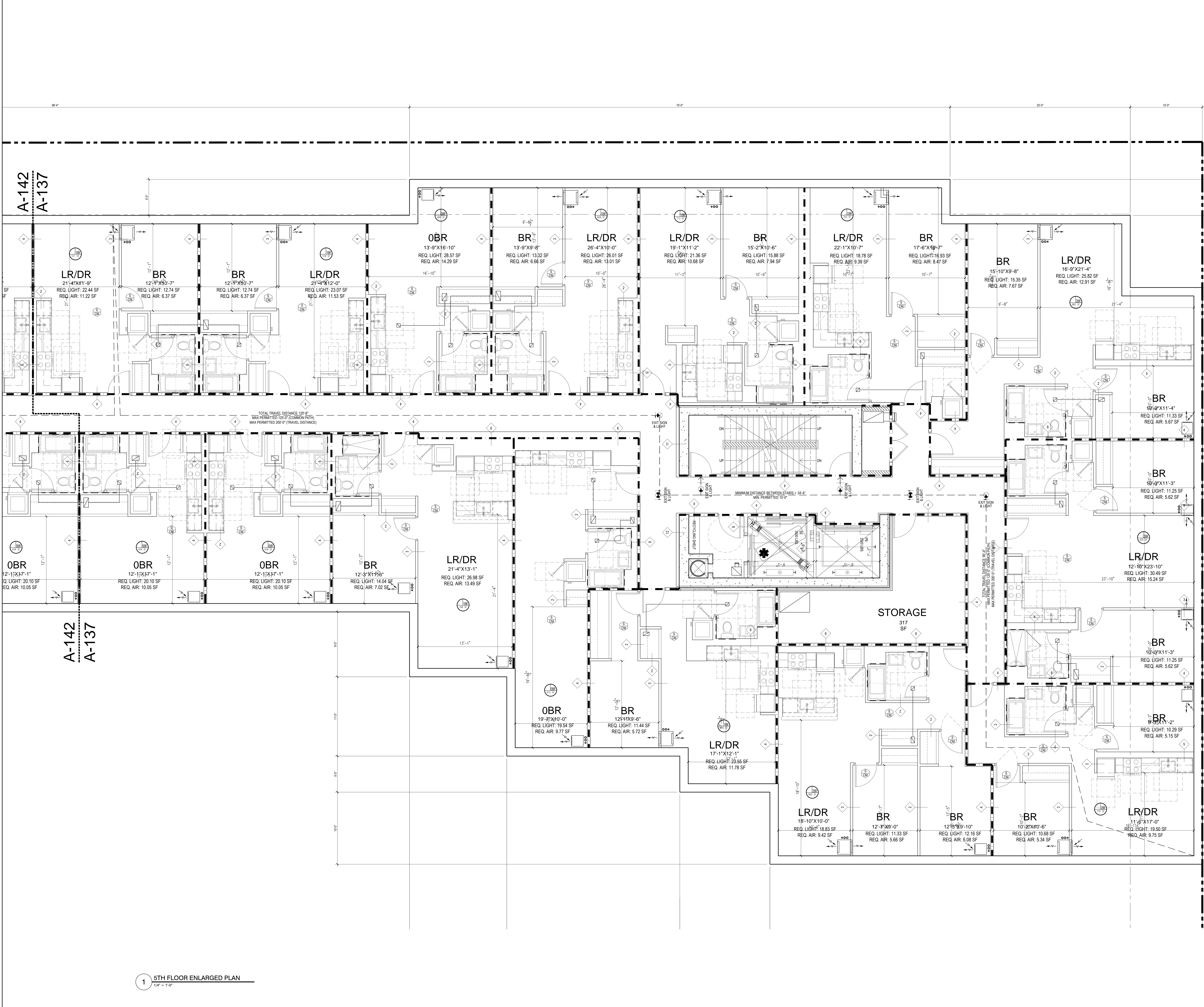
5TH FLOOR ENLARGED PLAN

SCALE: 1/4" = 1'-0"

DATE: 08/01/2015

PROJECT # 15408

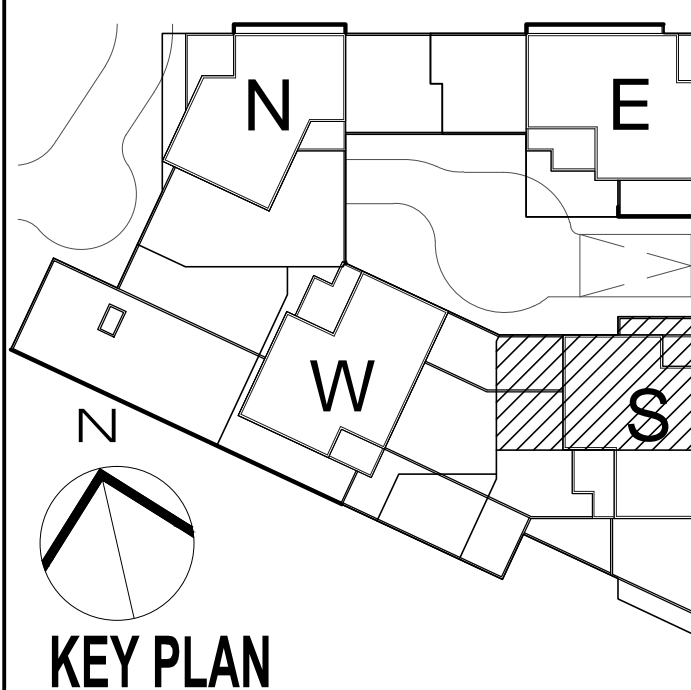
SHEET 56 OF 130



5TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

A-137.00





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

08/01/2015 008 SUBMISSION

OWNER: THE CHETREIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE, BRONX, NY 10451

DESIGNER ARCHITECT:  
**G+HWA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

MEPP ENGINEER:  
VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER:  
AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
M/FPF  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB SIGN:

DOB STAMPS & SIGNATURES:

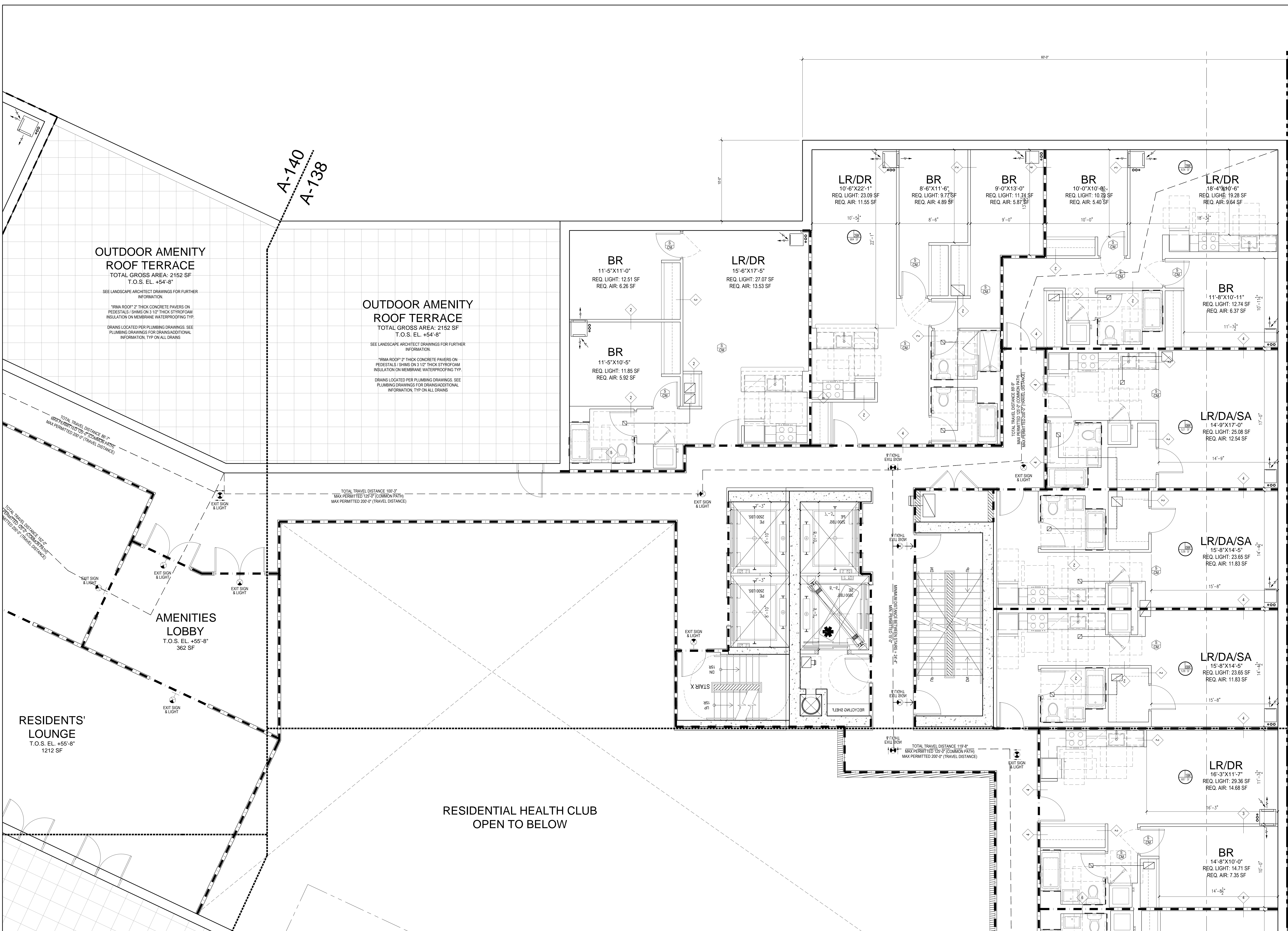
DATE: 08/01/2015

PROJECT #: 15488

SCALE: 1/4" = 1'-0"

**A-138.00**

CAD FILE: 215488 101 Lincoln Av\_S880 SHEET 57 OF 130



**1 5TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"

A-138  
A-139A

RESIDENTIAL HEALTH CLUB  
OPEN TO BELOW

OUTDOOR AMENITY  
ROOF TERRACE  
TOTAL GROSS AREA: 2152 SF  
T.O.S. EL. +54'-8"

OUTDOOR AMENITY  
ROOF TERRACE  
TOTAL GROSS AREA: 2152 SF  
T.O.S. EL. +54'-8"

AMENITIES  
LOBBY  
T.O.S. EL. +55'-8"  
362 SF

RESIDENTS'  
LOUNGE  
T.O.S. EL. +55'-8"  
1212 SF

LR/DR  
10'-6" X 22'-1"  
REQ. LIGHT: 23.09 SF  
REQ. AIR: 11.55 SF

BR  
8'-6" X 11'-6"  
REQ. LIGHT: 9.77 SF  
REQ. AIR: 4.89 SF

BR  
9'-0" X 13'-0"  
REQ. LIGHT: 11.74 SF  
REQ. AIR: 5.87 SF

BR  
10'-0" X 10'-8"  
REQ. LIGHT: 10.28 SF  
REQ. AIR: 5.40 SF

LR/DR  
18'-4" X 10'-6"  
REQ. LIGHT: 19.28 SF  
REQ. AIR: 9.64 SF

BR  
11'-5" X 11'-0"  
REQ. LIGHT: 12.51 SF  
REQ. AIR: 6.26 SF

LR/DR  
15'-6" X 17'-5"  
REQ. LIGHT: 27.07 SF  
REQ. AIR: 13.53 SF

BR  
11'-5" X 10'-5"  
REQ. LIGHT: 11.85 SF  
REQ. AIR: 5.92 SF

BR  
11'-8" X 10'-11"  
REQ. LIGHT: 12.74 SF  
REQ. AIR: 6.37 SF

LR/DA/SA  
14'-9" X 17'-0"  
REQ. LIGHT: 25.88 SF  
REQ. AIR: 12.54 SF

LR/DA/SA  
15'-8" X 14'-5"  
REQ. LIGHT: 23.65 SF  
REQ. AIR: 11.83 SF

LR/DA/SA  
15'-8" X 14'-5"  
REQ. LIGHT: 23.65 SF  
REQ. AIR: 11.83 SF

LR/DR  
16'-3" X 11'-7"  
REQ. LIGHT: 29.36 SF  
REQ. AIR: 14.68 SF

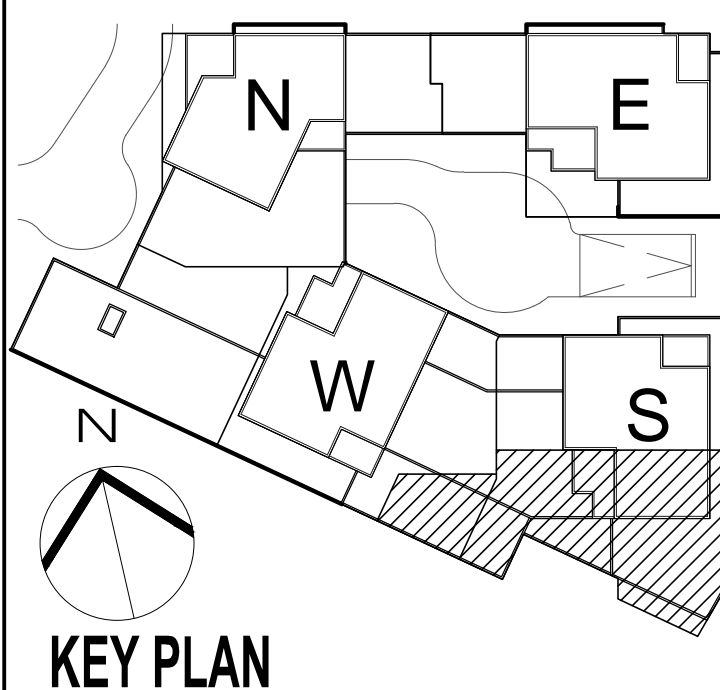
BR  
14'-8" X 10'-0"  
REQ. LIGHT: 14.71 SF  
REQ. AIR: 7.35 SF



RESIDENTS' LOUNGE  
T.O.S. EL. +55'-8"  
1212 SF

RESIDENTIAL HEALTH CLUB  
OPEN TO BELOW

A-138  
A-139A



- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number: 08/01/2015  
Date: 08/01/2015  
Revision:

OWNER:  
THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018  
SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT:  
SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE BRONX, NY 10451

ARCHITECT:  
**G+HWA**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

MEPP ENGINEER:  
VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER:  
AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
M/PPF  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB SEAL:

DOB STAMPS & SIGNATURES:

DOB TITLE:

5TH FLOOR ENLARGED PLAN

DATE: 08/01/2015  
PROJECT #: 15458  
SCALE: 1/4" = 1'-0"  
**A-139.00**

AMENITY TERRACE  
AREA: 3259 SF  
T.O.S. EL. +54'-8"  
SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
CONCRETE PAVERS ON 2" THICK CONCRETE PEDESTALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAINS/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

OUTDOOR AMENITY ROOF TERRACE  
TOTAL GROSS AREA: 3259 SF  
T.O.S. EL. +54'-8"  
SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
"IRMA ROOF" 2" THICK CONCRETE PAVERS ON PEDESTALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAINS/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

OUTDOOR AMENITY ROOF TERRACE  
TOTAL GROSS AREA: 3259 SF  
T.O.S. EL. +54'-8"  
SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
"IRMA ROOF" 2" THICK CONCRETE PAVERS ON PEDESTALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAINS/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

OUTDOOR AMENITY ROOF TERRACE  
TOTAL GROSS AREA: 3259 SF  
T.O.S. EL. +54'-8"  
SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
"IRMA ROOF" 2" THICK CONCRETE PAVERS ON PEDESTALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAINS/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

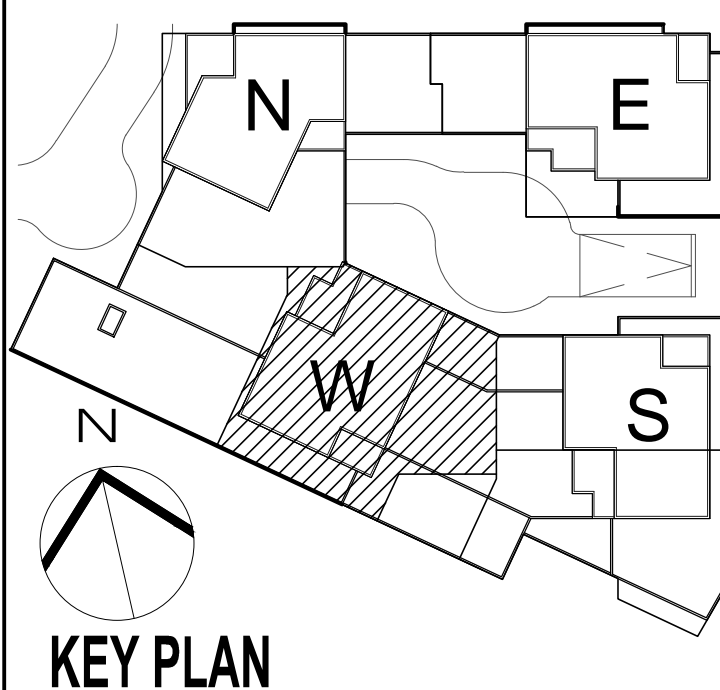
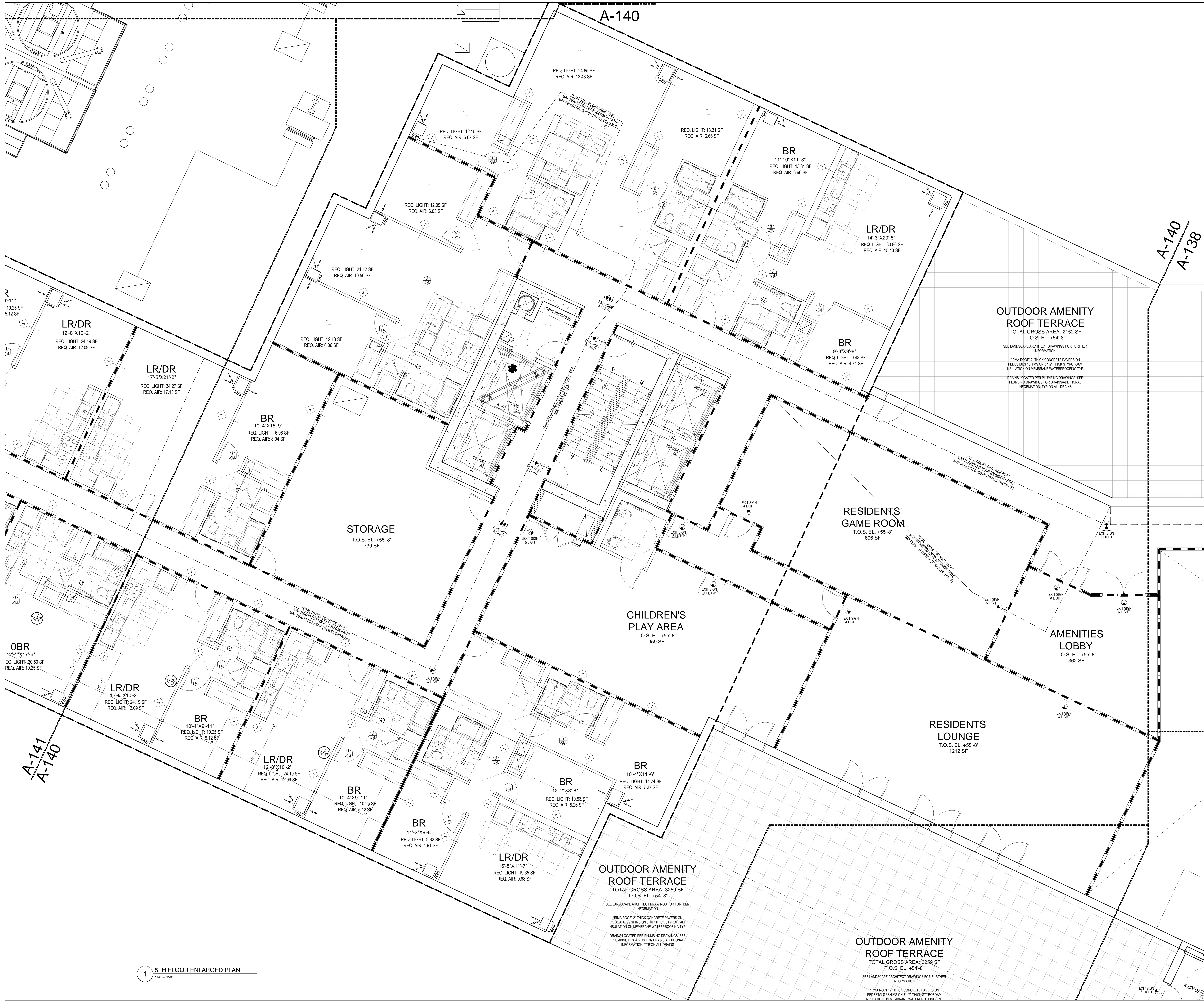
OUTDOOR AMENITY ROOF TERRACE  
TOTAL GROSS AREA: 3259 SF  
T.O.S. EL. +54'-8"  
SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
"IRMA ROOF" 2" THICK CONCRETE PAVERS ON PEDESTALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAINS/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

A-139B  
A-139A

A-140  
A-139B

A-139B  
A-139A





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/10/15	003 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
Project:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Client:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
M/E/P Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB SEAL:		
DOB STAMPS & SIGNATURES:		
DRWG TITLE:	5TH FLOOR ENLARGED PLAN	
DATE:	08/10/15	
PROJECT #:	1500	
SCALE:	1/4" = 1'-0"	
DATE:	08/10/15	
PROJECT #:	1500	
SCALE:	1/4" = 1'-0"	
DATE:	08/10/15	
PROJECT #:	1500	
SCALE:	1/4" = 1'-0"	

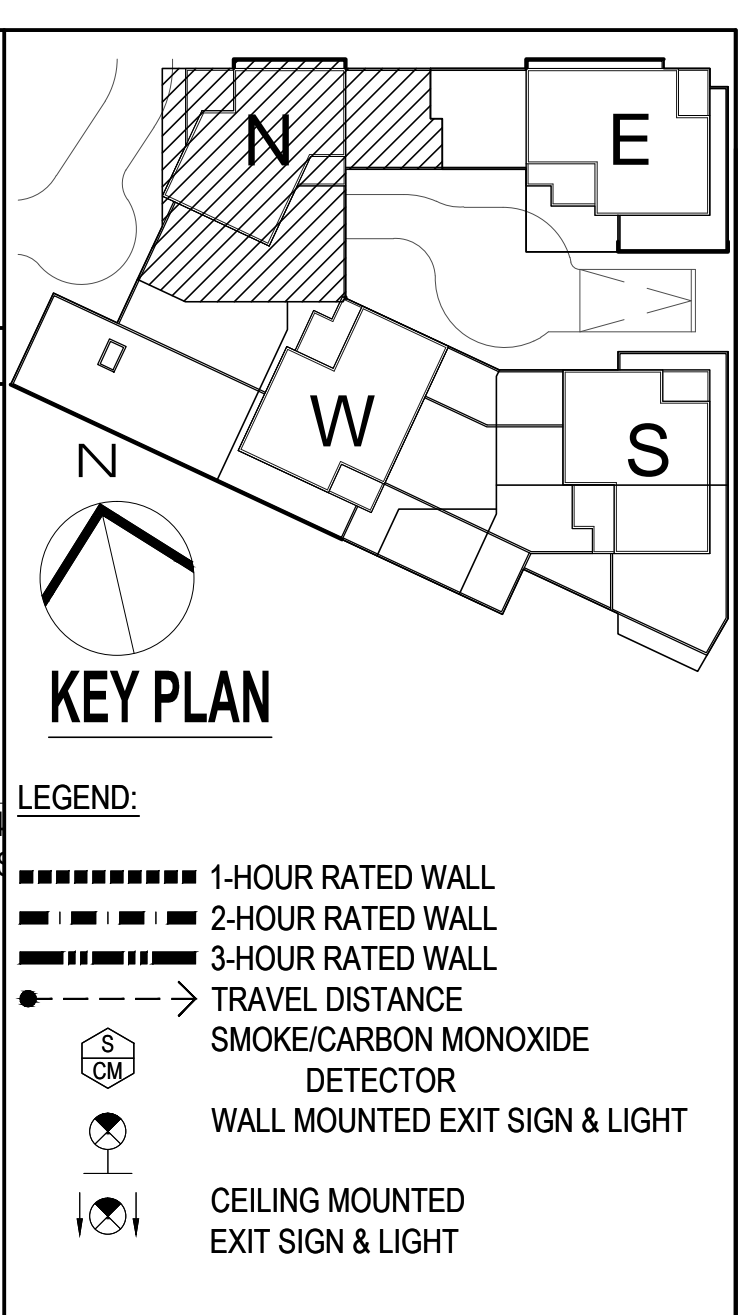
1 5TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

DATE:	08/10/15
PROJECT #:	1500
SCALE:	1/4" = 1'-0"
DATE:	08/10/15
PROJECT #:	1500
SCALE:	1/4" = 1'-0"
DATE:	08/10/15
PROJECT #:	1500
SCALE:	1/4" = 1'-0"









NOT FOR CONSTRUCTION

Number:	08/01/2015	008 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
Owner:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Executive Architect:	GHW	

**GHW**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

MEPP ENGINEER:  
VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER:  
AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
M/FPF  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB DESIGN:

DOB STAMPS & SIGNATURES:

OWNER TITLE:

5TH FLOOR ENLARGED PLAN

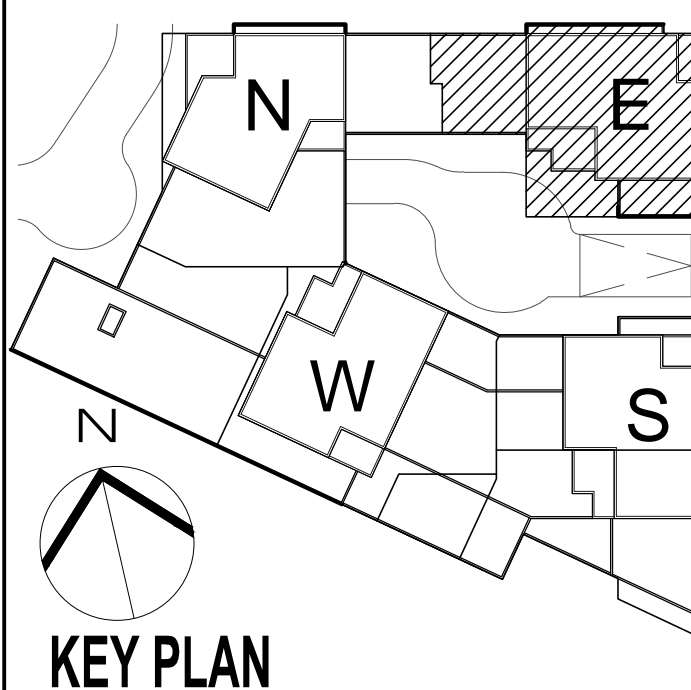
DATE:	08/01/2015
PROJECT #:	142-01
SCALE:	1/4" = 1'-0"
DWG NO.:	A-142.00
SHEET #:	OF 130

NO ACCESS  
MAINTENANCE/ROOF  
(MAINTENANCE ONLY)

5TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

A-142  
A-140





**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

08/01/2015 008 SUBMISSION

OWNER: THE CHETRIT GROUP LLC  
512 7TH AVENUE, 15TH FL  
NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
450 PARK AVENUE, 25TH FL  
NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
101 LINCOLN AVENUE, BRONX, NY 10451

ARCHITECT: **G+HWA**  
**Goldstein, Hill & West Architects, LLP**  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER: DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

M/E/P/P ENGINEER: VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER: AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT: M/PFP  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER: PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB DESIGN:

DOB STAMPS & SIGNATURES:

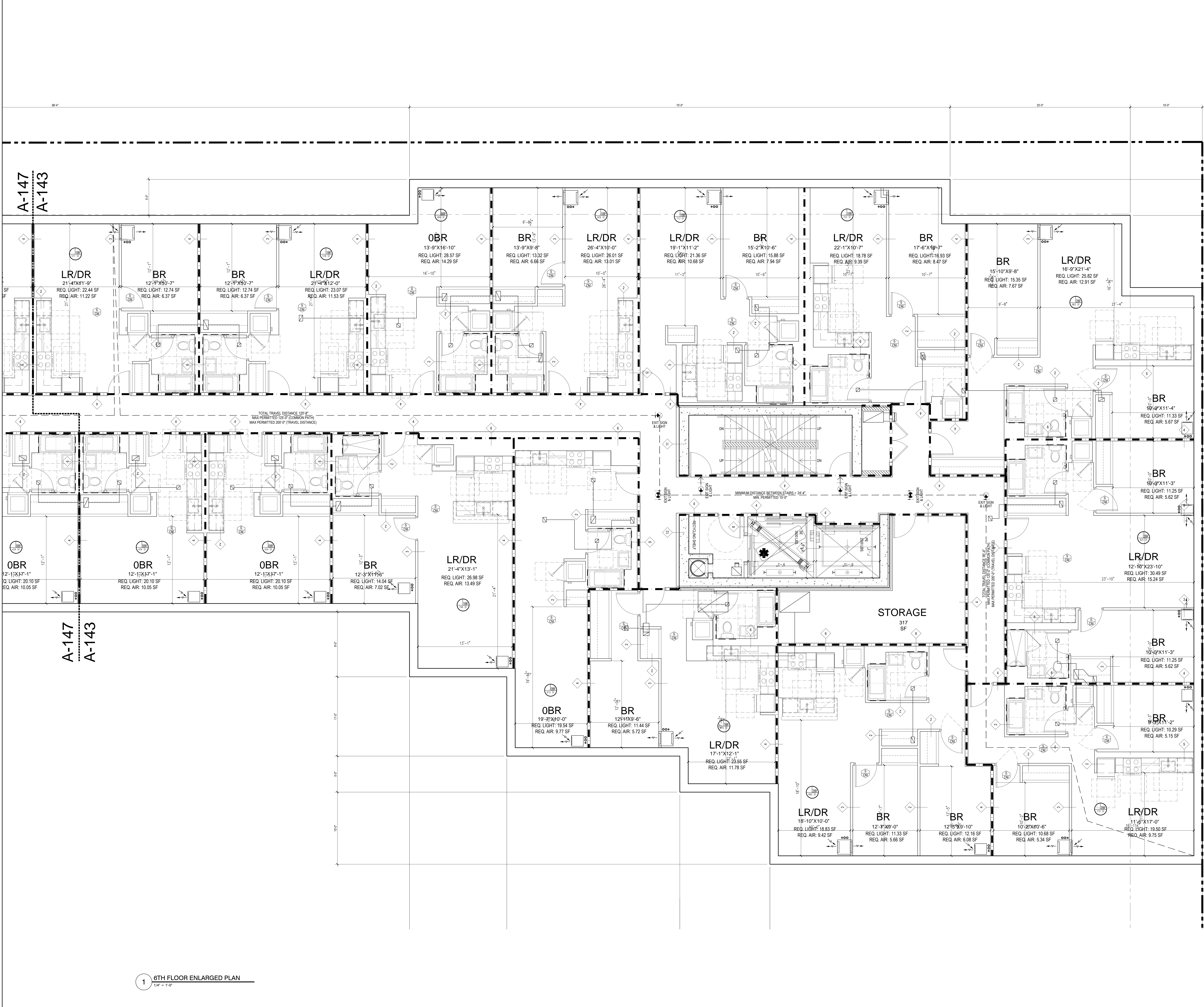
6TH FLOOR ENLARGED PLAN

DATE: 08/01/2015  
PROJECT #: 15408

SCALE: 1/4" = 1'-0"

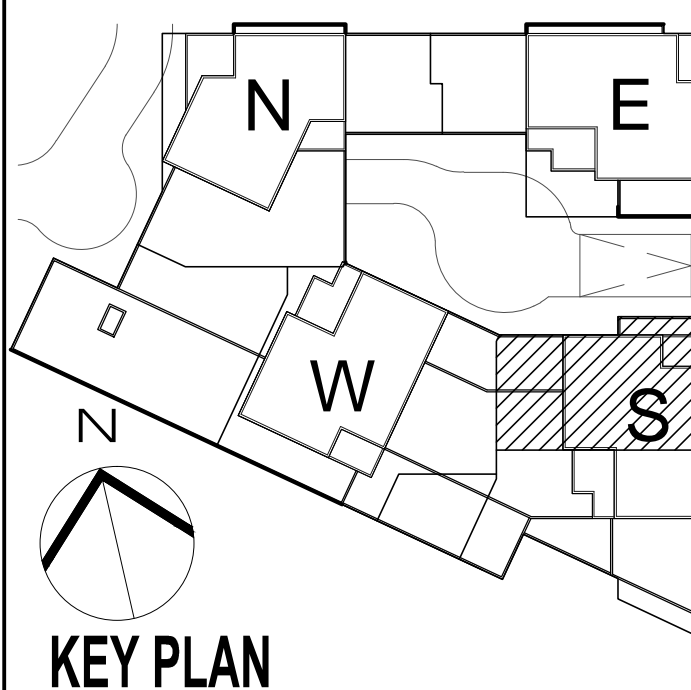
08/01/2015 008 SUBMISSION

CAD FILE: 215408 101 Lincoln Av\_S680 SHEET 62 OF 130



**6TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/12/15	DOB SUBMISSION
Revision:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBo - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE, BRONX, NY 10451

**REGISTERED ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEPP ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 M/FPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

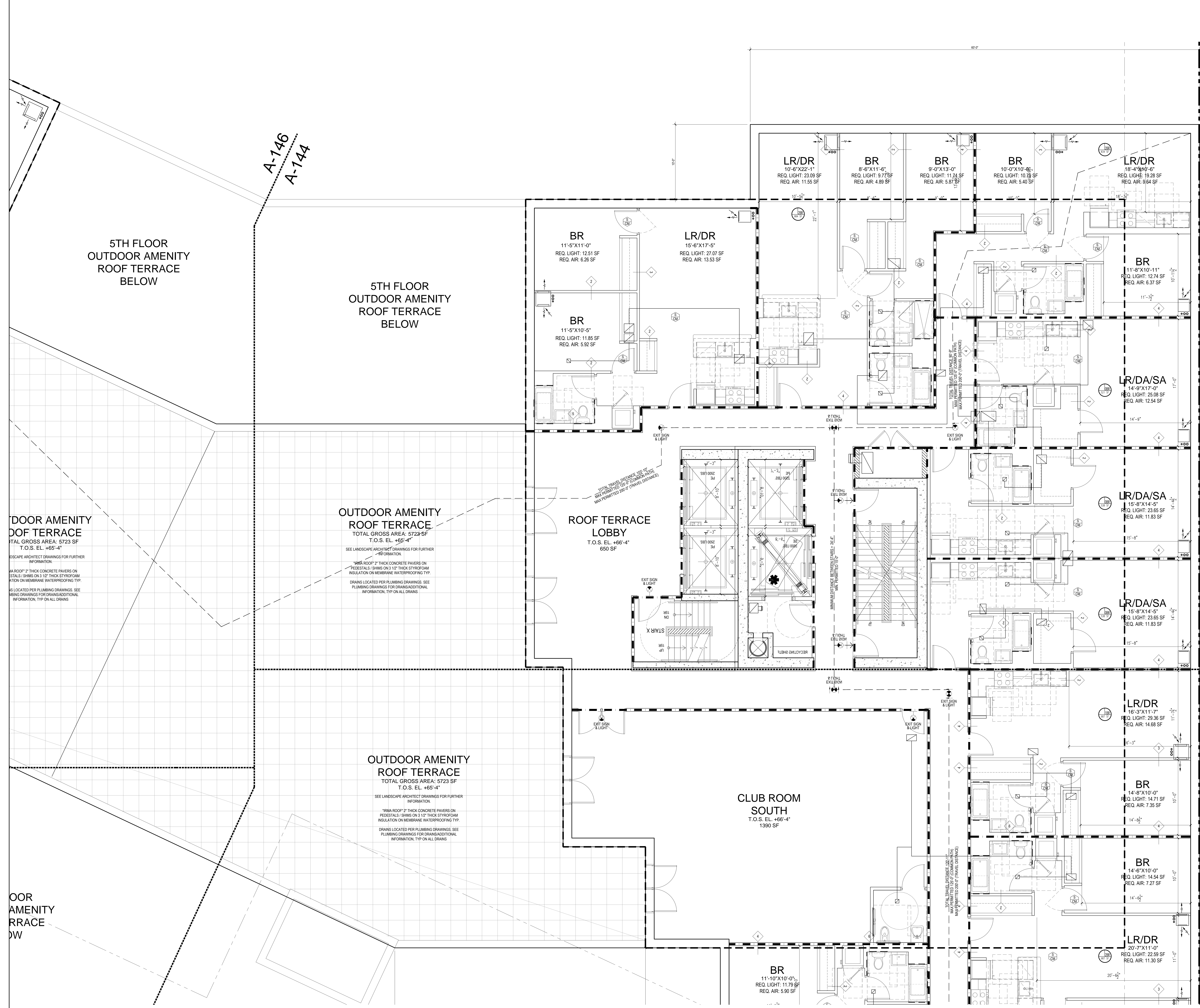
**CONSULTANT:**

**DOB SEAL:**

**DOB STAMPS & SIGNATURES:**

**DWG TITLE:**  
 6TH FLOOR ENLARGED PLAN

DATE:	08/12/15
PROJECT #:	144
SCALE:	1/4" = 1'-0"
<b>A-144.00</b>	



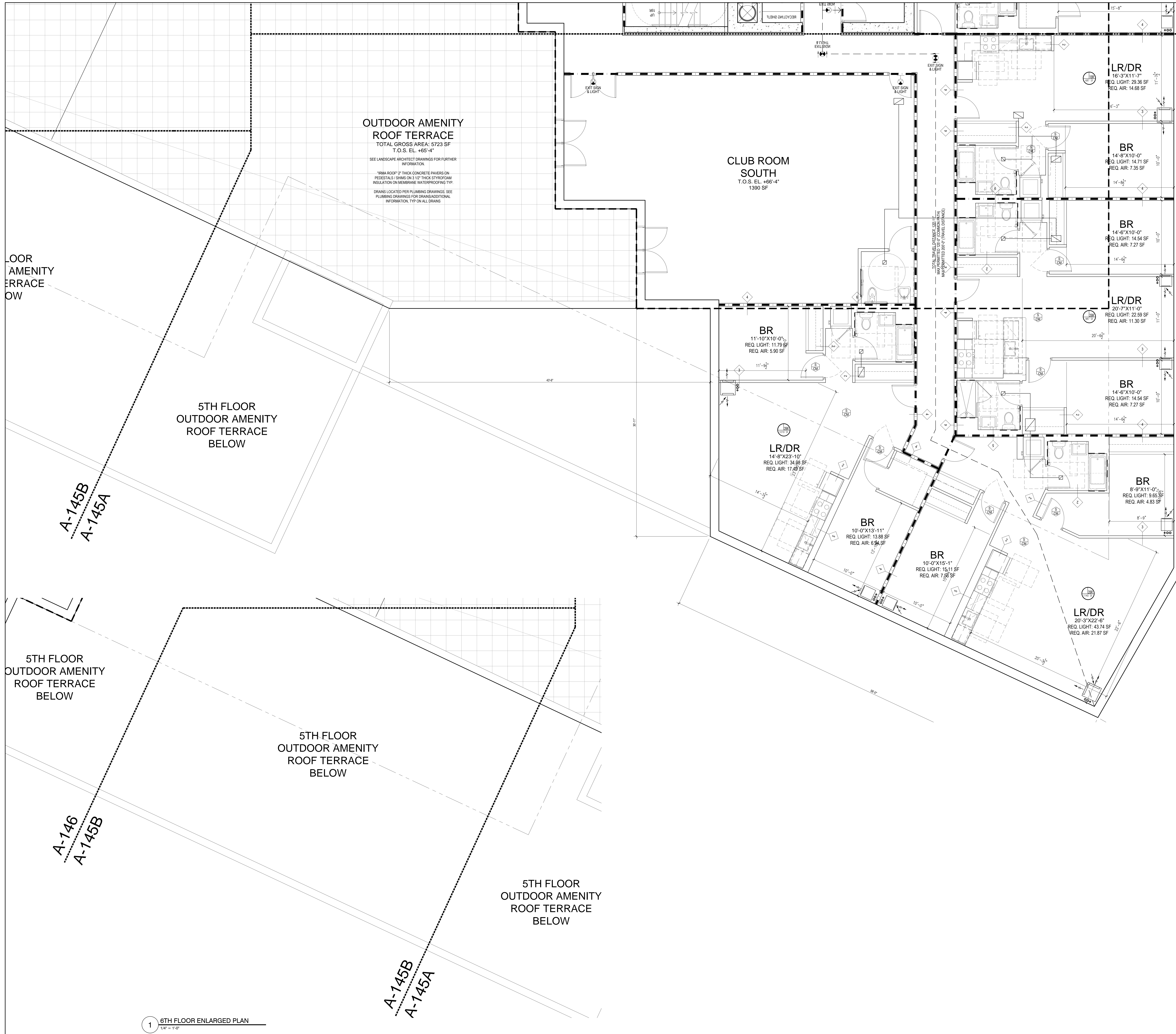
**OUTDOOR AMENITY ROOF TERRACE**  
 TOTAL GROSS AREA: 5723 SF  
 T.O.S. EL. +65'-4"  
 SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
 HARDOOF 2" THICK CONCRETE PAVERS ON STALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
 DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAIN/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

**OUTDOOR AMENITY ROOF TERRACE**  
 TOTAL GROSS AREA: 5723 SF  
 T.O.S. EL. +65'-4"  
 SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
 HARDOOF 2" THICK CONCRETE PAVERS ON PEDESTALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
 DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAIN/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

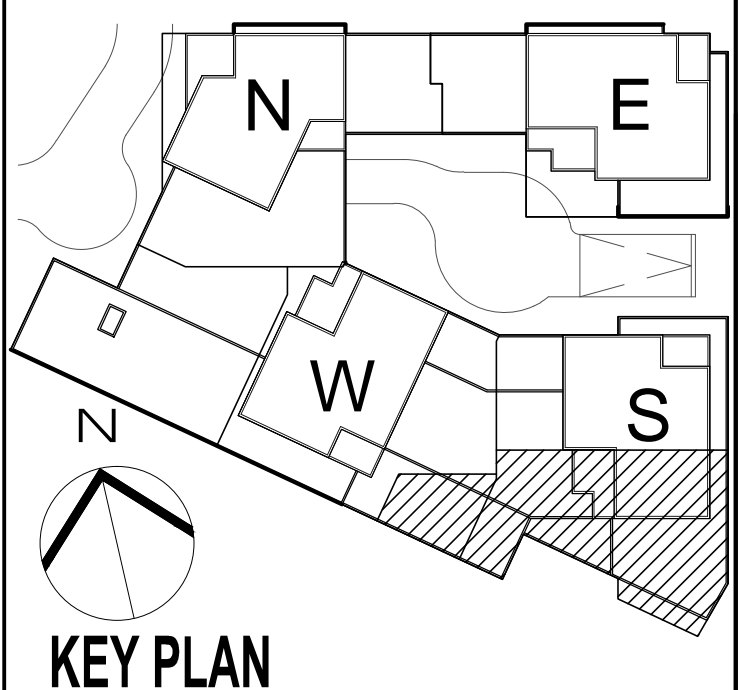
**OUTDOOR AMENITY ROOF TERRACE**  
 TOTAL GROSS AREA: 5723 SF  
 T.O.S. EL. +65'-4"  
 SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION.  
 HARDOOF 2" THICK CONCRETE PAVERS ON PEDESTALS / SHIMS ON 3 1/2" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.  
 DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAIN/ADDITIONAL INFORMATION. TYP ON ALL DRAINS.

**1 6TH FLOOR ENLARGED PLAN**  
 1/4" = 1'-0"





A-144  
 A-145A

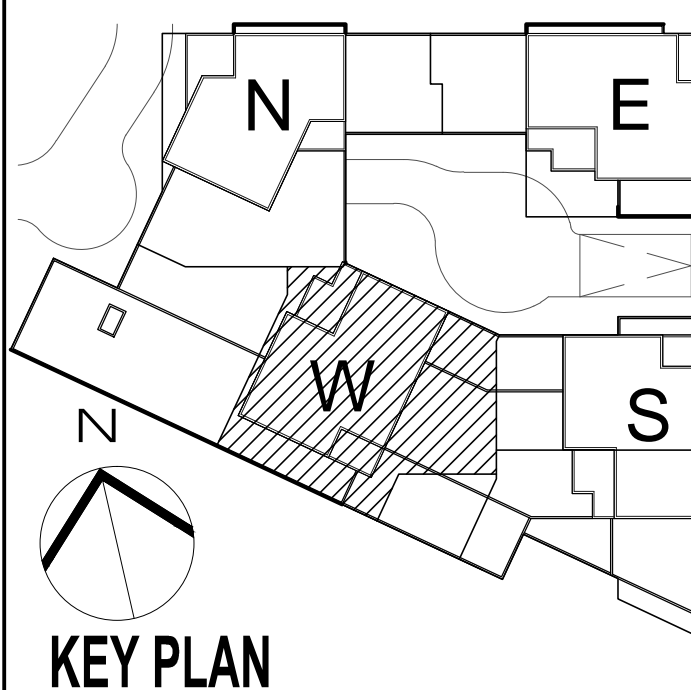


- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/01/2015	008 SUBMISSION
Owner:	THE CHETREIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
Executive Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB Stamps & Signatures:		
Drawn Title:	6TH FLOOR ENLARGED PLAN	
Seal & Signature:	DATE: 08/01/2015	PROJECT # 1445
	SCALE: 1/4" = 1'-0"	<b>A-145.00</b>
CAD FILE: 2115498 101 Lincoln Av_S68r	SHEET 64	OF 130

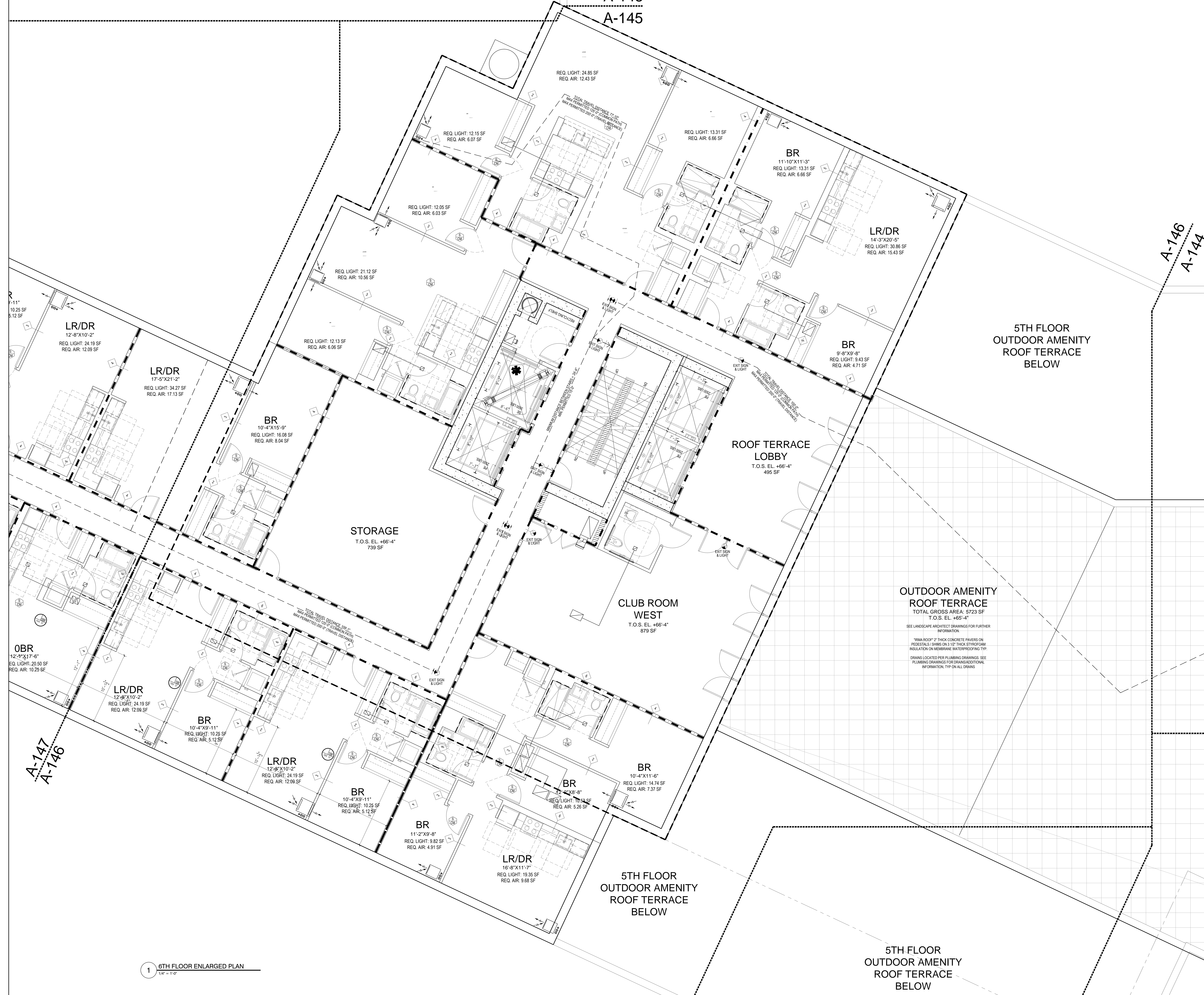




- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/12/15	Revision:	003 SUBMISSION
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018		
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022		
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451		
EXECUTIVE ARCHITECT:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10021		
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
CONSULTANT:			
CONSULTANT:			
DOB DESIGN:			
DOB STAMPS & SIGNATURES:			
DWG TITLE:	6TH FLOOR ENLARGED PLAN		
SCALE & SIGNATURE:	DATE:	08/12/15	
	PROJECT #:	15408	
	SCALE:	1/4" = 1'-0"	
	DWG NO.:	A-146.00	
CAD FILE:	215408 101 Lincoln Av_S6Bro		
	SHEET:	65	OF 130



1 6TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

5TH FLOOR  
OUTDOOR AMENITY  
ROOF TERRACE  
BELOW

5TH FLOOR  
OUTDOOR AMENITY  
ROOF TERRACE  
BELOW

5TH FLOOR  
OUTDOOR AMENITY  
ROOF TERRACE  
BELOW

**OUTDOOR AMENITY  
ROOF TERRACE**  
TOTAL GROSS AREA: 5723 SF  
T.O.S. EL. +65'-4"

SEE LANDSCAPE ARCHITECT DRAWINGS FOR FURTHER INFORMATION:

\*TRIA ROOF: 2" THICK CONCRETE PAVERS ON PEDESTALS; SIMS ON 3/4" THICK STYROFOAM INSULATION ON MEMBRANE WATERPROOFING TYP.

DRAINS LOCATED PER PLUMBING DRAWINGS. SEE PLUMBING DRAWINGS FOR DRAIN/ADDITIONAL INFORMATION. TYP ON ALL DRAINS

**CLUB ROOM WEST**  
T.O.S. EL. +66'-4"  
879 SF

**ROOF TERRACE LOBBY**  
T.O.S. EL. +66'-4"  
495 SF

**STORAGE**  
T.O.S. EL. +66'-4"  
739 SF

**LR/DR**  
17'-5"X21'-2"  
REQ. LIGHT: 34.27 SF  
REQ. AIR: 17.13 SF

**LR/DR**  
12'-8"X10'-2"  
REQ. LIGHT: 24.19 SF  
REQ. AIR: 12.09 SF

**BR**  
10'-4"X15'-9"  
REQ. LIGHT: 16.08 SF  
REQ. AIR: 8.04 SF

**LR/DR**  
14'-3"X20'-5"  
REQ. LIGHT: 30.86 SF  
REQ. AIR: 15.43 SF

**BR**  
11'-10"X11'-3"  
REQ. LIGHT: 13.31 SF  
REQ. AIR: 6.66 SF

**BR**  
11'-2"X9'-8"  
REQ. LIGHT: 9.82 SF  
REQ. AIR: 4.91 SF

**BR**  
10'-4"X9'-11"  
REQ. LIGHT: 10.25 SF  
REQ. AIR: 5.12 SF

**BR**  
10'-4"X11'-6"  
REQ. LIGHT: 14.74 SF  
REQ. AIR: 7.37 SF

**BR**  
12'-4"X8'-8"  
REQ. LIGHT: 10.58 SF  
REQ. AIR: 5.26 SF

**BR**  
10'-4"X9'-11"  
REQ. LIGHT: 10.25 SF  
REQ. AIR: 5.12 SF

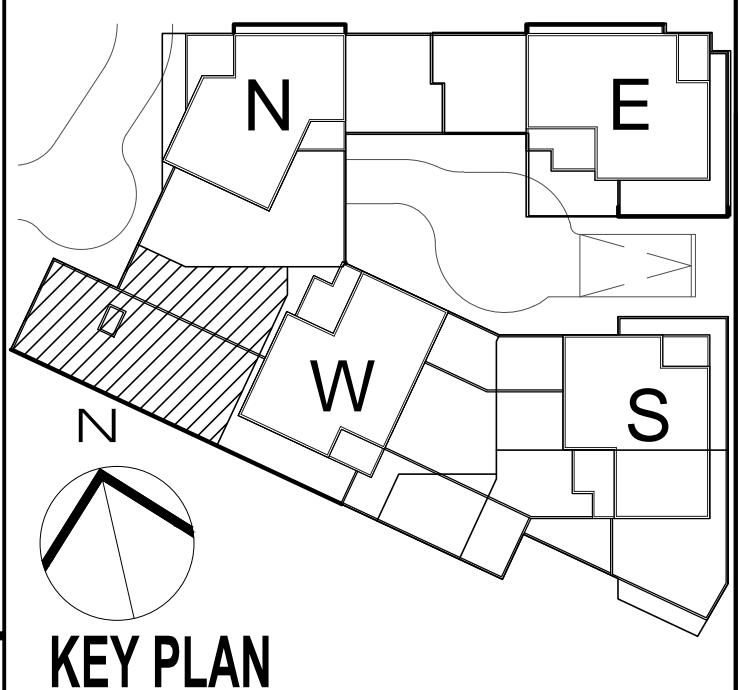
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REQ. LIGHT: 10.25 SF  
REQ. AIR: 5.12 SF

**LR/DR**  
12'-8"X10'-2"  
REQ. LIGHT: 24.19 SF  
REQ. AIR: 12.09 SF

**OBR**  
12'-1"X17'-6"  
REQ. LIGHT: 20.50 SF  
REQ. AIR: 10.25 SF



A-148  
A-147



- KEY PLAN**
- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

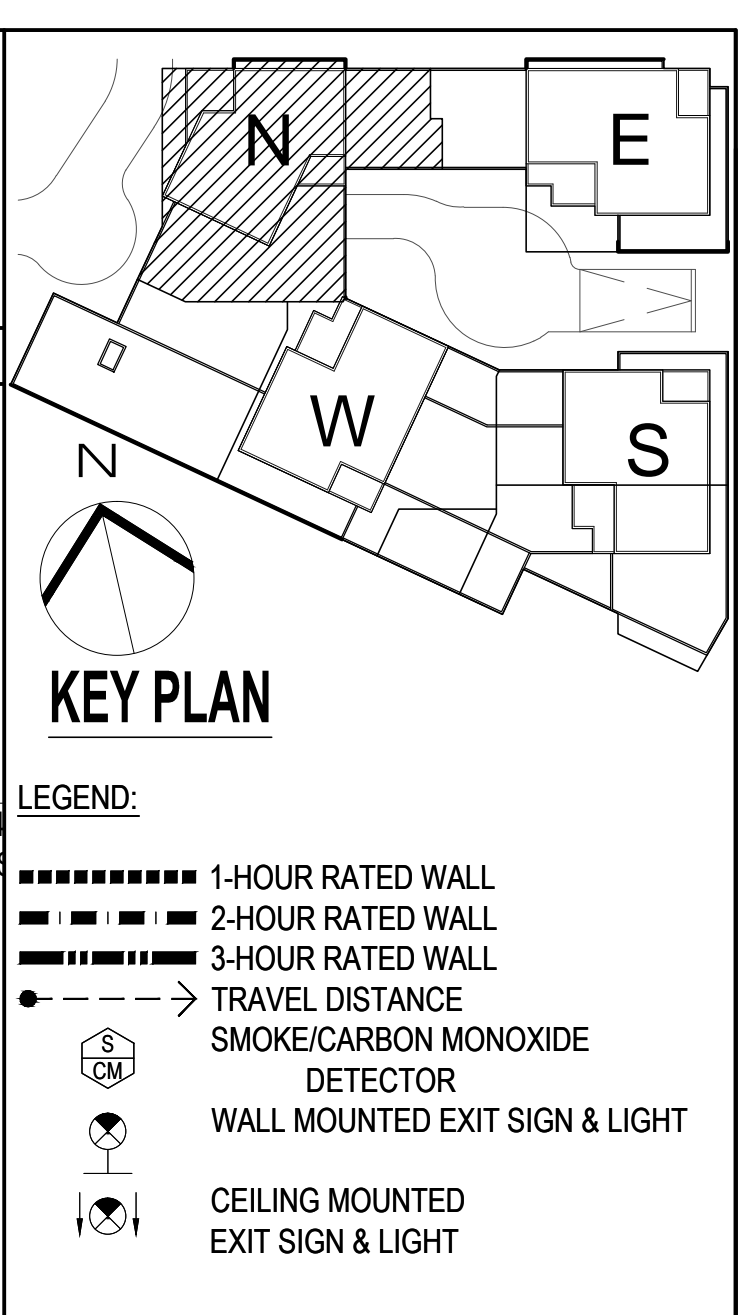
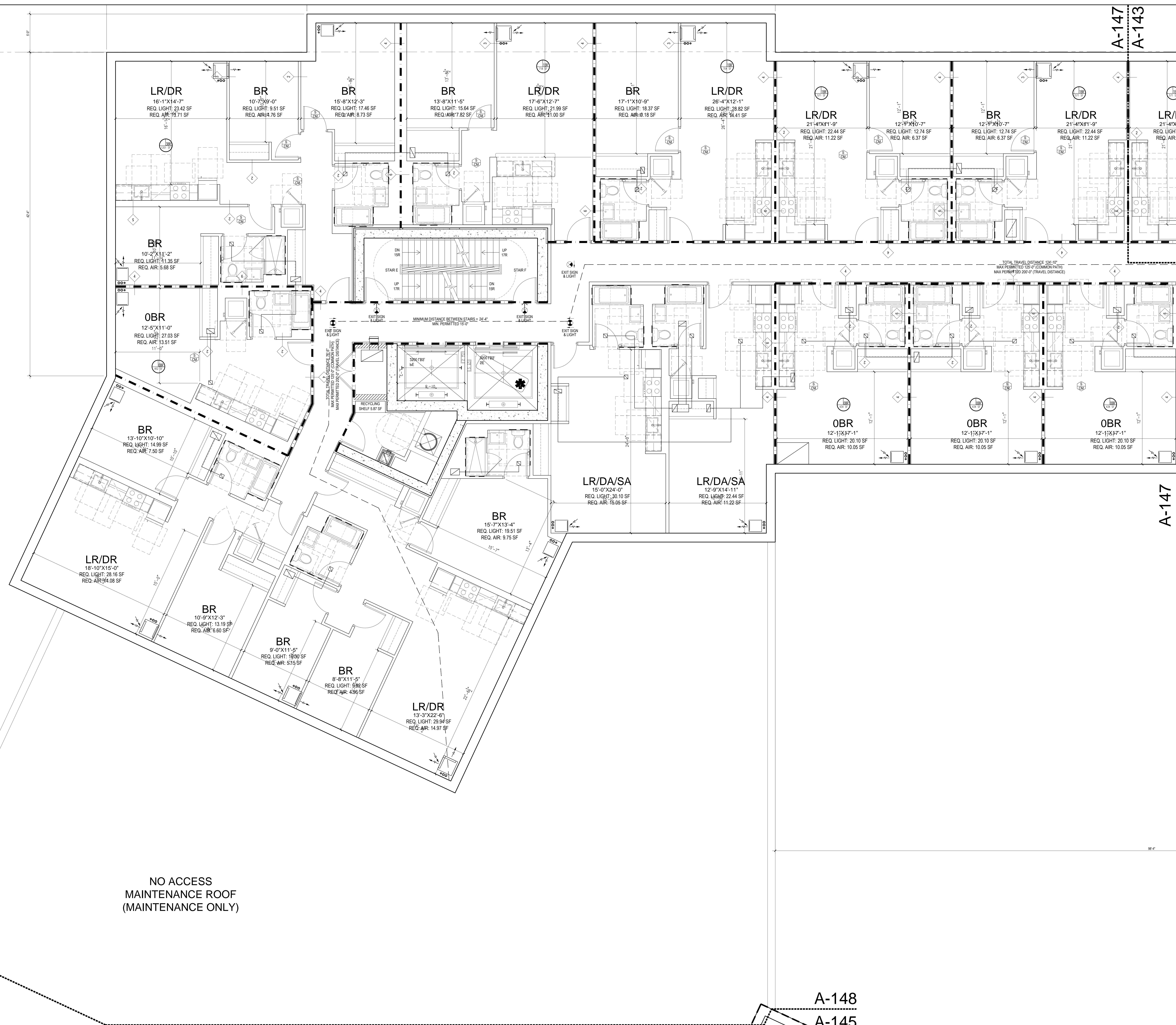
Number:	08/12/15
Title:	003 SUBMISSION
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451
DESIGNING ARCHITECT:	<b>GHWA</b> Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879
CONSULTANT:	
CONSULTANT:	
DOB DESIGN:	
DOB STAMPS & SIGNATURES:	
LONG TITLE:	<b>6TH FLOOR ENLARGED PLAN</b>
DATE:	08/02/2015
PROJECT #:	15003
SCALE:	1/4" = 1'-0"
SHEET NO.:	<b>A-147.00</b>
CAD FILE:	215498 101 Lincoln Ave_S68r
SHEET 66 OF 130	



1 6TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

A-147  
A-146





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/10/2015	008 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
Owner:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Design Architect:	GHW	

**GHW**  
Goldstein, Hill & West Architects, LLP  
11 Broadway, Suite 1700  
New York, NY 10004  
Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
DESIMONE CONSULTING ENGINEERS  
18 W 18TH STREET, 10TH FLOOR  
NEW YORK, NY 10011

MEPP ENGINEER:  
VENTROP ENGINEERING CONSULTING GROUP, PLLC  
365 W. 34TH STREET, 3RD FLOOR  
NEW YORK, NY 10001

CIVIL ENGINEER:  
AKRF  
440 PARK AVENUE SOUTH  
NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
M/FPF  
120 BROADWAY, 20TH FLOOR  
NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
PILLORI ASSOCIATE, P.A.  
71 ROUTE 35  
LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB DESIGN:

DOB STAMPS & SIGNATURES:

DOB TITLE:

6TH FLOOR ENLARGED PLAN

DATE:	08/10/2015
PROJECT #:	15408
SCALE:	1/4" = 1'-0"
DATE:	08/10/2015
PROJECT #:	15408
SCALE:	1/4" = 1'-0"
DATE:	08/10/2015
PROJECT #:	15408
SCALE:	1/4" = 1'-0"

1 6TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

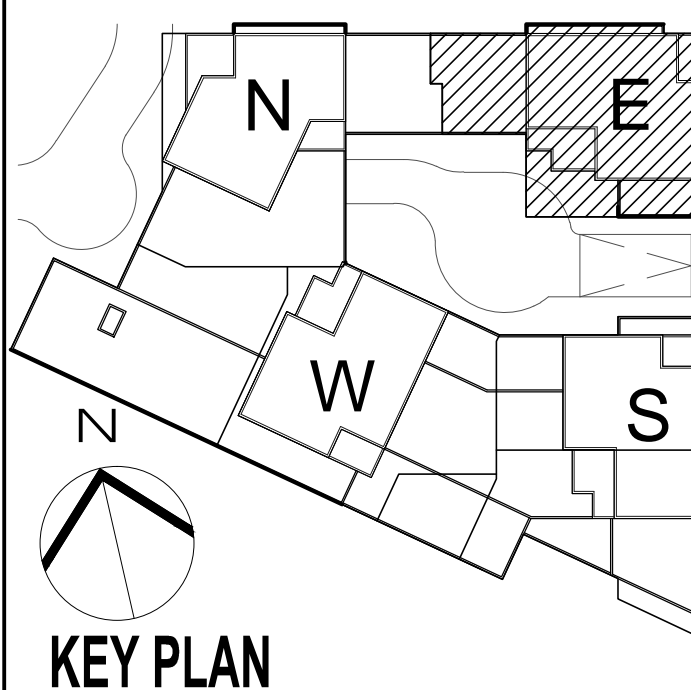
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(MAINTENANCE ONLY)

A-148  
A-147

A-148  
A-145

A-147  
A-143



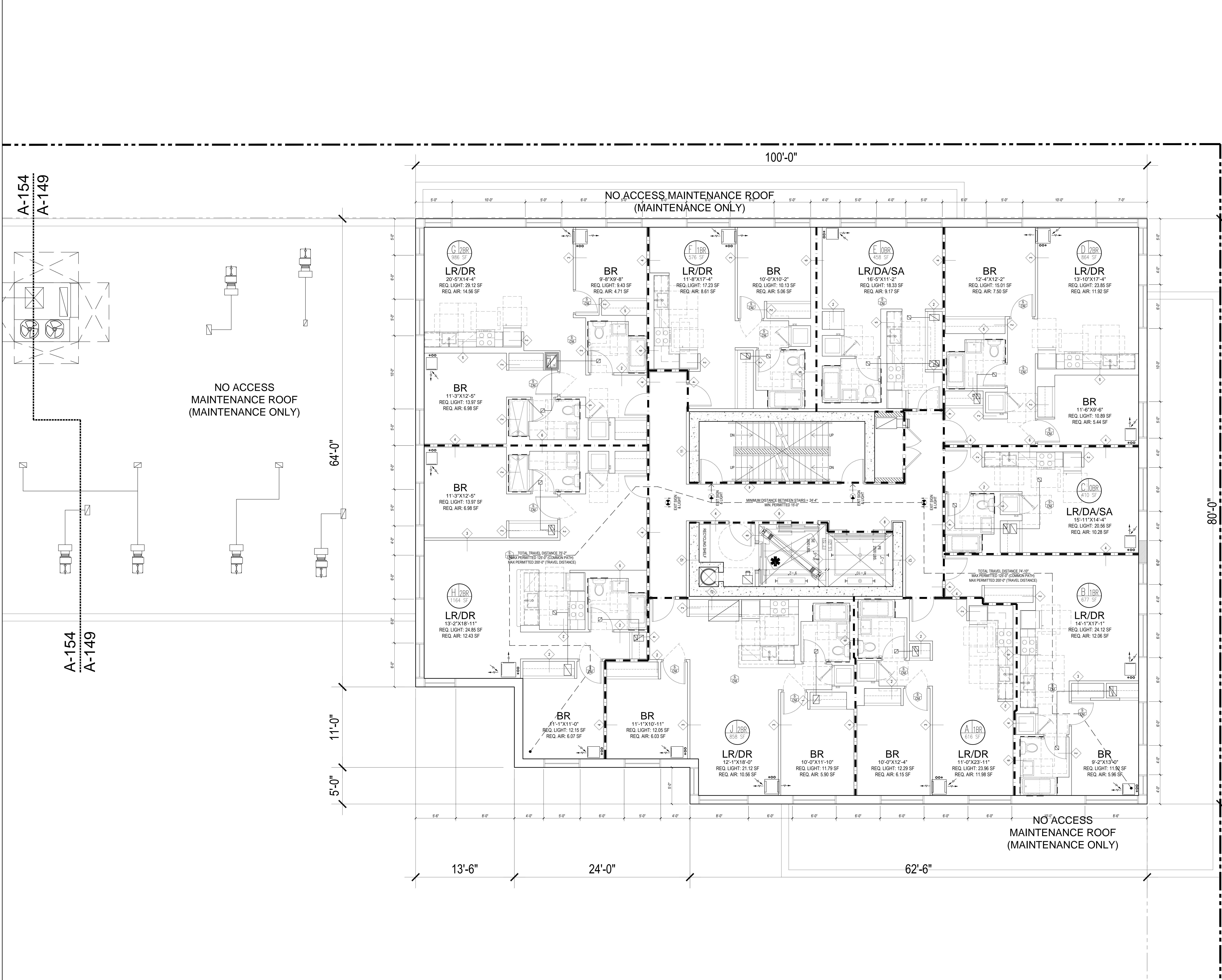


**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

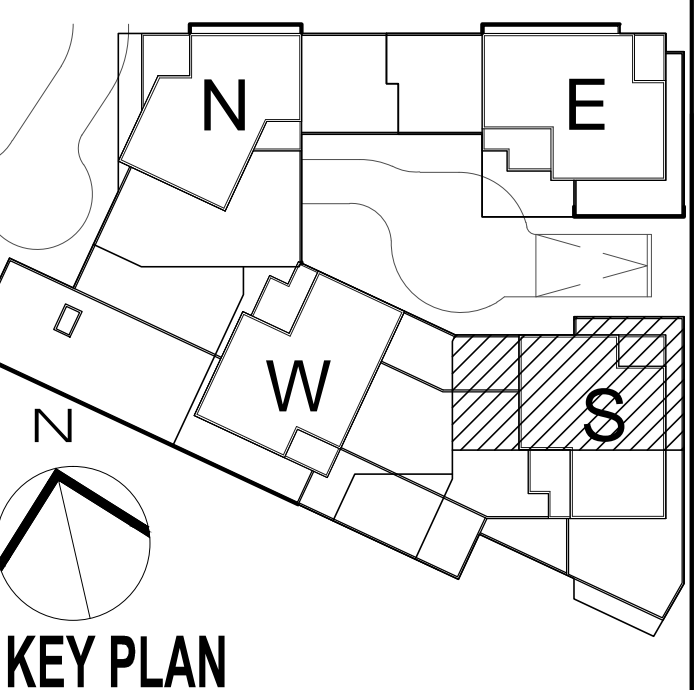
Number:	000 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018 SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451
Require Architect:	<b>GHW</b> Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011
M/E/P Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879
Consultant:	
Consultant:	
DOB SSAN:	
DOB STAMPS & SIGNATURES:	
DOB TITLE:	<b>7TH FLOOR ENLARGED PLAN</b>



**1 7TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"

DATE:	09/01/2015
PROJECT #:	15490
SCALE:	1/4" = 1'-0"
<b>A-149.00</b>	
CAD FILE:	215490 101 Lincoln Av_S80.rvt
SHEET:	68 OF 130

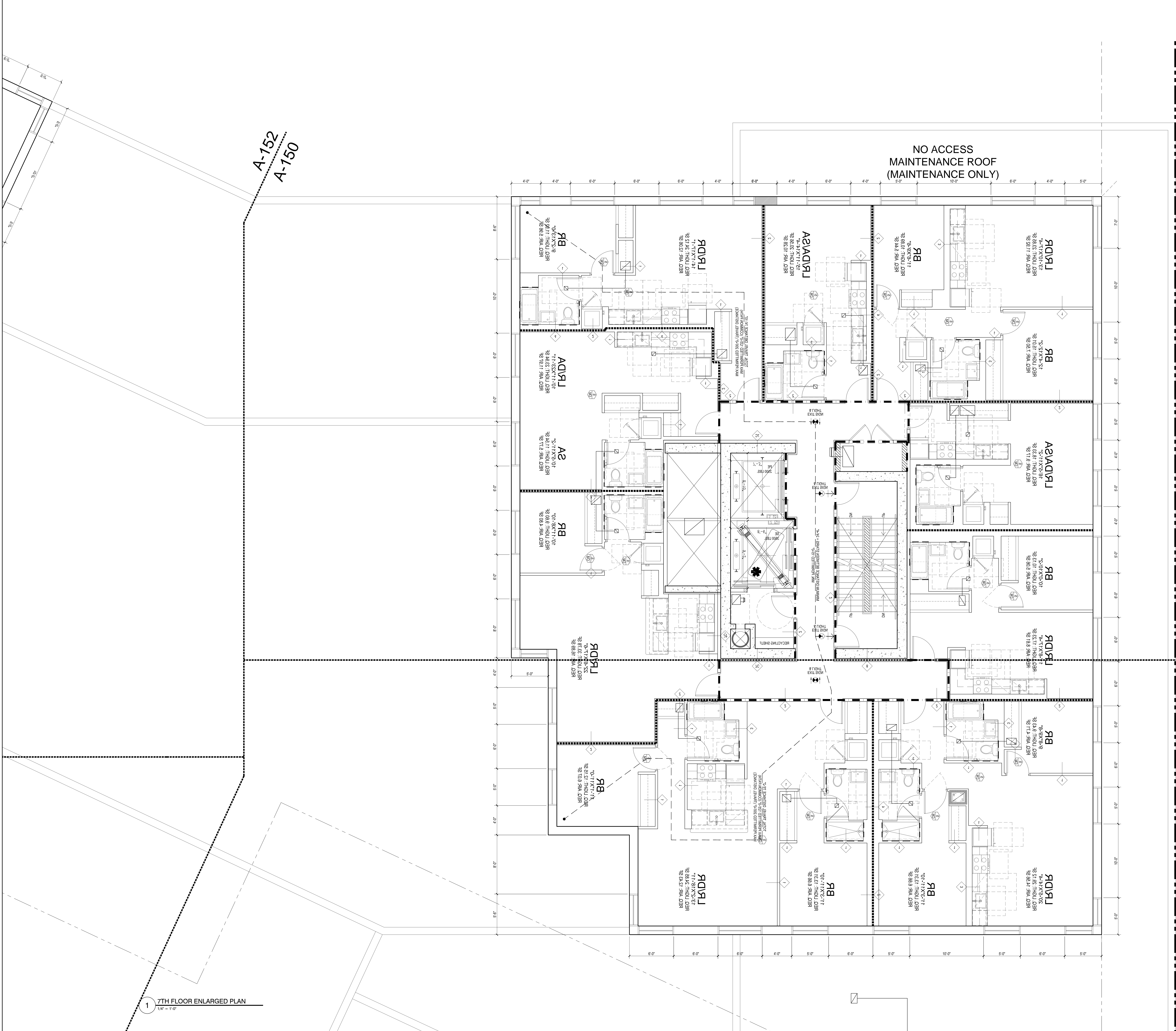




- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

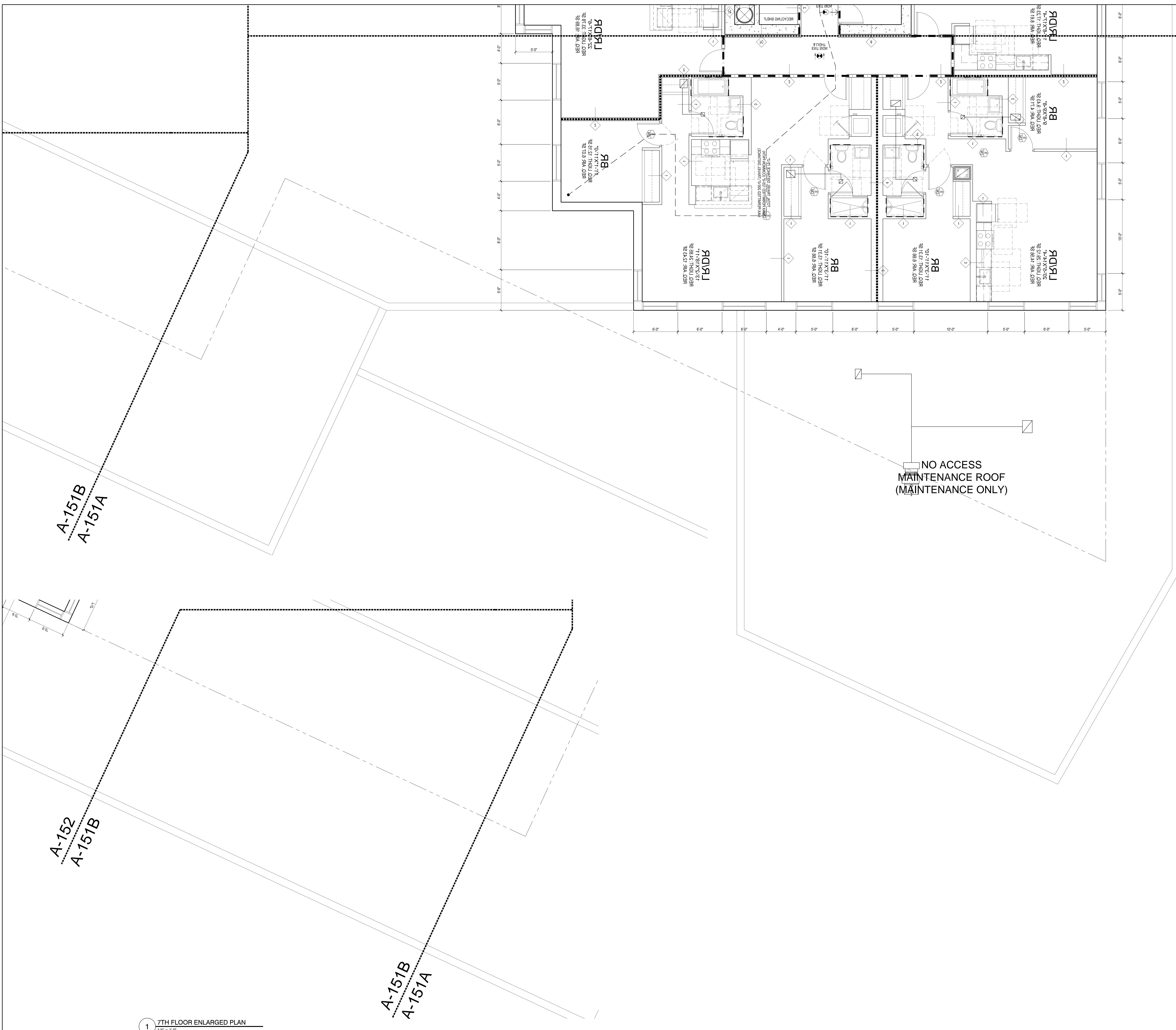
Number:	08/01/2015	003 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
Executive Architect:	<b>GHWA</b> Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	MFPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10021	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
Job Description:		
Job Stamps & Signatures:		
Drawn Title:	7TH FLOOR ENLARGED PLAN	
Scale & Signature:	DATE: 08/01/2015 PROJECT # : 15458 SCALE: 1/4" = 1'-0" <b>A-150.00</b>	SHEET 69 OF 130



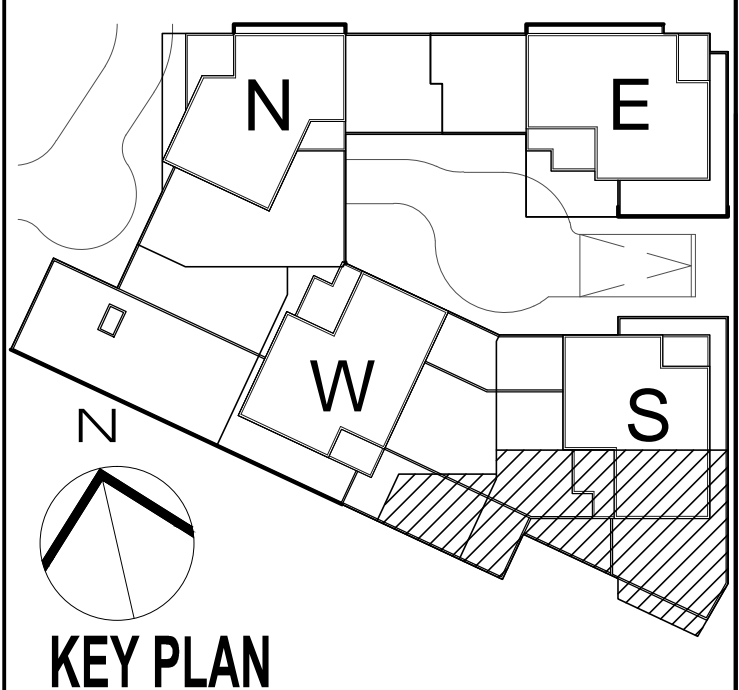
**1** 7TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

A-150  
A-151A





A-150  
A-151A



- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number: 19012015  
 Title: 003 SUBMISSION  
 OWNER: THE CHETREIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
**GHW**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEPP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 M/PFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

CONSULTANT:

EVIS DESIGN

EVIS STAMPS & SIGNATURES

EVIS STAMPS & SIGNATURES

EVIS STAMPS & SIGNATURES

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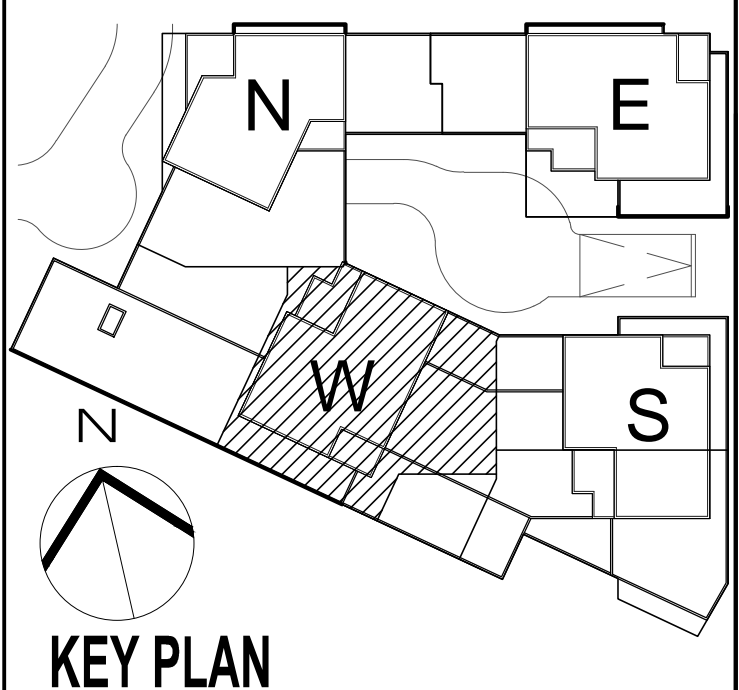
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A-151A

A-152  
A-151B

A-151B  
A-151A

NO ACCESS  
MAINTENANCE ROOF  
(MAINTENANCE ONLY)





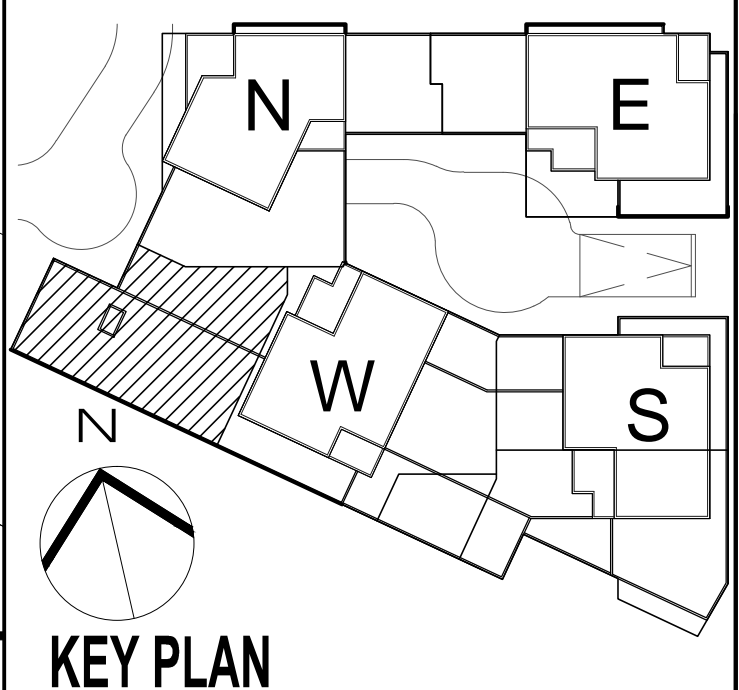
- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	08/12/15	Date:	08/12/15
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022		
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451		
Executive Architect:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
M/E/P Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
Landscape Architect:	MFPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10021		
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
Consultant:			
Consultant:			
DOB Design:			
DOB STAMPS & SIGNATURES:			
Drawn By:			
Checked By:			
DATE:	08/12/15		
PROJECT #:	1508		
SCALE:	1/4" = 1'-0"		
<b>A-152.00</b>			
CAD FILE:	215498 101 Lincoln Av_S68r		
SHEET #:	SHEET 21 OF 130		


1 7TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"





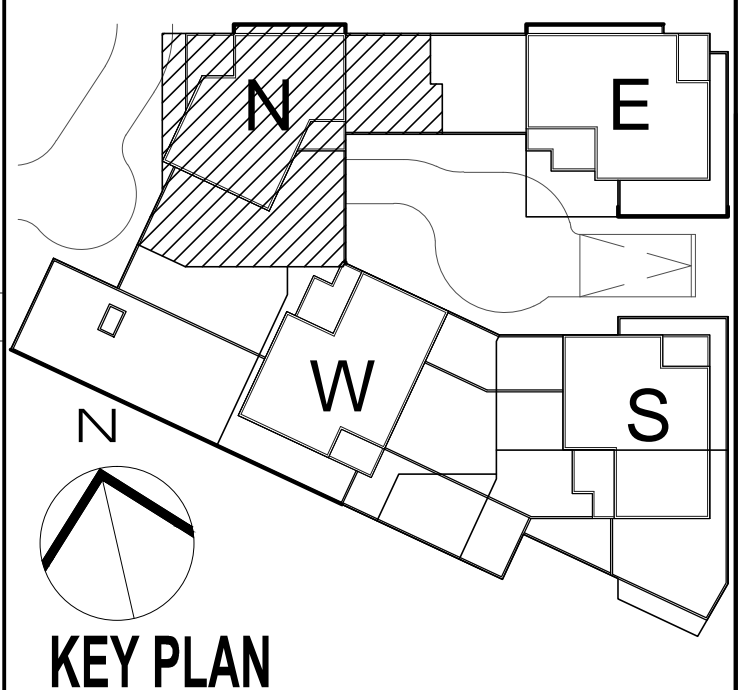
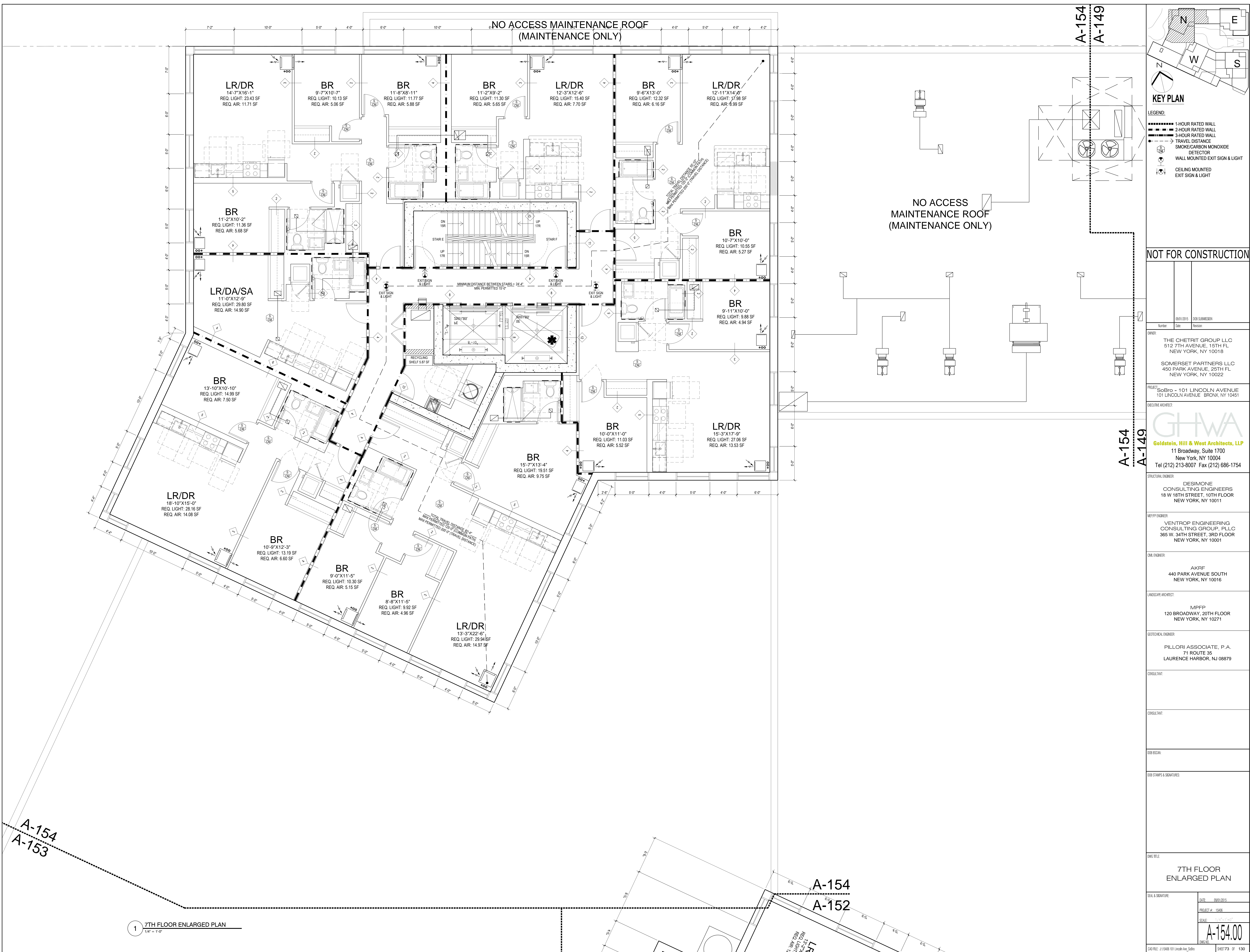
- LEGEND:**
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  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	08/01/2015	003.SUMISSON
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
DESIGN ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	MFPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
DOB DESIGN:		
DOB STAMPS & SIGNATURES:		
LONG TITLE:	7TH FLOOR ENLARGED PLAN	
SEAL & SIGNATURE:	DATE: 08/01/2015	PROJECT # 15403
	SCALE: 1/4" = 1'-0"	<b>A-153.00</b>
CAD FILE: 2115403 101 Lincoln Av_S68r	DWGNO:	SHEET 72 OF 130

1 7TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	001/015	Date:	03/25/2015
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018		
Owner:	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022		
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451		
Executive Architect:	G H W A Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271		
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
Consultant:			
Consultant:			
DOB Design:			
DOB Stamps & Signatures:			
DOB Title:	7TH FLOOR ENLARGED PLAN		
Seal & Signature:	Date:	08/01/2015	
Project #:	15-00000		
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Drawn By:			
Check By:			
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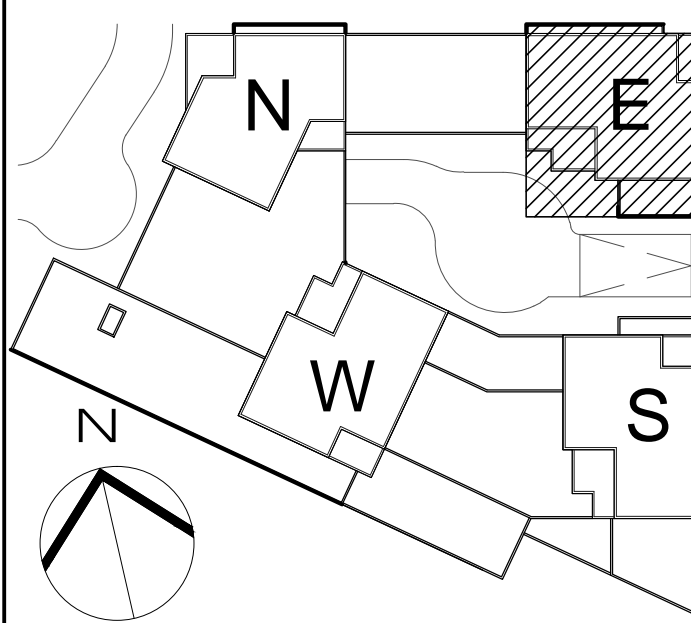
1 7TH FLOOR ENLARGED PLAN  
1/4" = 1'-0"

A-154  
A-153

A-154  
A-152

A-154  
A-149





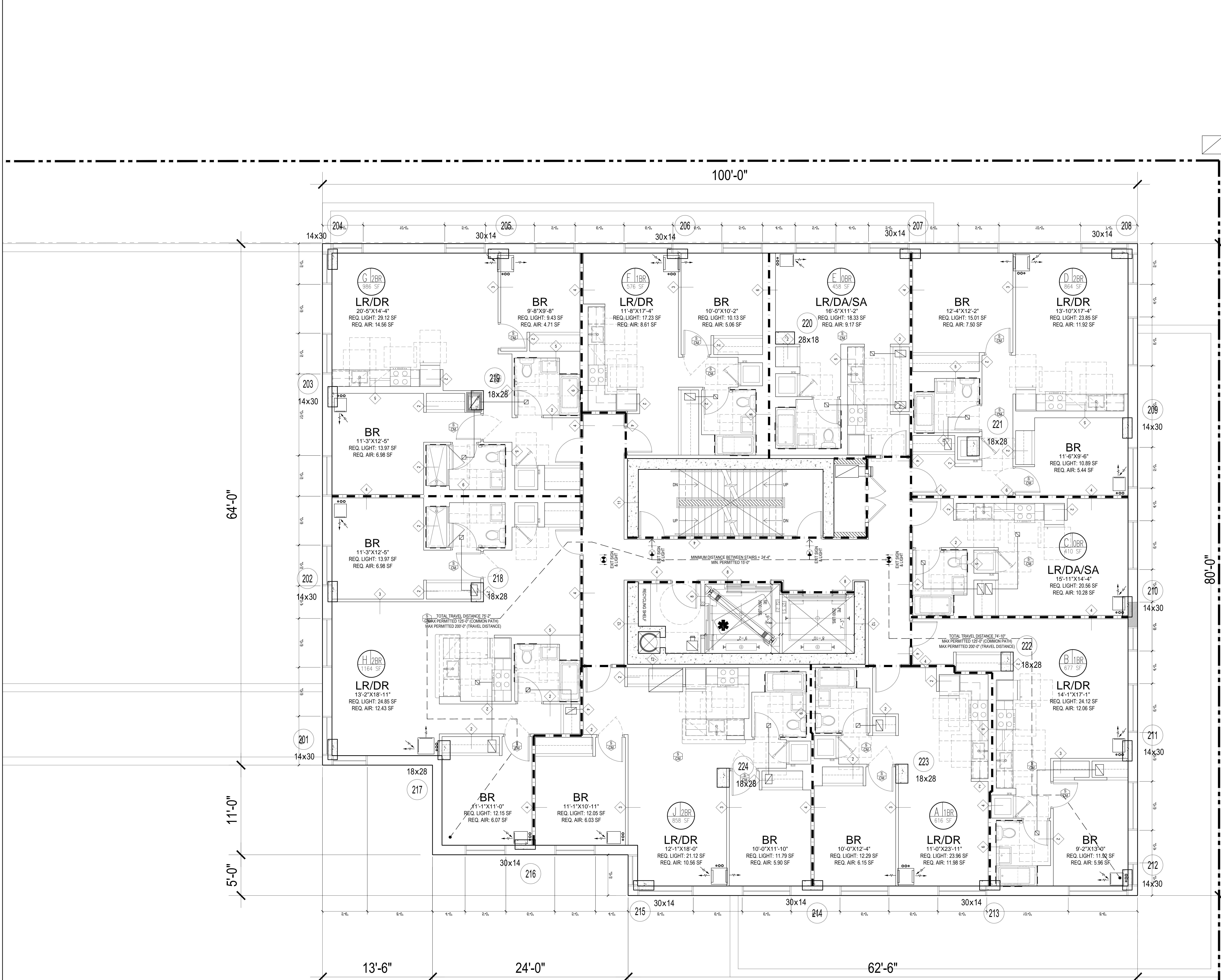
**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

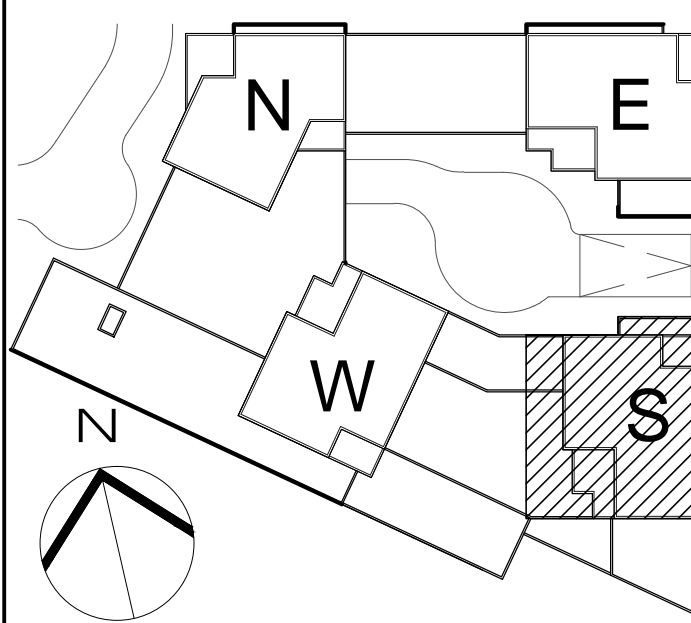
**NOT FOR CONSTRUCTION**

Number:	08/01/2015	008 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
Executive Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
M/E/P/F/P Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/PFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB SSAN:		
DOB STAMPS & SIGNATURES:		
DOB TITLE:		
<b>8TH-18TH FLOORS ENLARGED PLAN</b>		
SEAL & SIGNATURE:	DATE: 08/01/2015	PROJECT #: 0801
	SCALE: 1/4" = 1'-0"	
	<b>A-155.00</b>	
CAD FILE: J:\15498\101 Lincoln Av_S8th.dwg SHEET 74 OF 130		

**1 8TH-18TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"







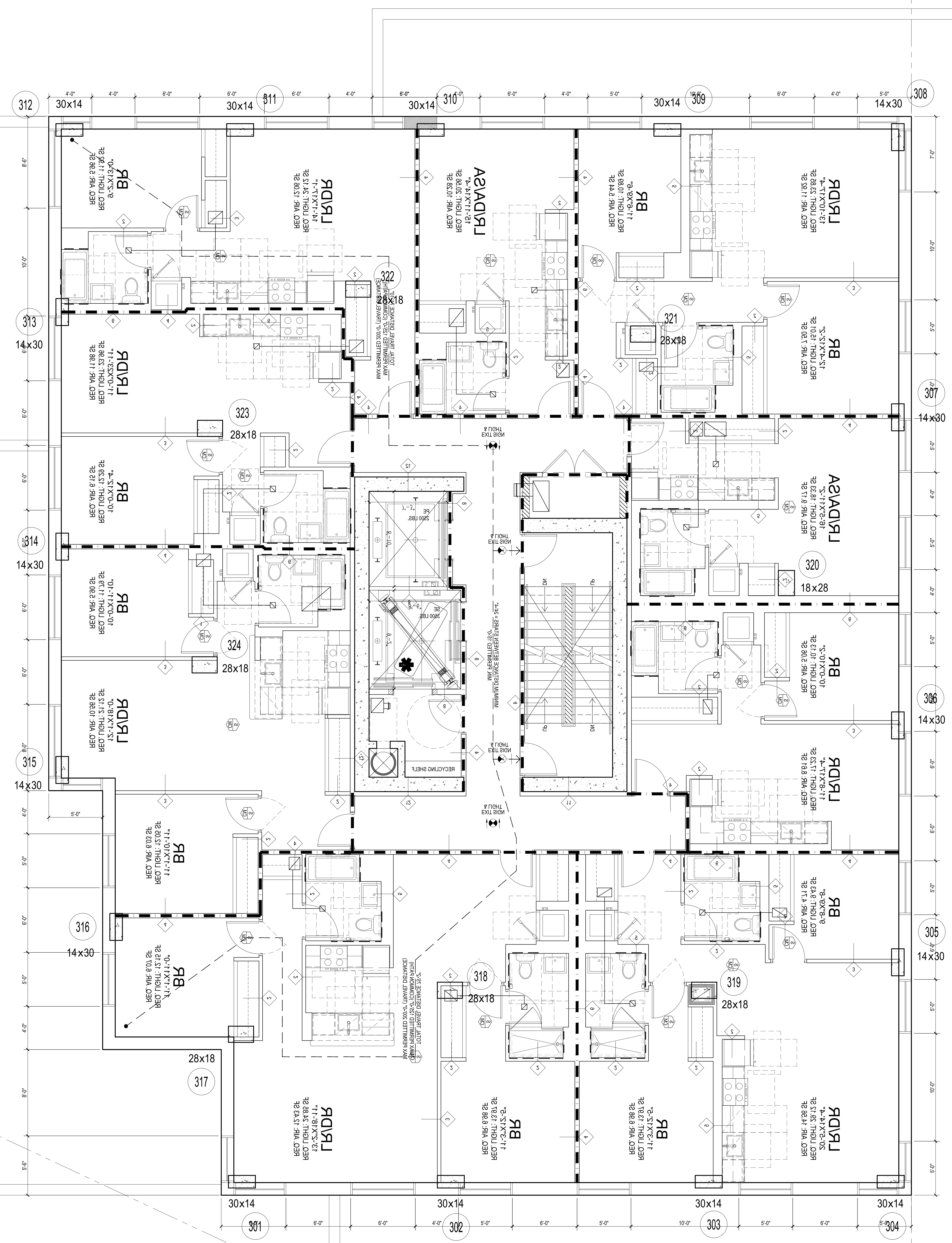
**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
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  - 3-HOUR RATED WALL
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  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

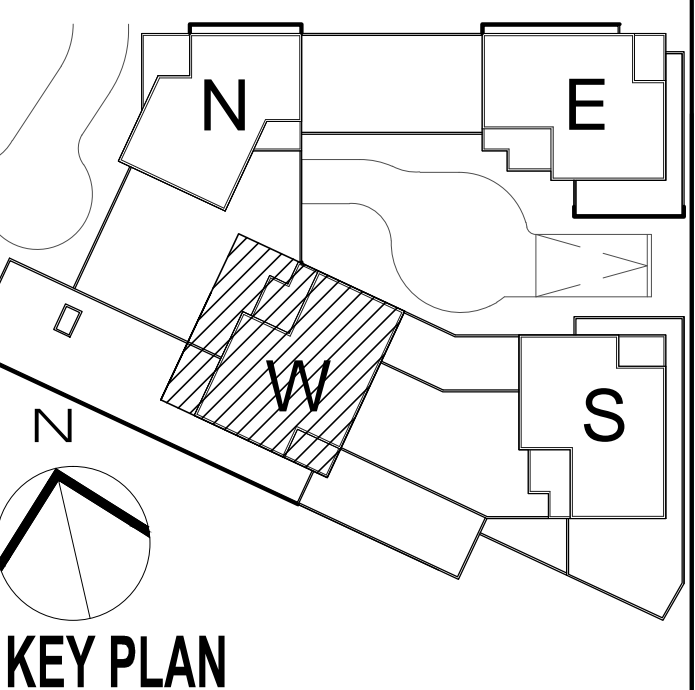
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<p>Number: 08/01/2015</p> <p>Revision: 003 SUBMISSION</p> <p>OWNER:          THE CHETRIT GROUP LLC          512 7TH AVENUE, 15TH FL          NEW YORK, NY 10018          SOMERSET PARTNERS LLC          450 PARK AVENUE, 25TH FL          NEW YORK, NY 10022</p> <p>PROJECT:          SoBro - 101 LINCOLN AVENUE          101 LINCOLN AVENUE BRONX, NY 10451</p> <p>DESIGN ARCHITECT:    <b>Goldstein, Hill &amp; West Architects, LLP</b>          11 Broadway, Suite 1700          New York, NY 10004          Tel (212) 213-8007 Fax (212) 686-1754</p> <p>STRUCTURAL ENGINEER:          DESIMONE CONSULTING ENGINEERS          18 W 18TH STREET, 10TH FLOOR          NEW YORK, NY 10011</p> <p>MEPP ENGINEER:          VENTROP ENGINEERING CONSULTING GROUP, PLLC          365 W. 34TH STREET, 3RD FLOOR          NEW YORK, NY 10001</p> <p>CIVIL ENGINEER:          AKRF          440 PARK AVENUE SOUTH          NEW YORK, NY 10016</p> <p>LANDSCAPE ARCHITECT:          MFPF          120 BROADWAY, 20TH FLOOR          NEW YORK, NY 10271</p> <p>GEOTECHNICAL ENGINEER:          PILLORI ASSOCIATE, P.A.          71 ROUTE 35          LAURENCE HARBOR, NJ 08879</p> <p>CONSULTANT:</p> <p>CONSULTANT:</p> <p>DOB DESIGN:</p> <p>DOB STAMPS &amp; SIGNATURES:</p> <p>DOB TITLE:</p>	<p>DATE: 08/01/2015</p> <p>PROJECT #: 15458</p> <p>SCALE: 1/8" = 1'-0"</p> <p style="font-size: 1.5em; font-weight: bold;">A-156.00</p> <p>CAD FILE: 2115458 101 Lincoln Av_S8th          SHEET 75 OF 130</p>
--	---

**1 8TH-18TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"







**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

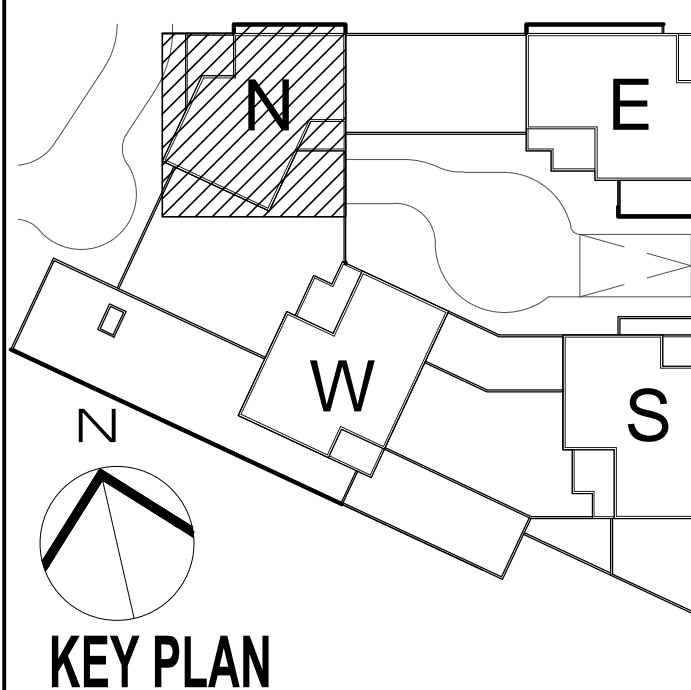
**NOT FOR CONSTRUCTION**

	08/12/15	003 SUBMISSION	
Number:	Date:	Revision:	
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022		
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451		
DESIGNER ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271		
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
CONSULTANT:			
CONSULTANT:			
DOB DESIGN:			
DOB STAMPS & SIGNATURES:			
OWNER TITLE:	<b>8TH-18TH FLOOR ENLARGED PLAN</b>		
SEAL & SIGNATURE:	DATE:	08/12/15	
	PROJECT #:	003	
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CAD FILE: 2115498 101 Lincoln Av_S8th			

**1 8TH-18TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"





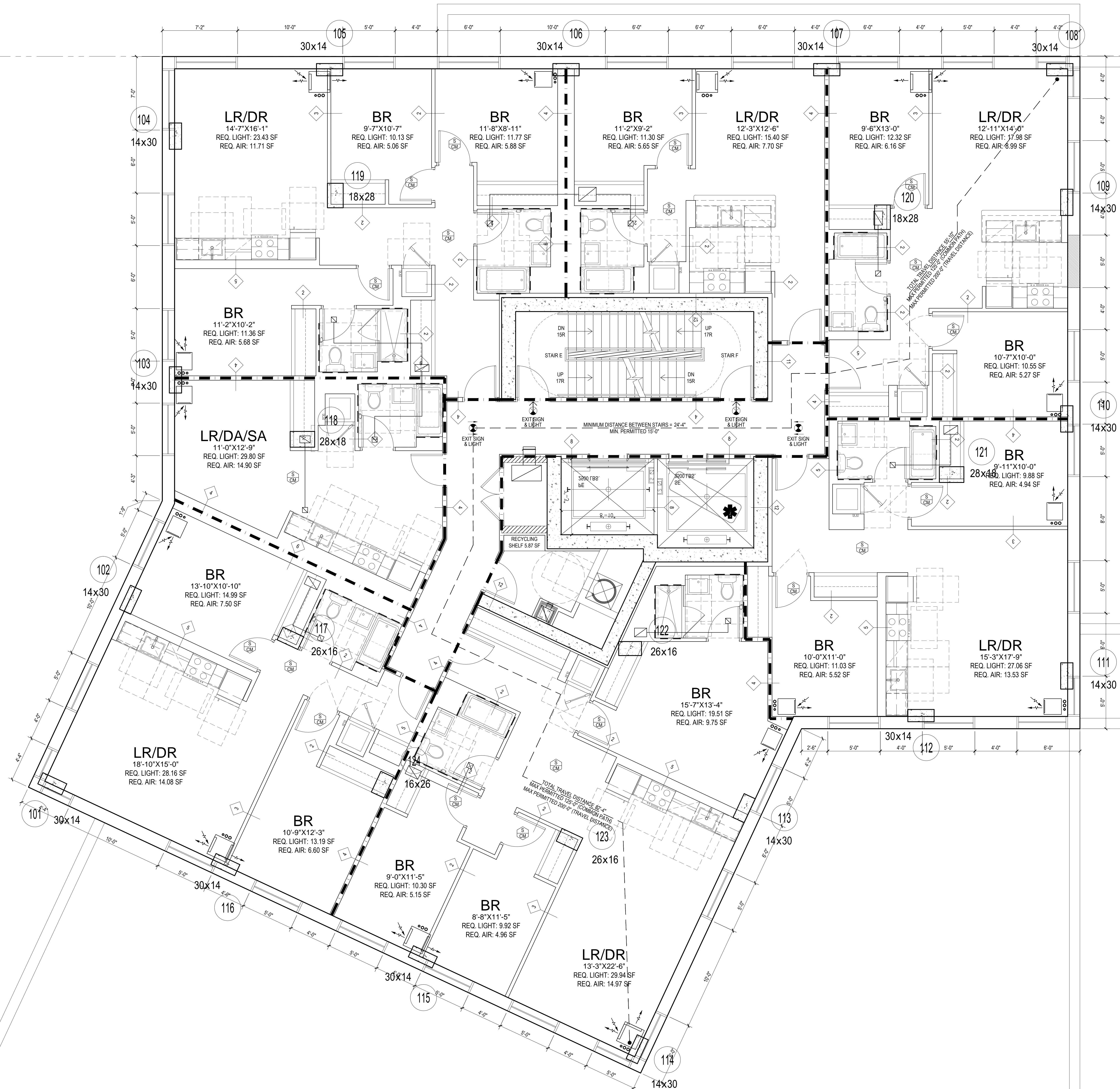


**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
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  - SMOKE/CARBON MONOXIDE DETECTOR
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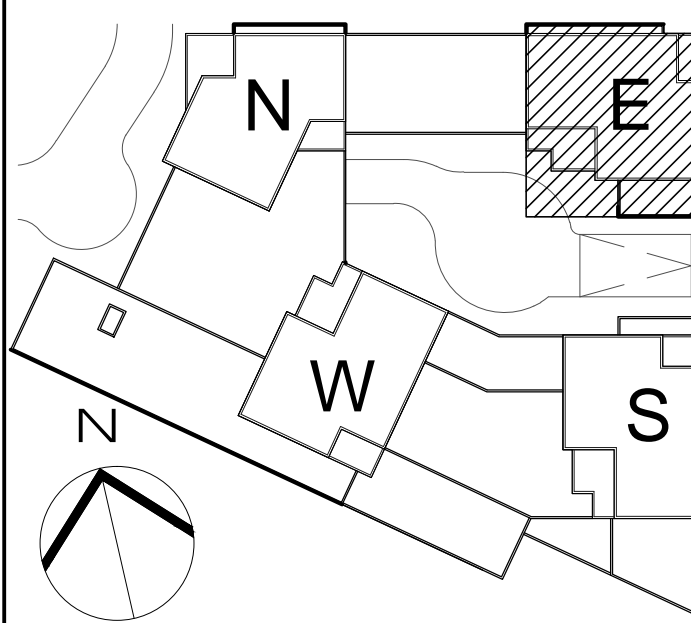
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<p>Number: 18010915 Date: 03/03/2015</p> <p>OWNER: THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018</p> <p>SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022</p> <p>PROJECT: SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451</p> <p>REGISTERED ARCHITECT: <b>GHW</b> Goldstein, Hill &amp; West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754</p> <p>STRUCTURAL ENGINEER: DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011</p> <p>MEPP ENGINEER: VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001</p> <p>CIVIL ENGINEER: AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016</p> <p>LANDSCAPE ARCHITECT: M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271</p> <p>GEOTECHNICAL ENGINEER: PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879</p> <p>CONSULTANT:</p> <p>CONSULTANT:</p> <p>DOB DESIGN:</p> <p>DOB STAMPS &amp; SIGNATURES:</p> <p>DOB TITLE:</p>	<p>DATE: 03/03/2015</p> <p>PROJECT #: 18010915</p> <p>SCALE: 1/8" = 1'-0"</p> <p style="font-size: 24pt; font-weight: bold;">A-158.00</p> <p>CAD FILE: J:\15808\101 Lincoln Av_S8Bro</p> <p>SHEET 77 OF 130</p>
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**1 8TH-18TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"





**KEY PLAN**

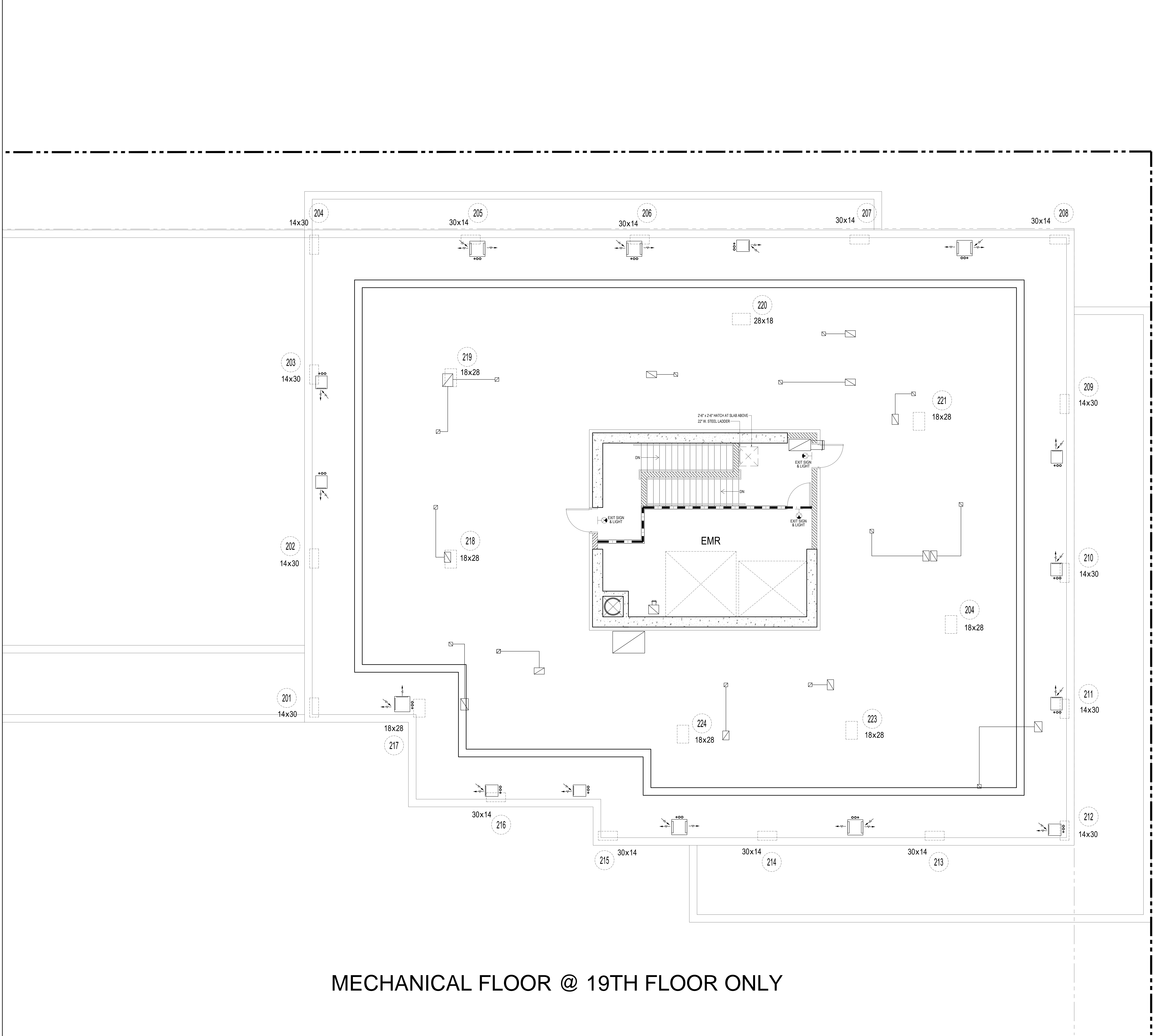
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  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

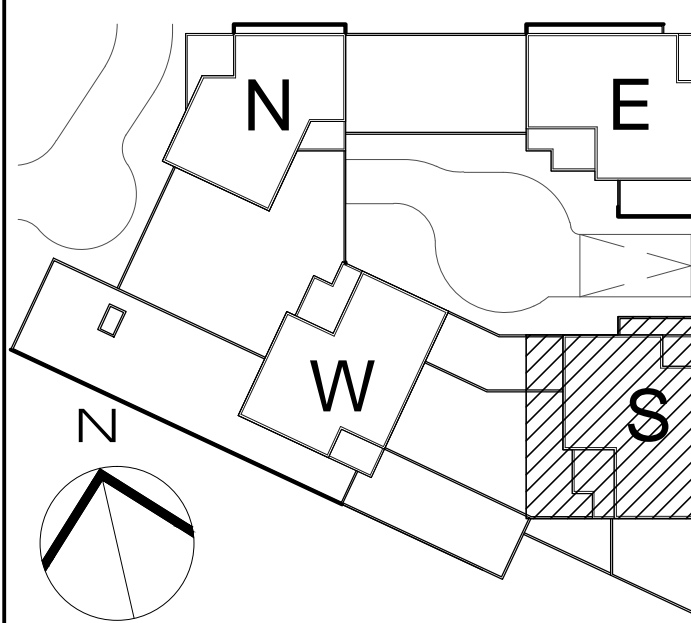
Number:	08/12/15	003 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL. NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL. NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
Executive Architect:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB SEAL:		
DOB STAMPS & SIGNATURES:		
LONG TITLE:	MAIN ROOF ENLARGED PLAN	
SEAL & SIGNATURE:	DATE:	08/12/15
	PROJECT #:	1548
	SCALE:	1/4" = 1'-0"
	<b>A-159.00</b>	
CAD FILE: 2115488 101 Lincoln Av_S68r	SHEET 78	OF 130

**MECHANICAL FLOOR @ 19TH FLOOR ONLY**

1 ROOF ENLARGED PLAN  
1/4" = 1'-0"





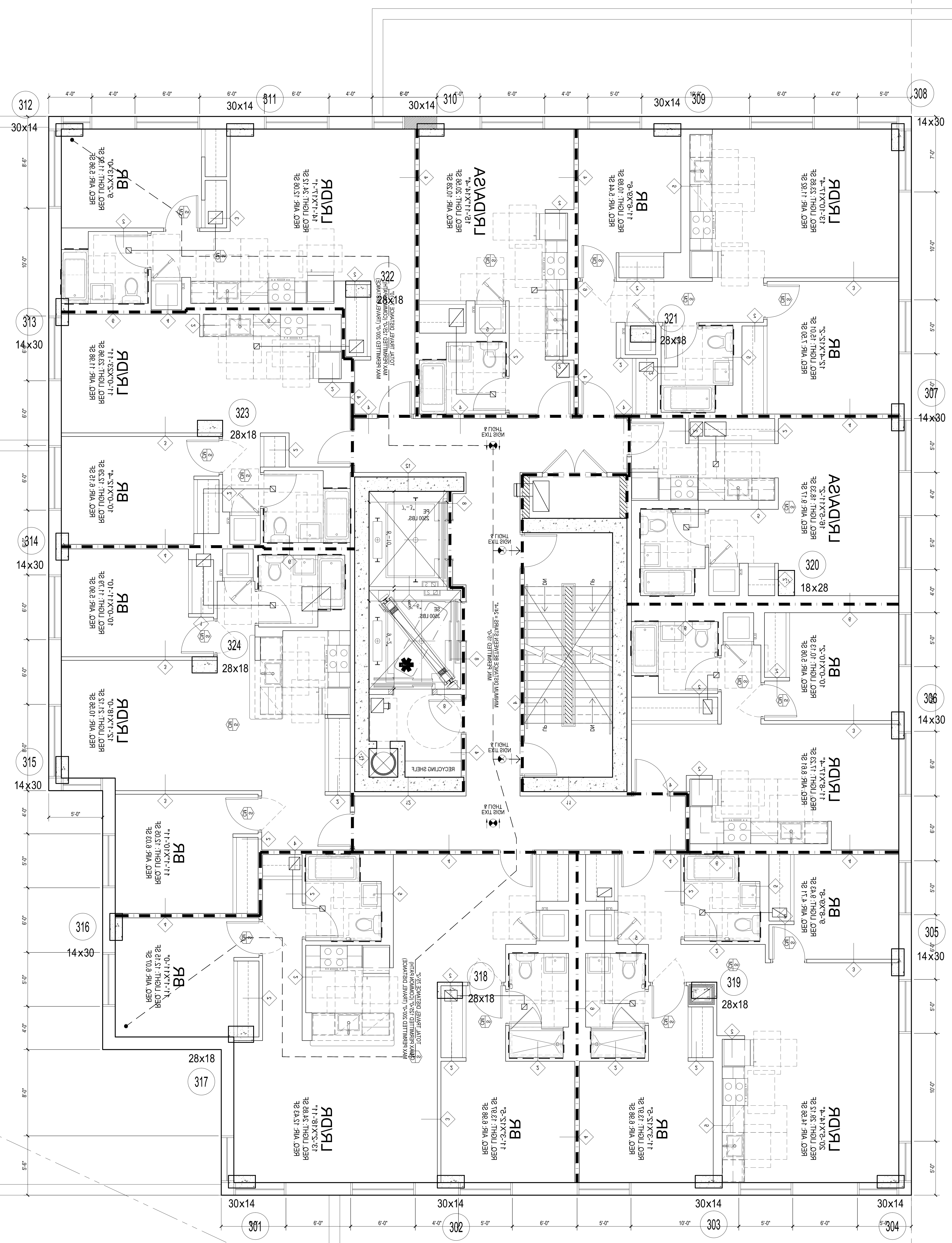


**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
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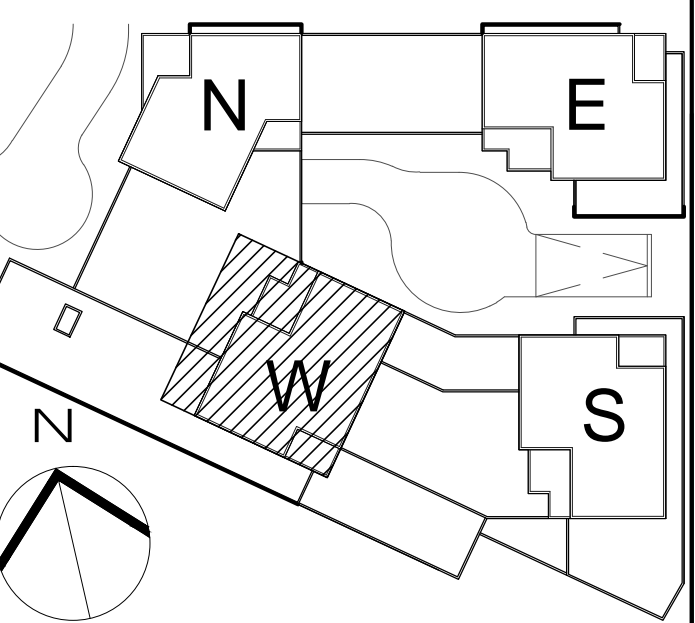
**NOT FOR CONSTRUCTION**

Number:	09/01/2015	Date:	09/01/2015
Revision:		Drawn:	
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022		
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451		
DESIGN ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
LANDSCAPE ARCHITECT:	MFPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271		
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
CONSULTANT:			
CONSULTANT:			
DOB DESIGN:			
DOB STAMPS & SIGNATURES:			
DWG TITLE:	<b>19TH-21ST FLOOR ENLARGED PLAN</b>		
SCALE:	1/4" = 1'-0"		
DATE:	09/01/2015	PROJECT #:	1460
SCALE:	1/4" = 1'-0"	DWG NO.:	A-160.00
CAD FILE:	2115498 101 Lincoln Av_S68r	SHEET 79	OF 130



**1 19TH-21ST FLOOR ENLARGED PLAN**  
1/4" = 1'-0"





**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

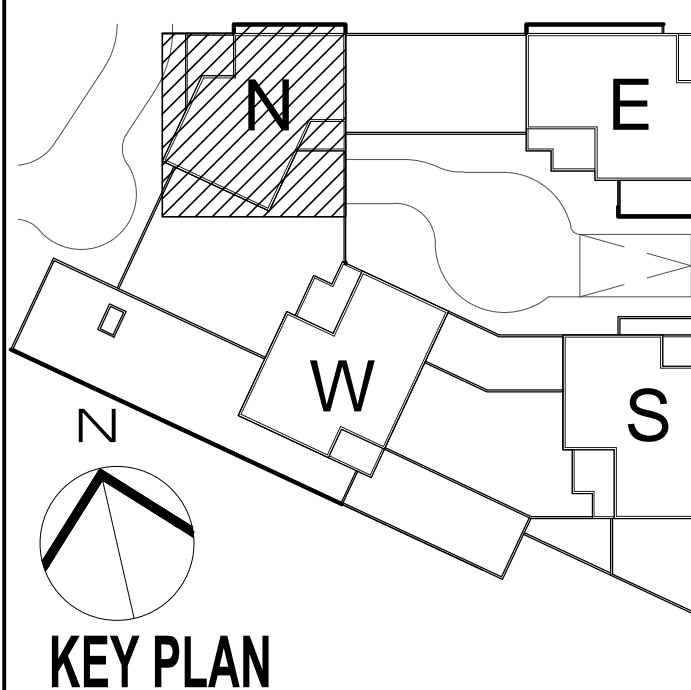
**NOT FOR CONSTRUCTION**

	09/12/15	003 SUBMISSION
Number:	09/12/15	003 SUBMISSION
Revision:		
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
DESIGNER ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
JOB SHEET:		
JOB STAMPS & SIGNATURES:		
DWG TITLE:	<b>19TH-21ST FLOORS ENLARGED PLAN</b>	
SCALE & SIGNATURE:	DATE: 09/12/15	PROJECT # : 1508
	SCALE: 1/8" = 1'-0"	
	<b>A-161.00</b>	
CAD FILE: 211508 101 Lincoln Av_S08.rvt	SHEET NO: 07	130

**1 19TH-21ST FLOOR ENLARGED PLAN**  
1/4" = 1'-0"



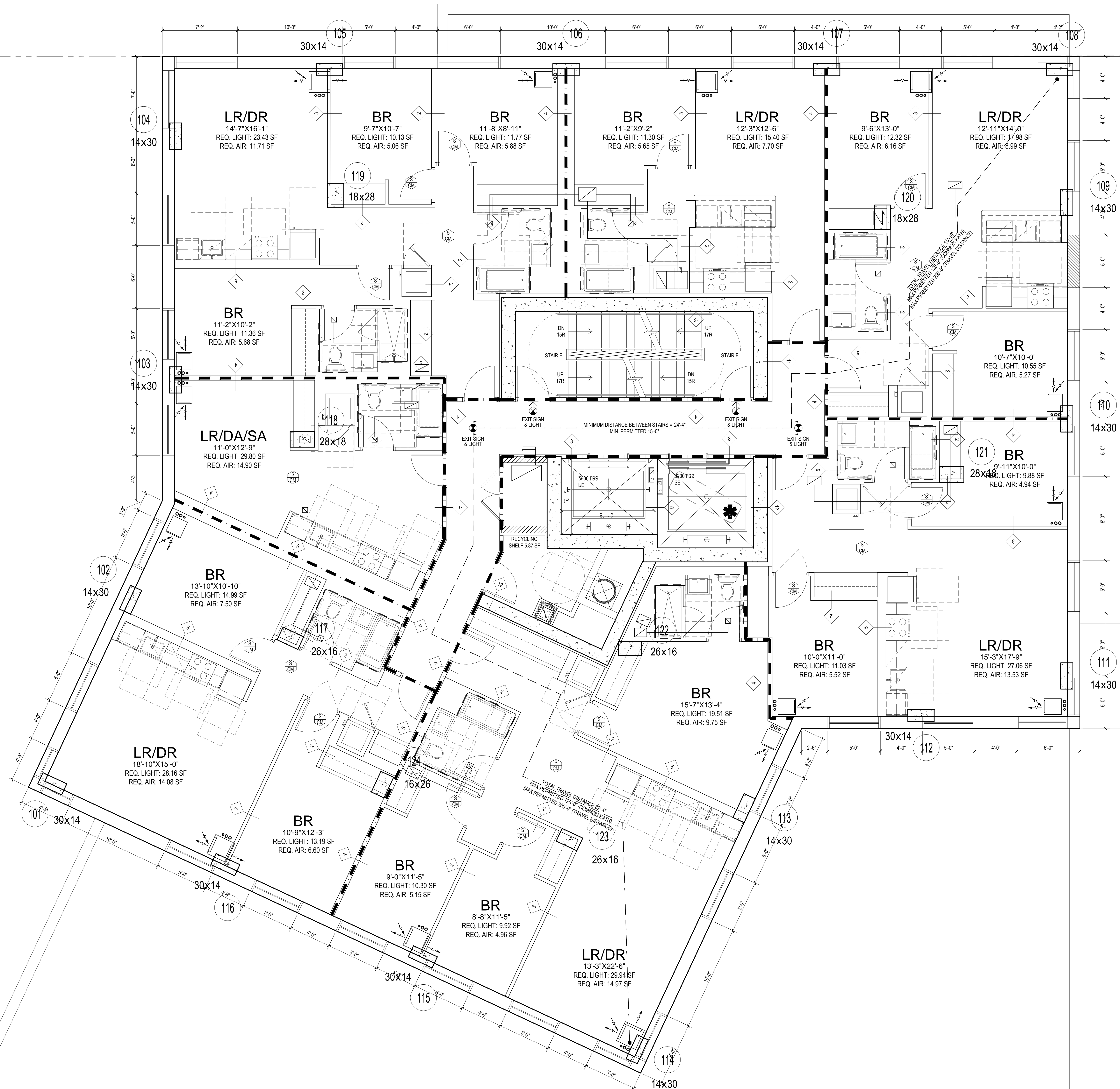




- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

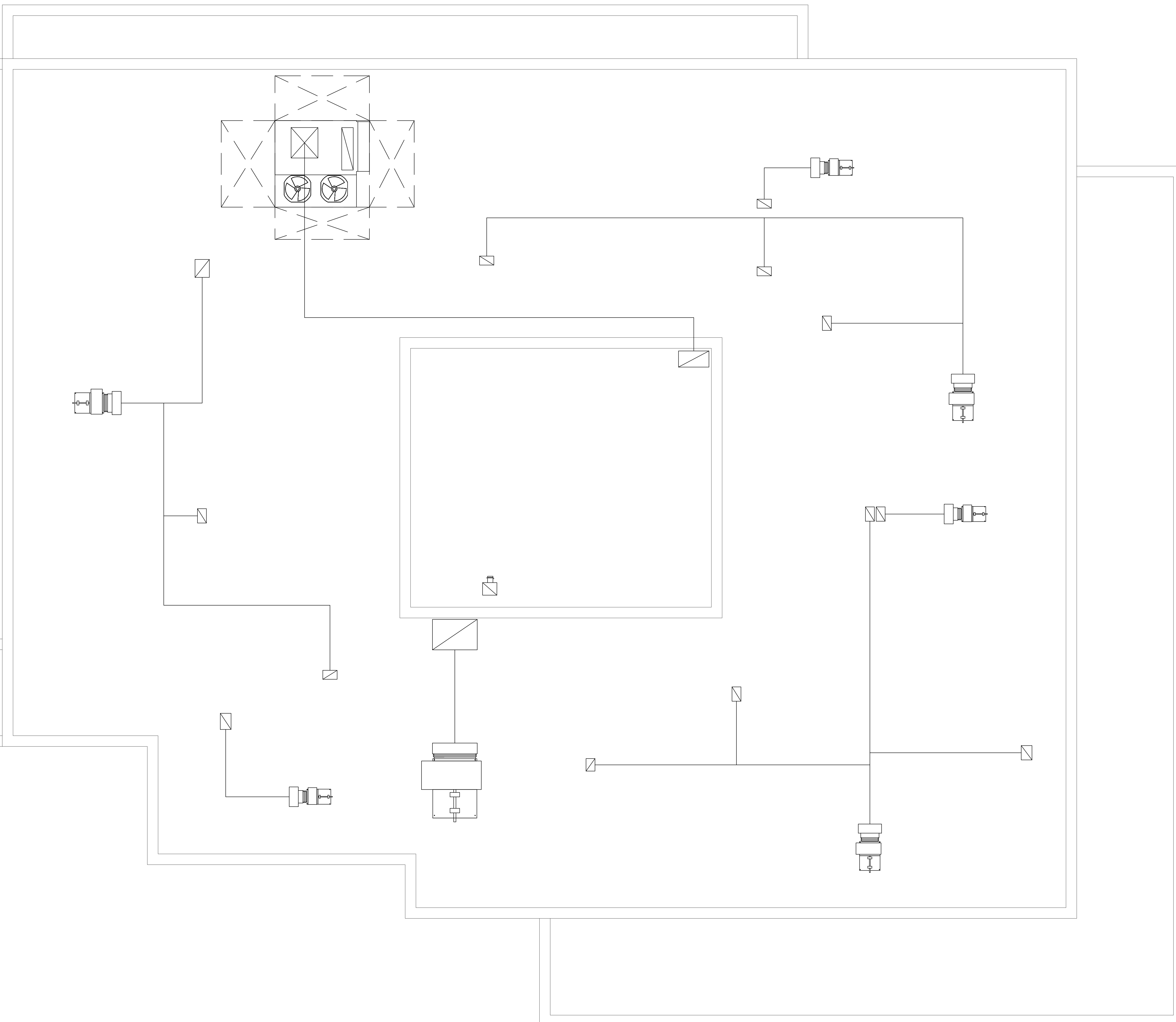
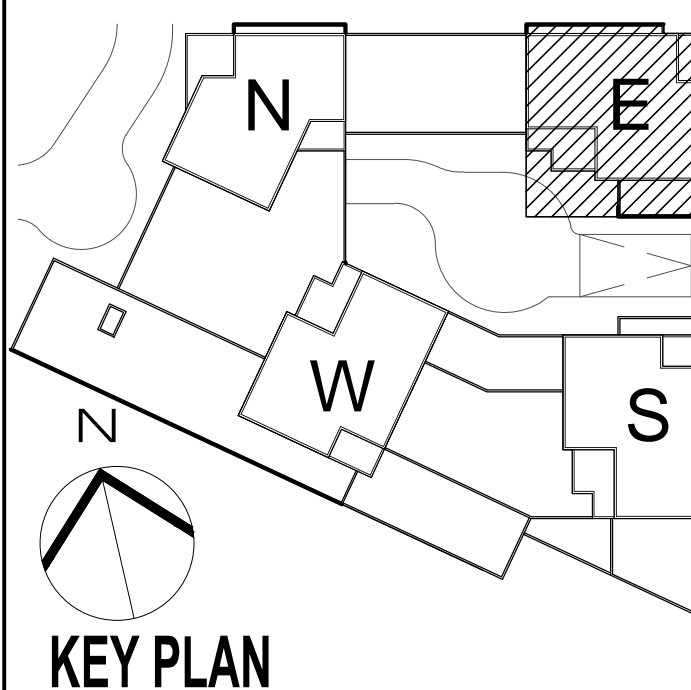
**NOT FOR CONSTRUCTION**

Number:	08/01/2015	003 SUBMISSION
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451	
Executive Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB Stamps & Signatures:		
Drawn By:		
Scale:	1/4" = 1'-0"	
Sheet Title:	19TH-21ST FLOORS ENLARGED PLAN	
Seal & Signature:	DATE: 08/01/2015	PROJECT # : 1908
	SCALE: 1/4" = 1'-0"	
	<b>A-162.00</b>	
CD FILE: J:\1508\101 Lincoln Av_SoBro	SHEET 81	OF 130



**1 19TH-21ST FLOOR ENLARGED PLAN**  
1/4" = 1'-0"





**NOT FOR CONSTRUCTION**

Number	Date	Revision
08/01/2015	08/01/2015	003 SUBMISSION

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL.  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL.  
 NEW YORK, NY 10022

**PROJECT:** SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE  
 CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**ME/PFP ENGINEER:**  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CME ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 M/PFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

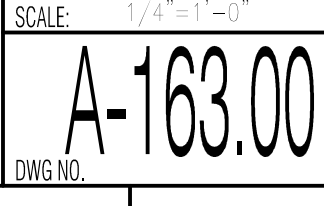
**CONSULTANT:**

**CONSULTANT:**

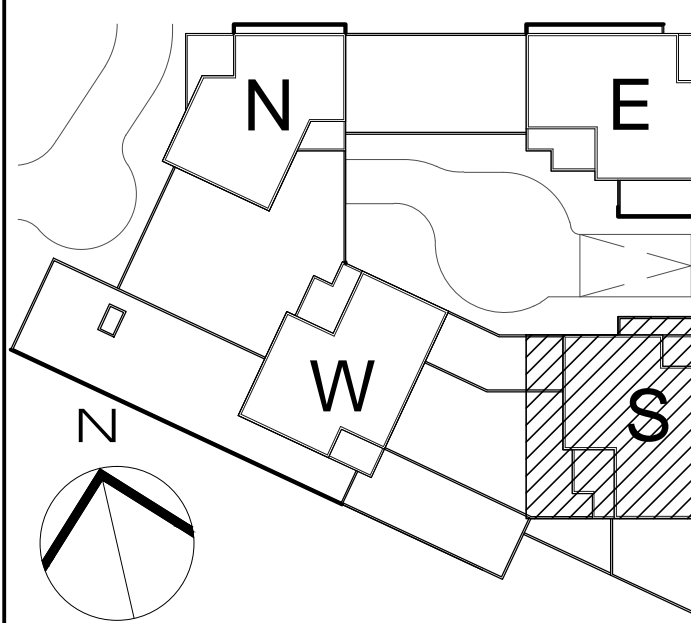
**DOB DESIGN:**

**DOB STAMPS & SIGNATURES:**

**OWNG TITLE:**  
**BULKHEAD ROOF ENLARGED PLAN**

SEAL & SIGNATURE	DATE	08/01/2015
	PROJECT #	15405
	SCALE	1/4" = 1'-0"
		<b>A-163.00</b>

**1 BULKHEAD ROOF ENLARGED PLAN**  
 1/4" = 1'-0"

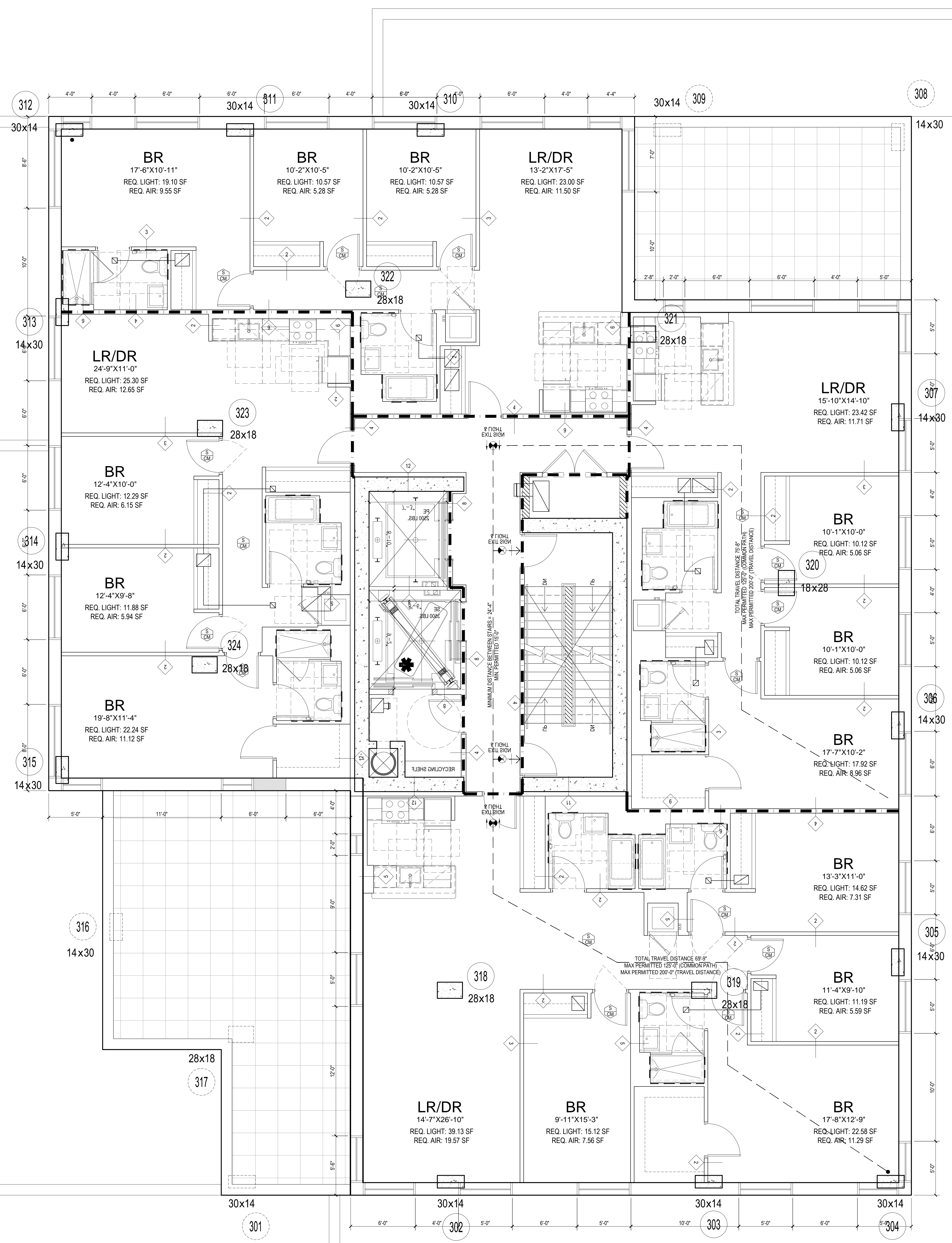


**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

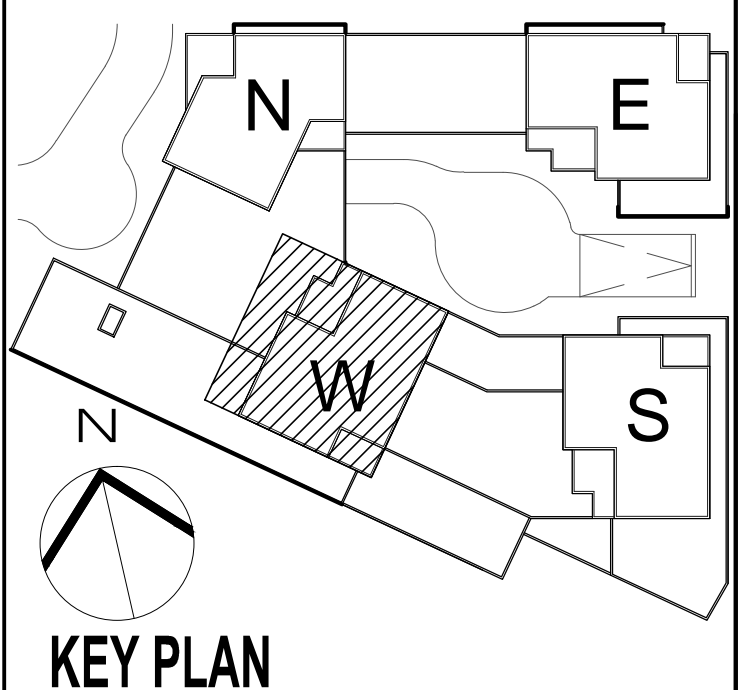
**NOT FOR CONSTRUCTION**

Number:	001/015	JOB SUBMISSION
Owner:	THE CHETREIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
Executive Architect:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
Landscape Architect:	MFPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB Design:		
DOB Stamps & Signatures:		
DOB Title:	22ND-25TH FLOOR ENLARGED PLAN	
Seal & Signature:	Date:	08/01/2015
	Project #:	1501
	Scale:	1/4" = 1'-0"
	<b>A-164.00</b>	
CD File:	215498 101 Lincoln Av. SoBro	SHEET 83 OF 130



**1 22ND-25TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"



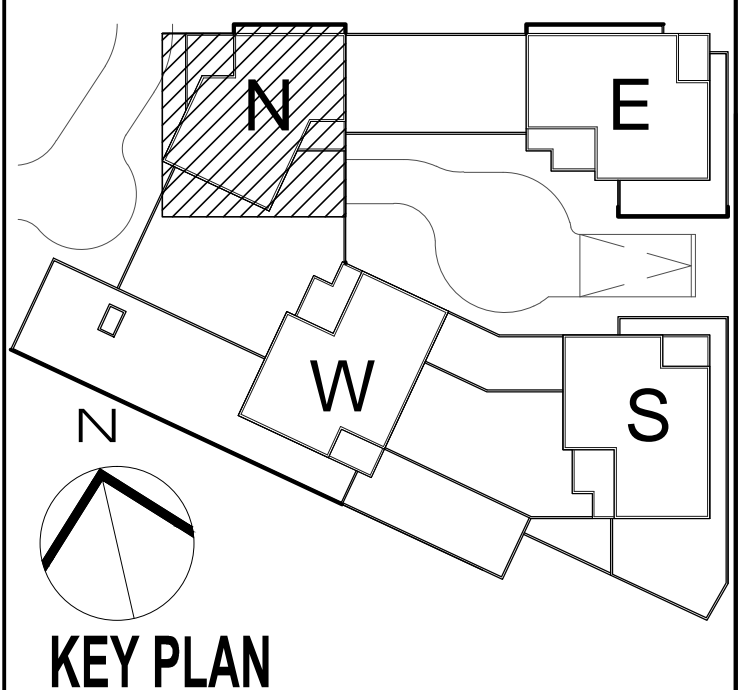
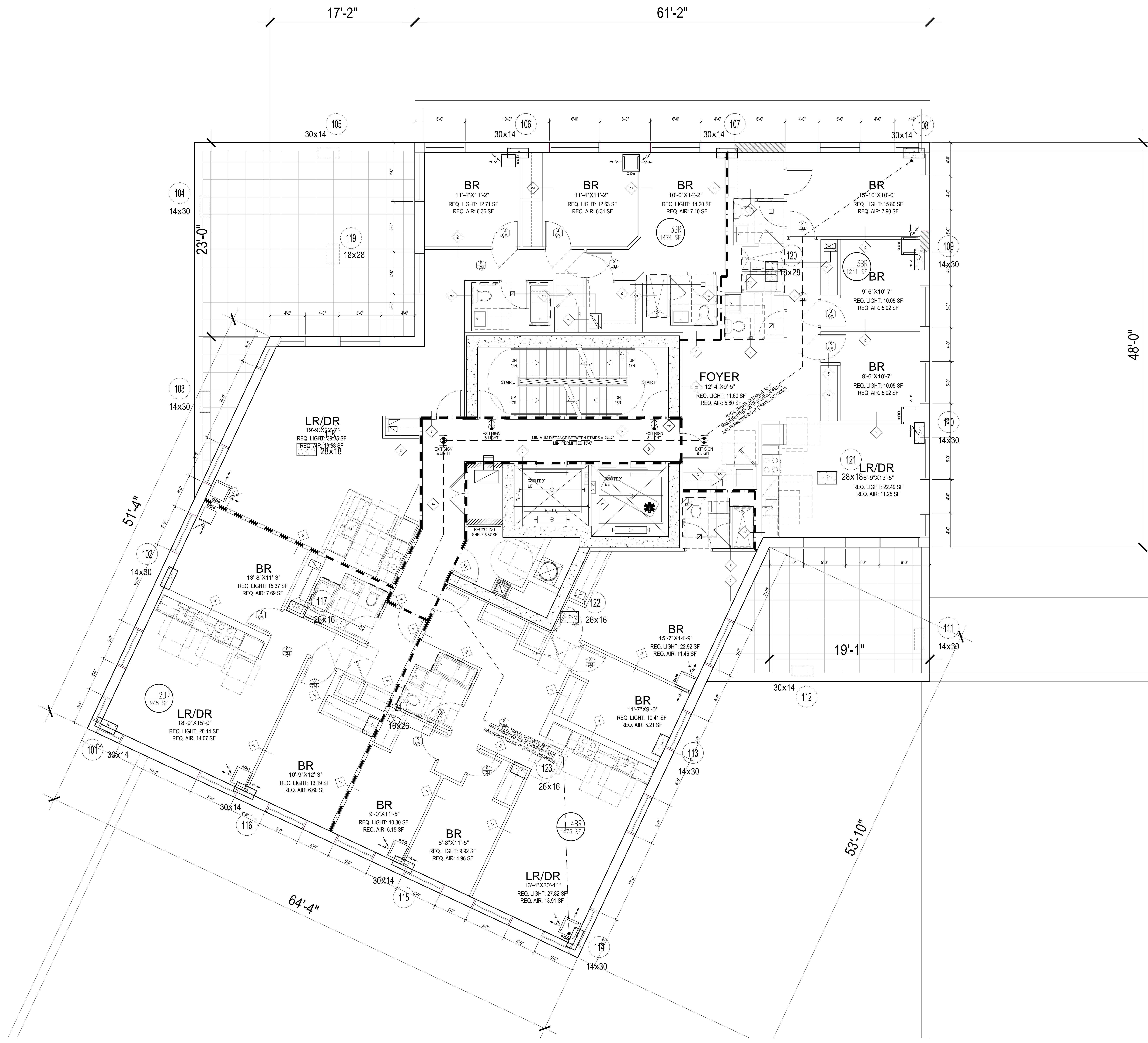


- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

NOT FOR CONSTRUCTION

Number:	001/2015	Date:	03/23/2015
Owner:	THE CHETREIT GROUP LLC 512 7TH AVENUE, 15TH FL. NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL. NEW YORK, NY 10022		
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE, BRONX, NY 10451		
Architect:	<b>GHWA</b> Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
Landscape Architect:	MFPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271		
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
Consultant:			
Consultant:			
DOB Sign:			
DOB Stamps & Signatures:			
Drawn Title:	22ND-25TH FLOOR ENLARGED PLAN		
Seal & Signature:	Date:	08/03/2015	
Project #:	15015		
Scale:	1/4" = 1'-0"		
Sheet No.:	A-165.00		
File Path:	C:\015\15015\101 Lincoln Ave_SoBro		
Sheet No.:	SHEET 84 OF 130		





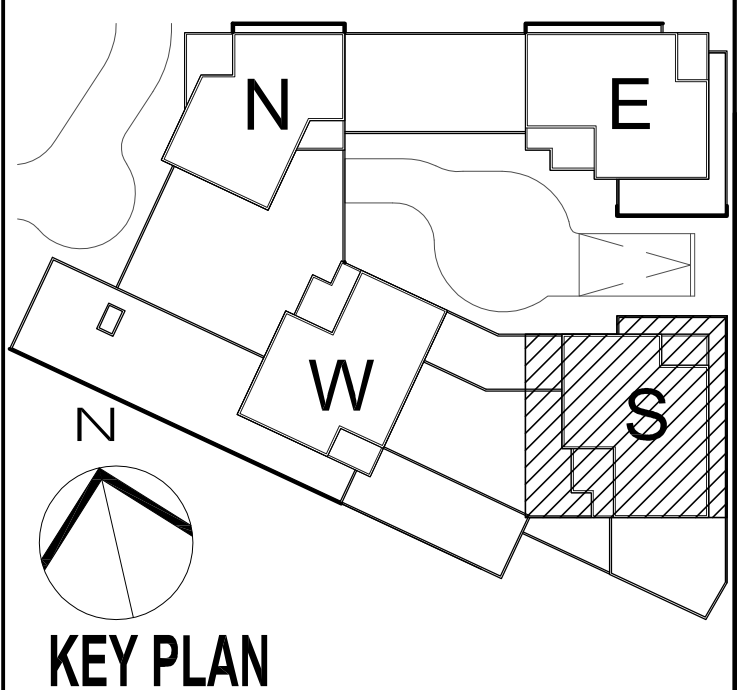
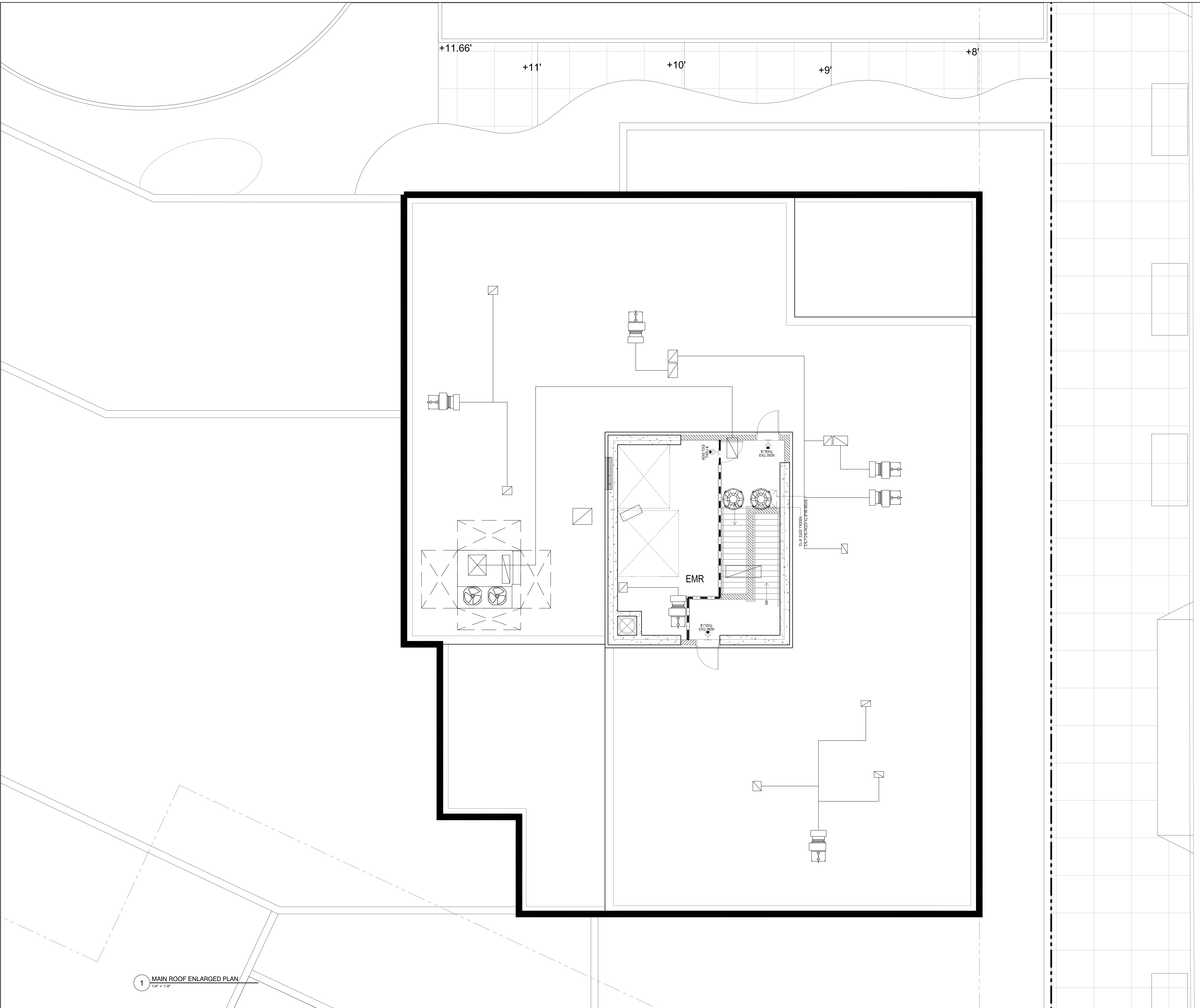
- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number:	001/2015	Revision:	001 SUBMISSION
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022		
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451		
REGISTERED ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011		
MEPP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001		
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016		
LANDSCAPE ARCHITECT:	M/FPF 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271		
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879		
CONSULTANT:			
CONSULTANT:			
DOB DESIGN:			
DOB STAMPS & SIGNATURES:			
LONG TITLE:	<b>22ND-25TH FLOORS ENLARGED PLAN</b>		
SCALE & SIGNATURE:	DATE:	08/01/2015	
	PROJECT #:	15015	
	SCALE:	1/4" = 1'-0"	
			<b>A-166.00</b>

**1 22ND-25TH FLOOR ENLARGED PLAN**  
1/4" = 1'-0"





- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - ☉ SMOKE/CARBON MONOXIDE DETECTOR
  - ☉ WALL MOUNTED EXIT SIGN & LIGHT
  - ☉ CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number: 09/01/2015 Date: 09/01/2015  
 OWNER: THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT: SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
**GHW**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

M/E/P ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB REVIEW:

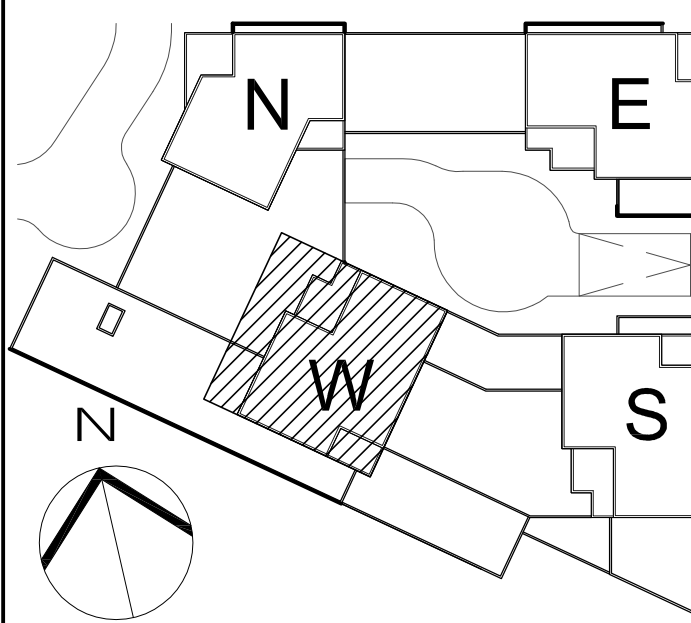
DOB STAMPS & SIGNATURES:

DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"  
**A-167.00**

DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"  
**A-167.00**  
 CAD FILE: 2115408 101 Lincoln Ave\_S88p SHEET 86 OF 130

1 MAIN ROOF ENLARGED PLAN  
 1/4" = 1'-0"





**KEY PLAN**

- LEGEND:
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - SMOKE/CARBON MONOXIDE DETECTOR
  - WALL MOUNTED EXIT SIGN & LIGHT
  - CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number: 09/01/2015 Date: 09/01/2015

OWNER:  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE  
 CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

M/E/P ENGINEER:  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

PROFESSIONAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB REVIEW:

DOB STAMPS & SIGNATURES:

DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"  
**A-168.00**

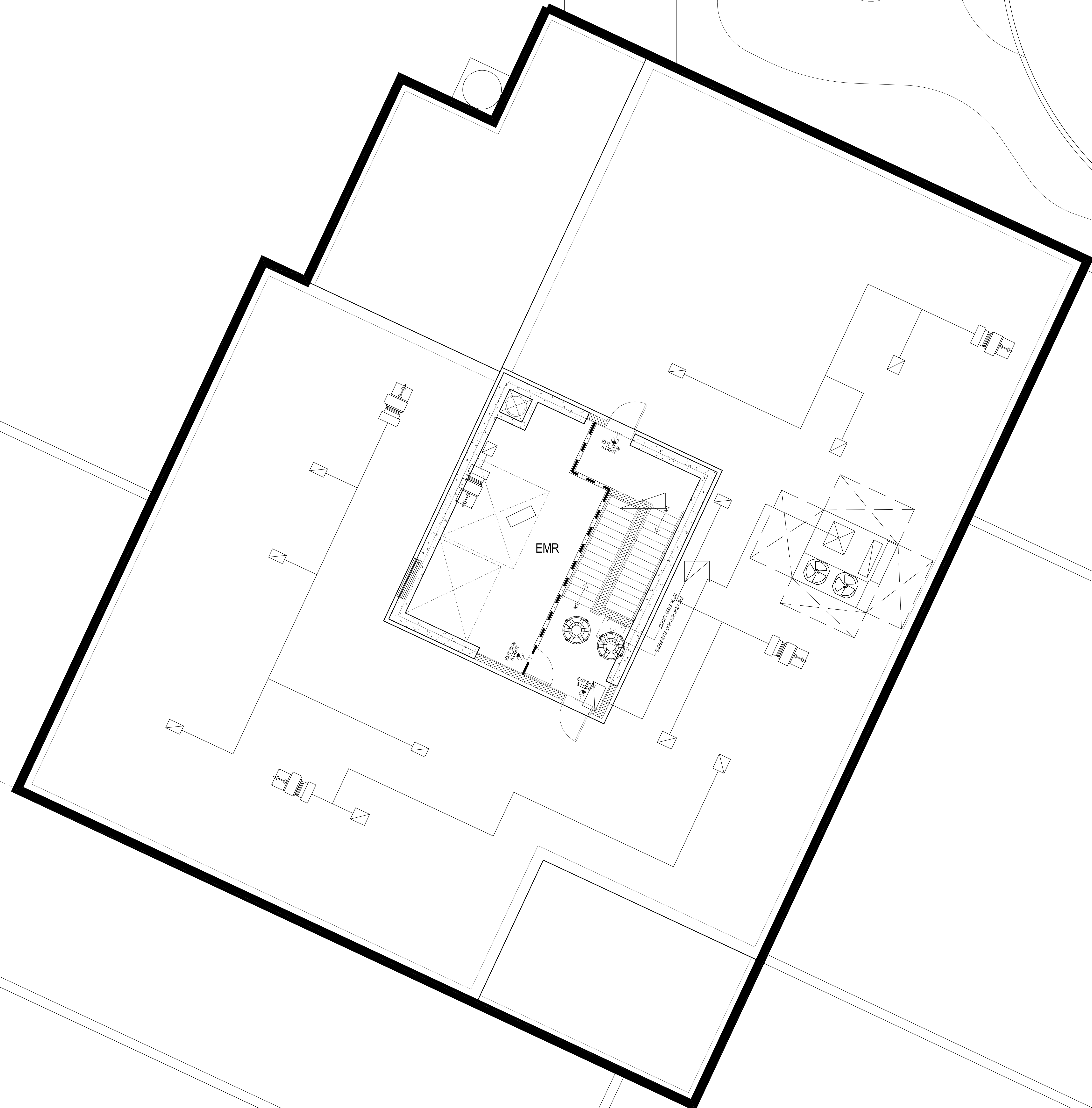
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 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"

DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"

DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"

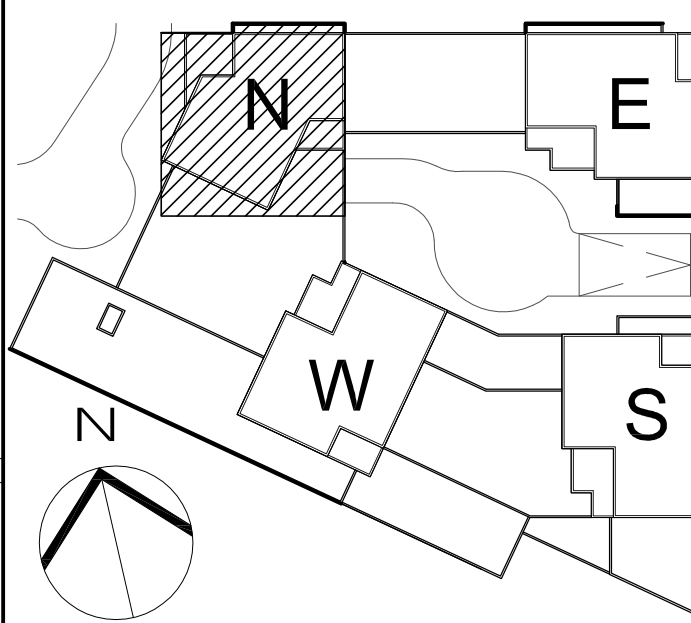
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DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/4" = 1'-0"



**1 MAIN ROOF ENLARGED PLAN**  
 1/4" = 1'-0"





**KEY PLAN**

- LEGEND:**
- 1-HOUR RATED WALL
  - 2-HOUR RATED WALL
  - 3-HOUR RATED WALL
  - TRAVEL DISTANCE
  - ☉ SMOKE/CARBON MONOXIDE DETECTOR
  - ☉ WALL MOUNTED EXIT SIGN & LIGHT
  - ☉ CEILING MOUNTED EXIT SIGN & LIGHT

**NOT FOR CONSTRUCTION**

Number: 09/01/2015 Date: 09/01/2015

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoPro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**ARCHITECT:**  
**GHW**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE  
 CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**M/E/P ENGINEER:**  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**PROFESSIONAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**DOB REVIEW:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

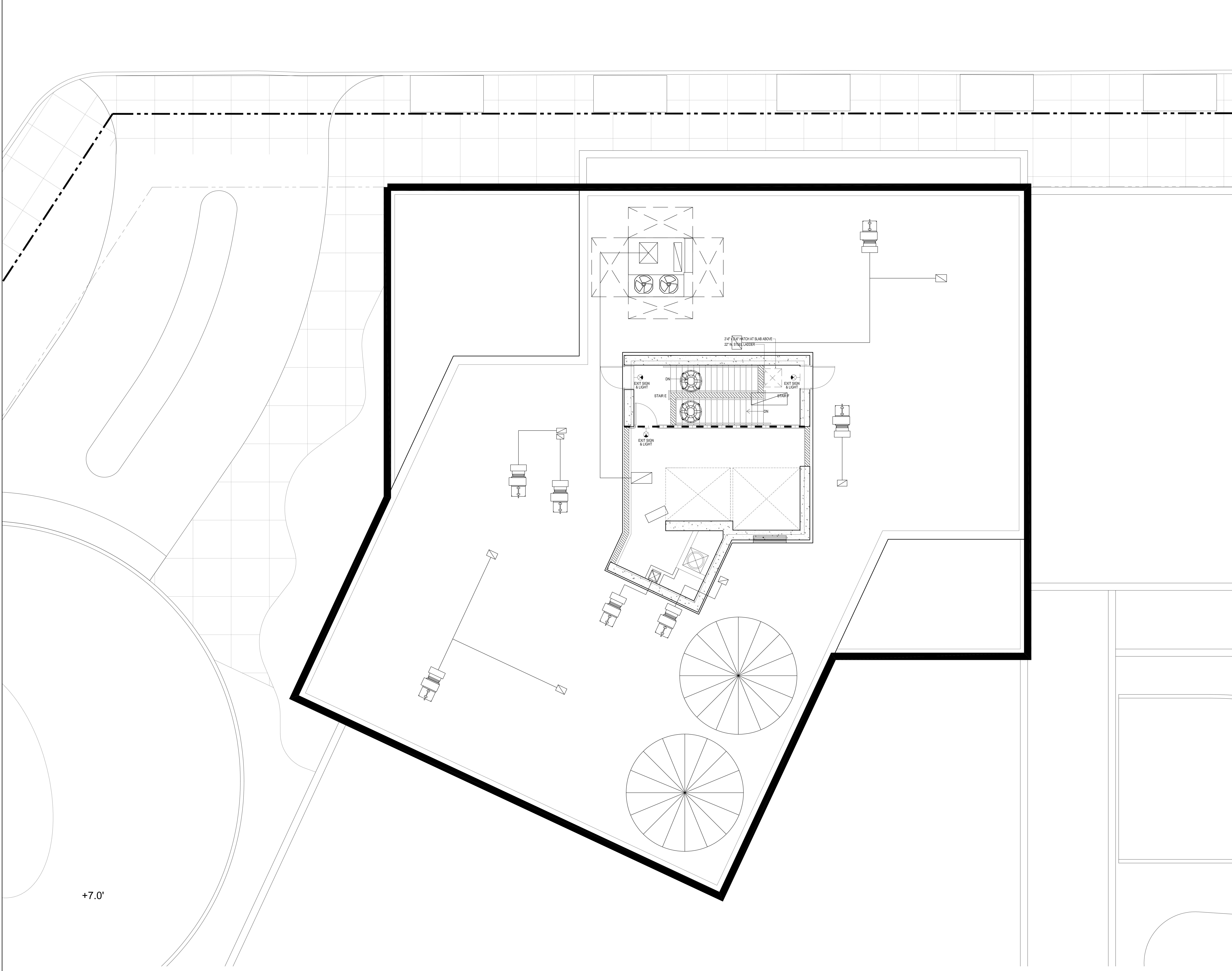
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**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

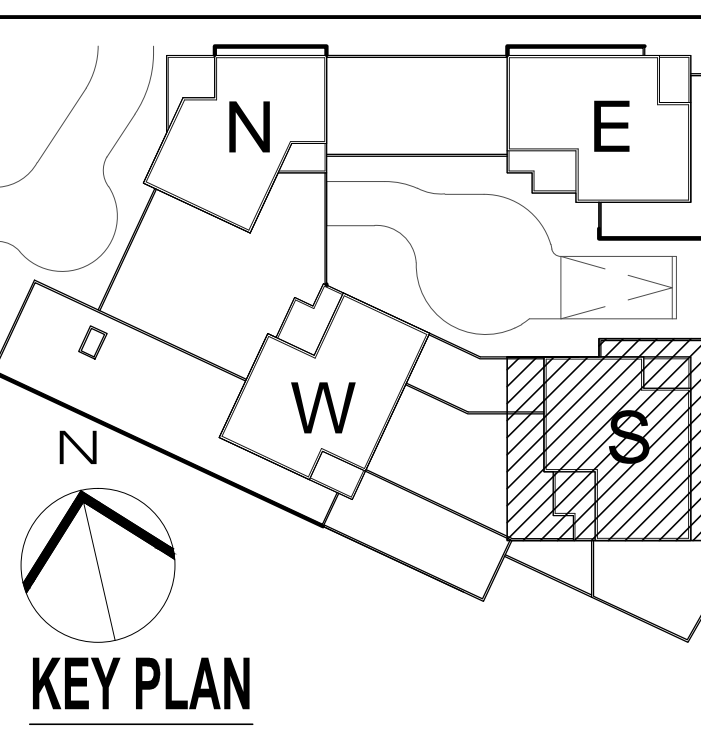
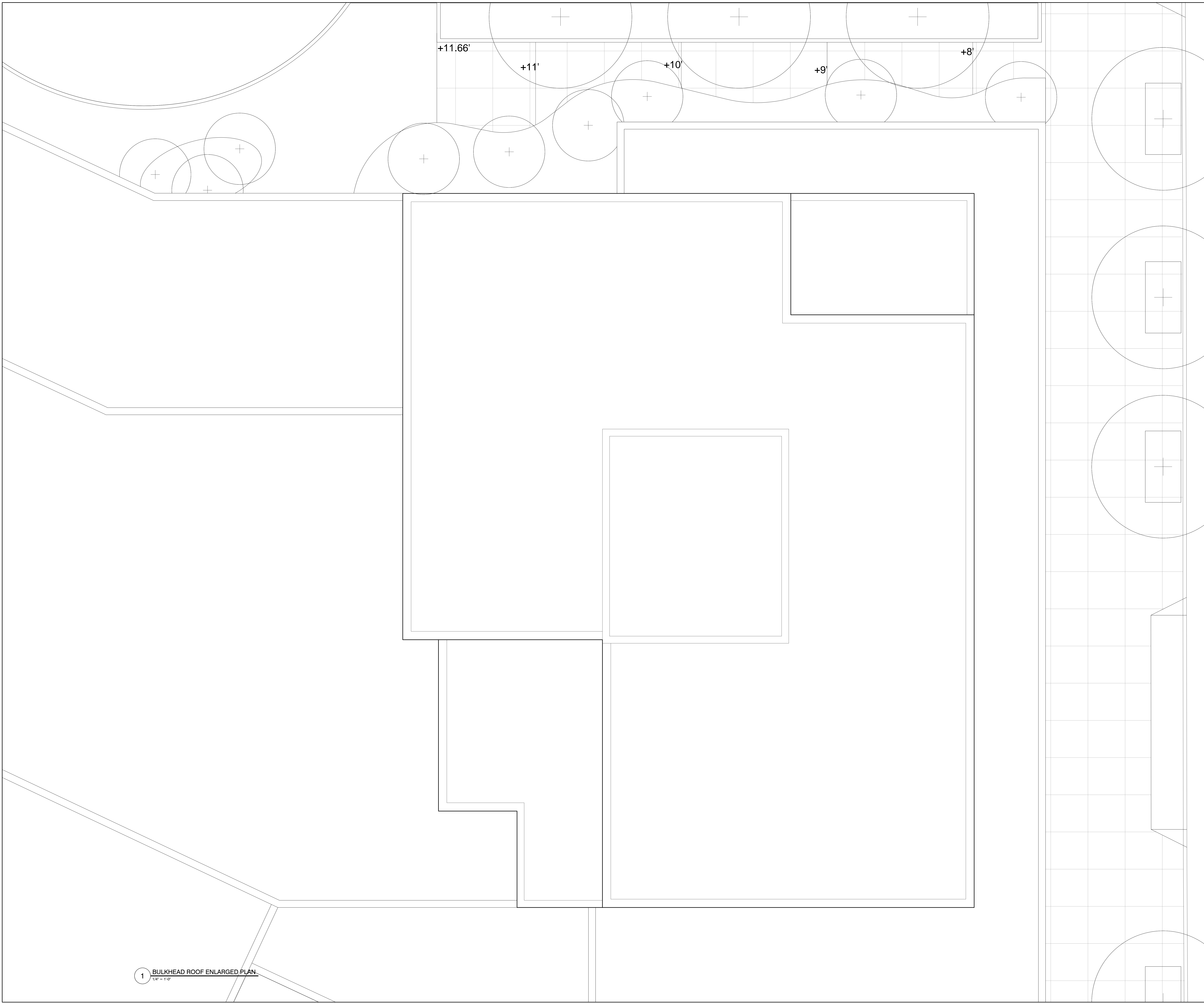
**DOB STAMPS & SIGNATURES:**



+7.0'

**1 BULKHEAD ROOF ENLARGED PLAN**  
 1/4" = 1'-0"

DATE:	09/01/2015
PROJECT #:	15408
SCALE:	1/4" = 1'-0"
DWG NO.:	<b>A-167.00</b>
CAD FILE:	2115408 101 Lincoln Ave_S88a
SHEET NO.:	88 OF 130



**NOT FOR CONSTRUCTION**

Number:	08/01/2015	003 SUBMISSION
Date:		
Revision:		

**OWNER:**  
 THE CHETREIT GROUP LLC  
 512 7TH AVENUE, 15TH FL.  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL.  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE  
 CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEPP ENGINEER:**  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CME ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MFPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**CONSULTANT:**

**DOB DESIGN:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

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**DOB STAMPS & SIGNATURES:**

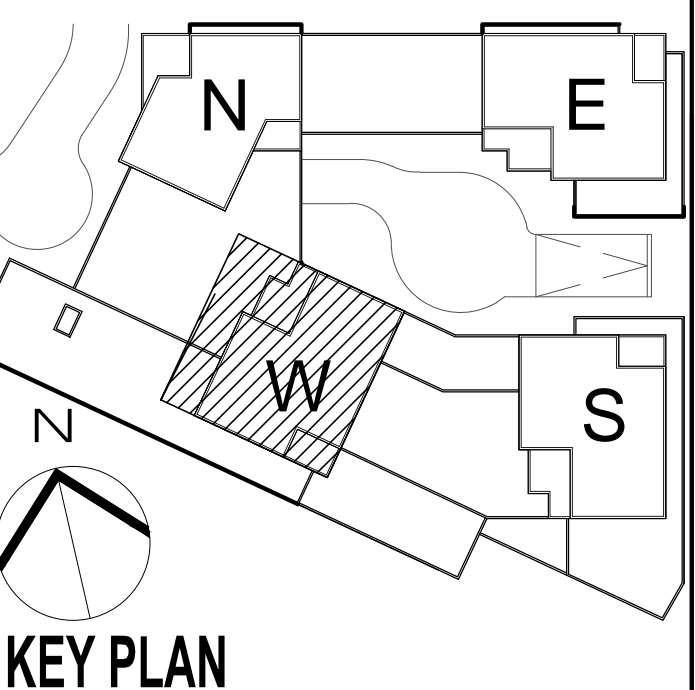
**DOB STAMPS & SIGNATURES:**

**DOB STAMPS & SIGNATURES:**

**1 BULKHEAD ROOF ENLARGED PLAN**  
 1/4" = 1'-0"

<b>DATE:</b>	08/01/2015
<b>PROJECT #:</b>	15405
<b>SCALE:</b>	1/4" = 1'-0"
<b>DWG NO.:</b>	A-170.00
<b>CAD FILE:</b>	2115405 101 Lincoln Av_S68r
<b>SHEET NO.:</b>	07 130





KEY PLAN

NOT FOR CONSTRUCTION

Number	Date	Revision
08/01/2015	08/01/2015	003 SUBMISSION

OWNER:  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL.  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL.  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE  
 CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEPP ENGINEER:  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CME ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MFPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB RESAN

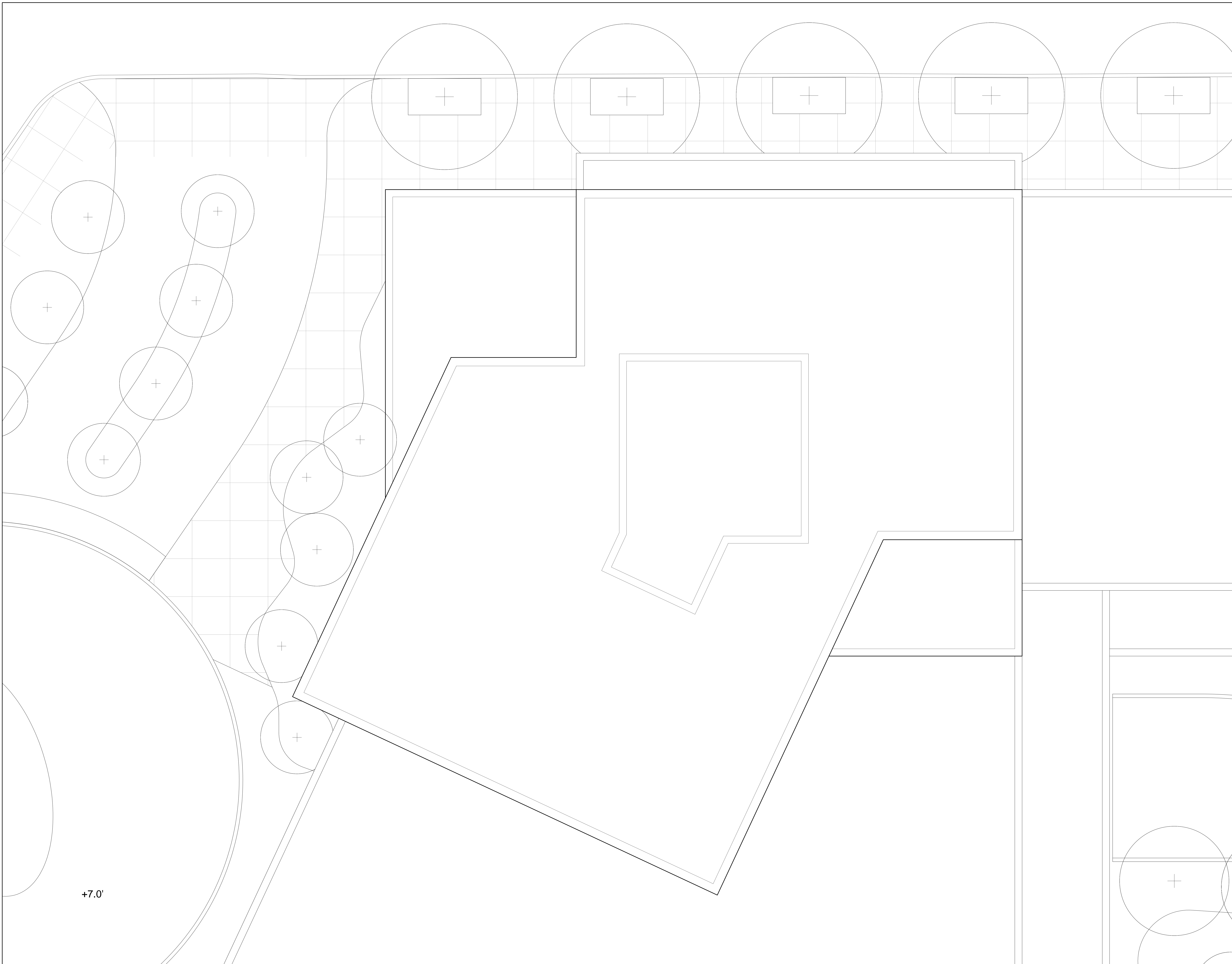
DOB STAMPS & SIGNATURES:

LONG TITLE:  
**BULKHEAD ROOF  
 ENLARGED PLAN**

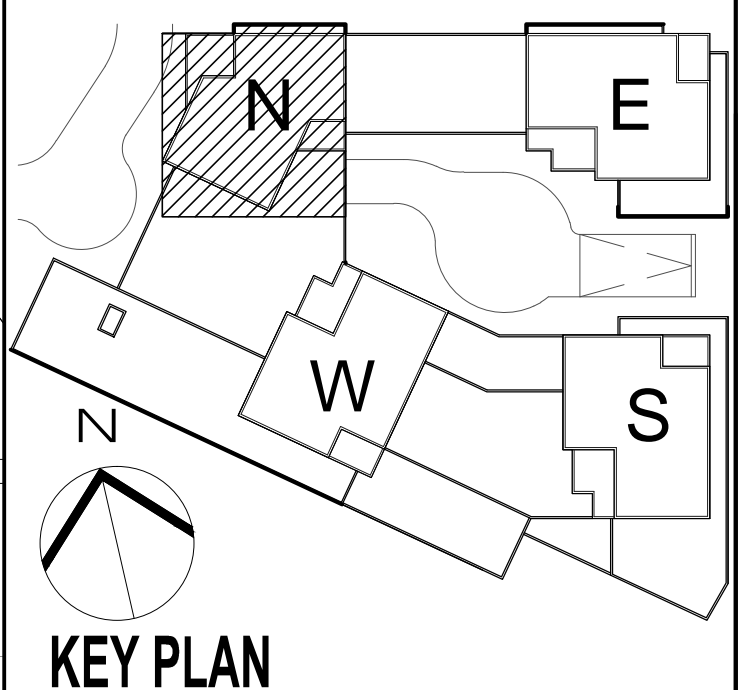
SEAL & SIGNATURE	DATE: 08/01/2015
PROJECT #:	15405
SCALE:	1/4" = 1'-0"
<b>A-171.00</b>	
CAD FILE: 2115405 101 Lincoln Av_S68r	SHEET 90 OF 130

1 BULKHEAD ROOF ENLARGED PLAN  
 1/4" = 1'-0"





+7.0'



NOT FOR CONSTRUCTION

Number:	08/01/2015	003 SUBMISSION
Date:		
Revision:		

OWNER:  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL.  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL.  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

EXECUTIVE ARCHITECT:  
**GHWA**  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER:  
 DESIMONE  
 CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEPP ENGINEER:  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CME ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 M/PFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

GEOTECHNICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

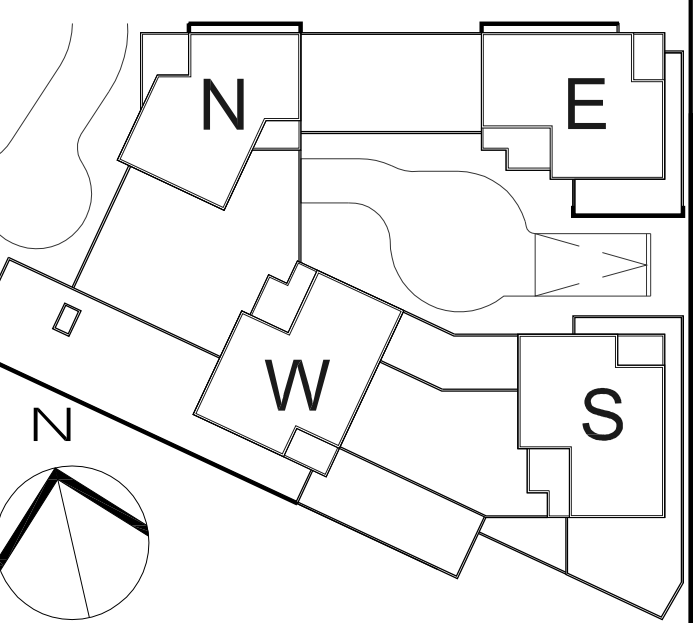
EXIB DESIGN:

EXIB STAMPS & SIGNATURES:

LONG TITLE:  
**BULKHEAD ROOF ENLARGED PLAN**

**1 BULKHEAD ROOF ENLARGED PLAN**  
 1/4" = 1'-0"

SEAL & SIGNATURE	DATE: 08/01/2015
PROJECT #:	15408
SCALE:	1/4" = 1'-0"
DWG. NO.:	<b>A-172.00</b>
CAD FILE: 2115408 101 Lincoln Av_S68r	SHEET 91 OF 130



**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SURVEY/2015
Date:		
Revision:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**ME/PFP ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**BOB BOGAN:**

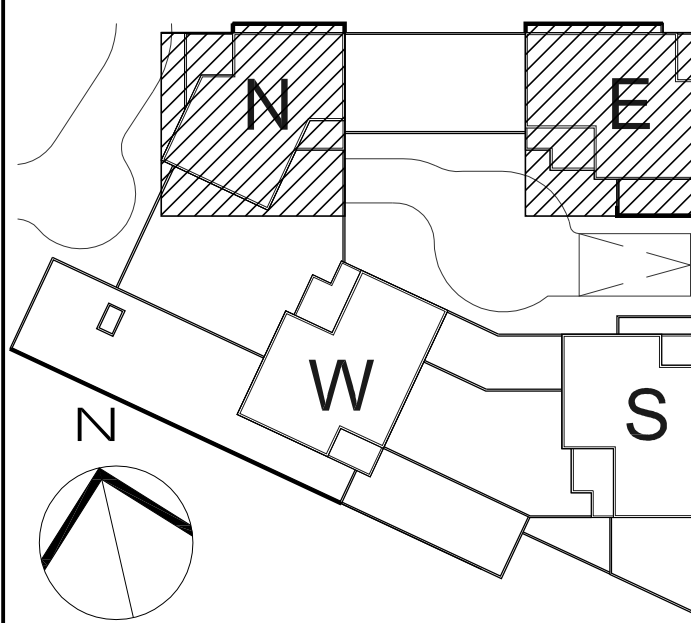
**BOB STAMPS & SIGNATURES:**

**DATE:** 09/01/2015

**BUILDING ELEVATIONS - KEY PLAN**

SEAL & SIGNATURE:	DATE:	09/01/2015
	PROJECT #:	15408
	SCALE:	1/16" = 1'-0"
	DWG NO.:	<b>A-300.00</b>



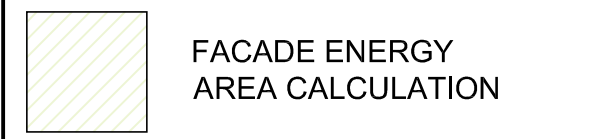


**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

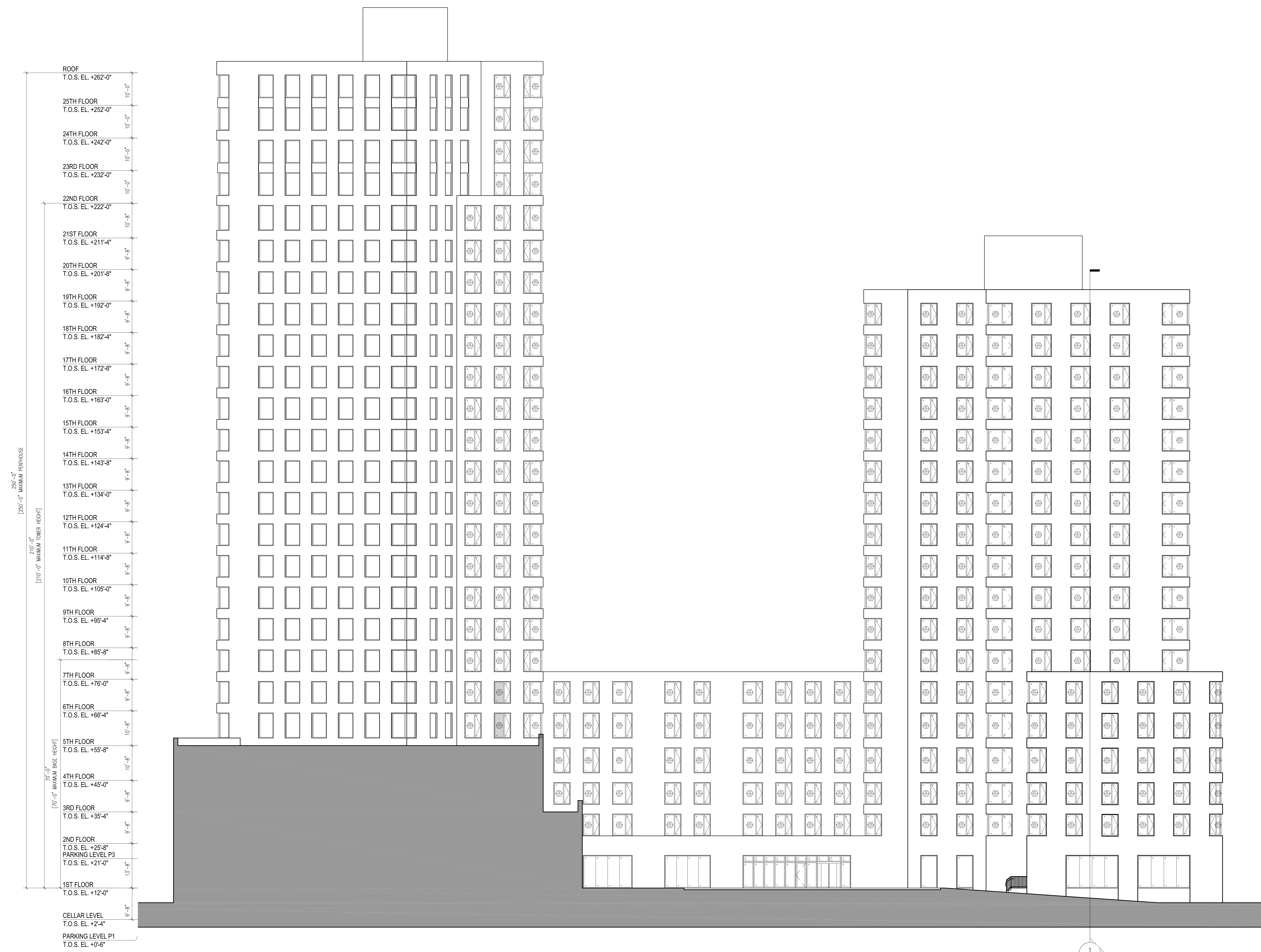
ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**



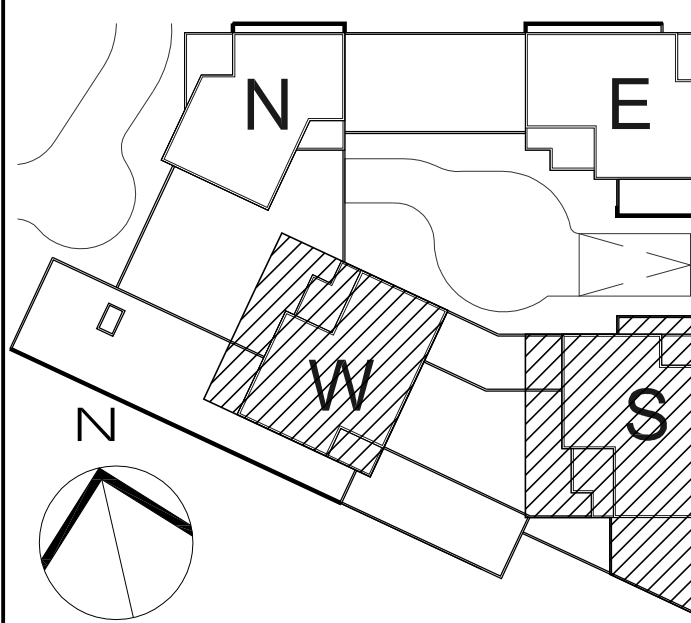
**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SURVEY
Date:		
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
PRELIM ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEP/PFP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	MPFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
BOB BOARD:		
BOB STAMPS & SIGNATURES:		
DWG TITLE:	<b>BUILDING ELEVATIONS - OVERALL SOUTH</b>	
SCALE & SIGNATURE:	DATE: 09/01/2015	PROJECT #: 15008
	SCALE: 1/8" = 1'-0"	<b>A-301.00</b>
CAD FILE: 2115400 101 Lincoln Ave_S&B	DWG NO.:	SHEET 93 OF 130



**1 ELEVATION - OVERALL SOUTH**  
3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC9002.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

FACADE CALCULATIONS  
 FACADE: 5,225.31 SQ. FT.  
 30% FACADE SF = 1,567.59 SF  
 OPENINGS: 1,533.35 SQ. FT.

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SURVEY/2015
Date:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**ME/P/E ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**REGISTERED ELECTRICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**BOB BOARD:**

**BOB STAMPS & SIGNATURES:**

**DWG TITLE:**

**BUILDING ELEVATIONS - OVERALL SOUTH WEST**

**DATE:** 09/01/2015  
**PROJECT #:** 15026  
**SCALE:** 1/8" = 1'-0"

**A-302.00**

ROOF  
T.O.S. EL. +262'-0"  
10'-0"

25TH FLOOR  
T.O.S. EL. +252'-0"  
10'-0"

24TH FLOOR  
T.O.S. EL. +242'-0"  
10'-0"

23RD FLOOR  
T.O.S. EL. +232'-0"  
10'-0"

22ND FLOOR  
T.O.S. EL. +222'-0"  
10'-0"

21ST FLOOR  
T.O.S. EL. +211'-4"  
9'-8"

20TH FLOOR  
T.O.S. EL. +201'-8"  
9'-8"

19TH FLOOR  
T.O.S. EL. +192'-0"  
9'-8"

18TH FLOOR  
T.O.S. EL. +182'-4"  
9'-8"

17TH FLOOR  
T.O.S. EL. +172'-8"  
9'-8"

16TH FLOOR  
T.O.S. EL. +163'-0"  
9'-8"

15TH FLOOR  
T.O.S. EL. +153'-4"  
9'-8"

14TH FLOOR  
T.O.S. EL. +143'-8"  
9'-8"

13TH FLOOR  
T.O.S. EL. +134'-0"  
9'-8"

12TH FLOOR  
T.O.S. EL. +124'-4"  
9'-8"

11TH FLOOR  
T.O.S. EL. +114'-8"  
9'-8"

10TH FLOOR  
T.O.S. EL. +105'-0"  
9'-8"

9TH FLOOR  
T.O.S. EL. +95'-4"  
9'-8"

8TH FLOOR  
T.O.S. EL. +85'-8"  
9'-8"

7TH FLOOR  
T.O.S. EL. +76'-0"  
9'-8"

6TH FLOOR  
T.O.S. EL. +66'-4"  
10'-0"

5TH FLOOR  
T.O.S. EL. +55'-8"  
10'-0"

4TH FLOOR  
T.O.S. EL. +45'-0"  
9'-8"

3RD FLOOR  
T.O.S. EL. +35'-4"  
9'-8"

2ND FLOOR  
T.O.S. EL. +25'-8"  
9'-8"

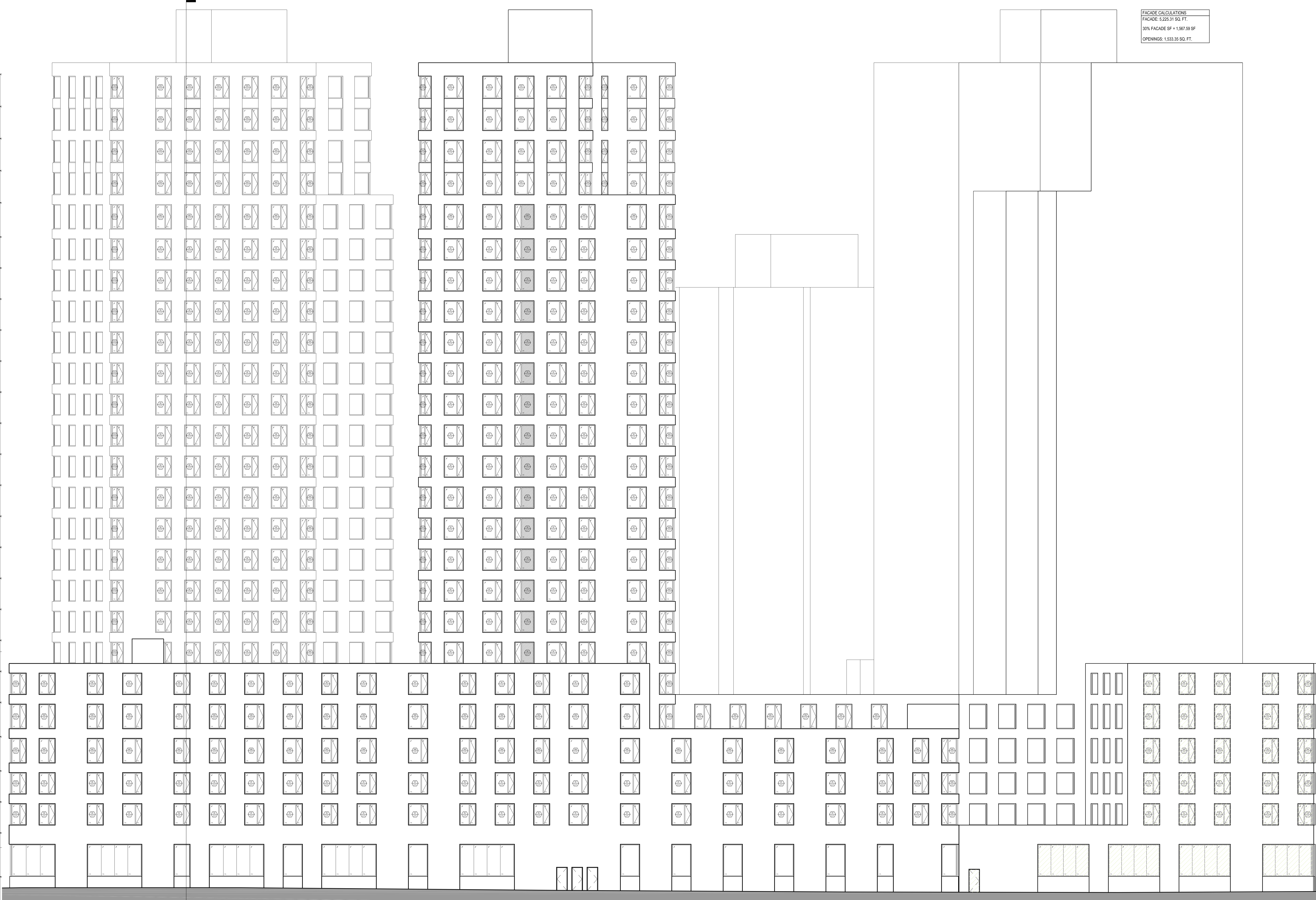
PARKING LEVEL P3  
T.O.S. EL. +21'-0"  
12'-0"

1ST FLOOR  
T.O.S. EL. +12'-0"  
9'-8"

CELLAR LEVEL  
T.O.S. EL. +2'-4"  
9'-8"

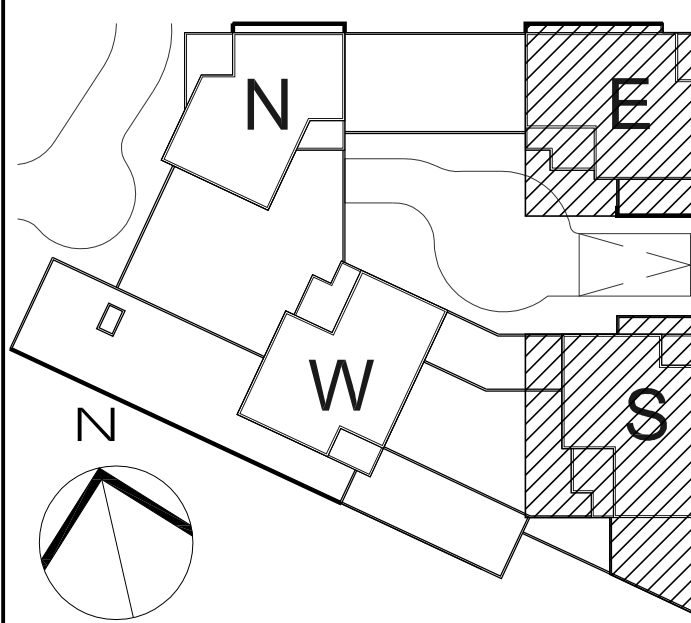
PARKING LEVEL P1  
T.O.S. EL. +0'-6"  
9'-8"

265'-0" MAXIMUM FENDHOUSE  
 132'-0" MAXIMUM TOWER HEIGHT  
 70'-0" MAXIMUM BASE HEIGHT



**1 ELEVATION - OVERALL SOUTH WEST**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SURMISSED
Date:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEP/P ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**BOB BOARD:**

**BOB STAMPS & SIGNATURES:**

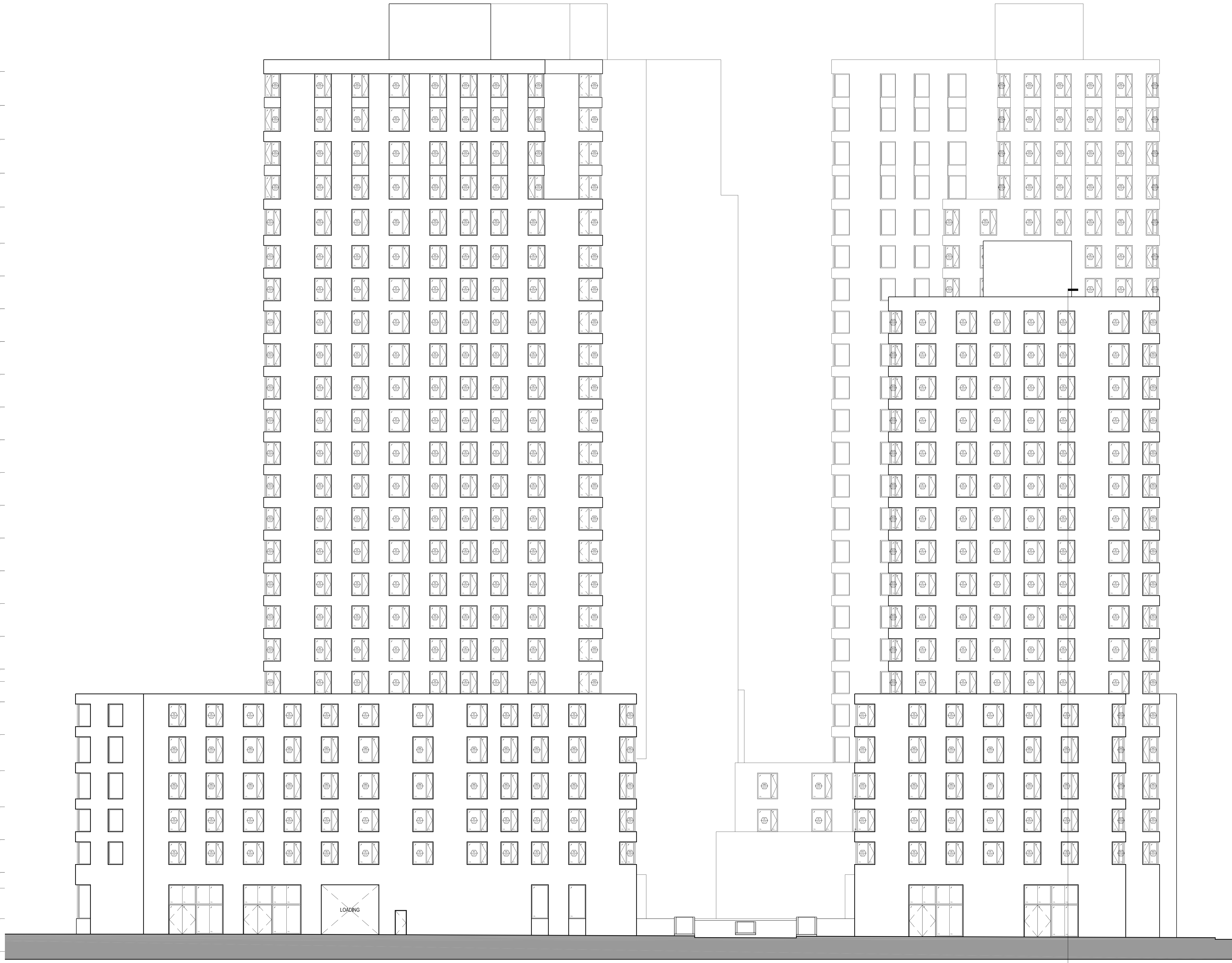
**DWG TITLE:**

**BUILDING ELEVATIONS - OVERALL EAST**

**DATE:** 09/01/2015  
**PROJECT #:** 15008  
**SCALE:** 1/8" = 1'-0"

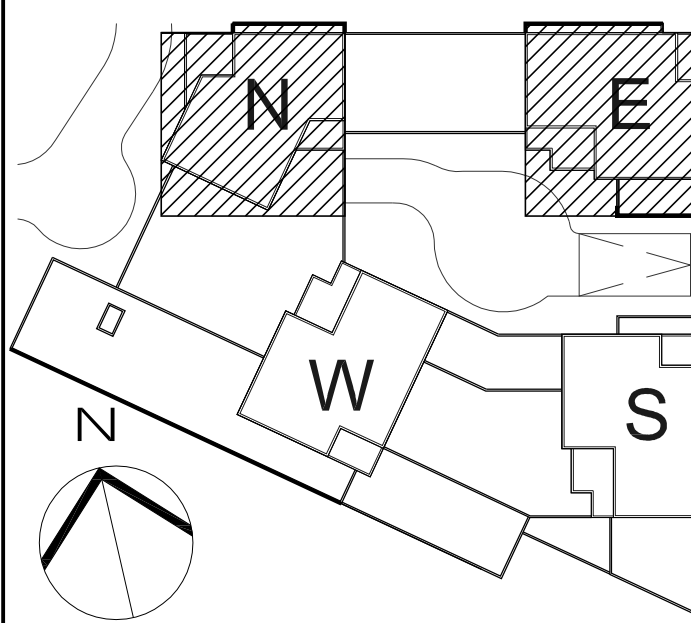
**SEAL & SIGNATURE:**

ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-0"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
16TH FLOOR	T.O.S. EL. +163'-0"	9'-8"
15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
13TH FLOOR	T.O.S. EL. +134'-0"	9'-8"
12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
5TH FLOOR	T.O.S. EL. +55'-8"	10'-8"
4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	9'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	13'-8"
1ST FLOOR	T.O.S. EL. +12'-0"	9'-8"
CELLAR LEVEL	T.O.S. EL. +2'-4"	
PARKING LEVEL P1	T.O.S. EL. 0'-6"	



**1 ELEVATION - OVERALL EAST**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
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 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SURVEYOR
Date:		Revised:

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:** SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEP/FP ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**REGISTERED ELECTRICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**CONSULTANT:**

**BOB BOARD:**

**BOB STAMPS & SIGNATURES:**

**BOB STAMPS & SIGNATURES:**

**BOB STAMPS & SIGNATURES:**

**BOB STAMPS & SIGNATURES:**

**BOB STAMPS & SIGNATURES:**

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**BOB STAMPS & SIGNATURES:**

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**BOB STAMPS & SIGNATURES:**

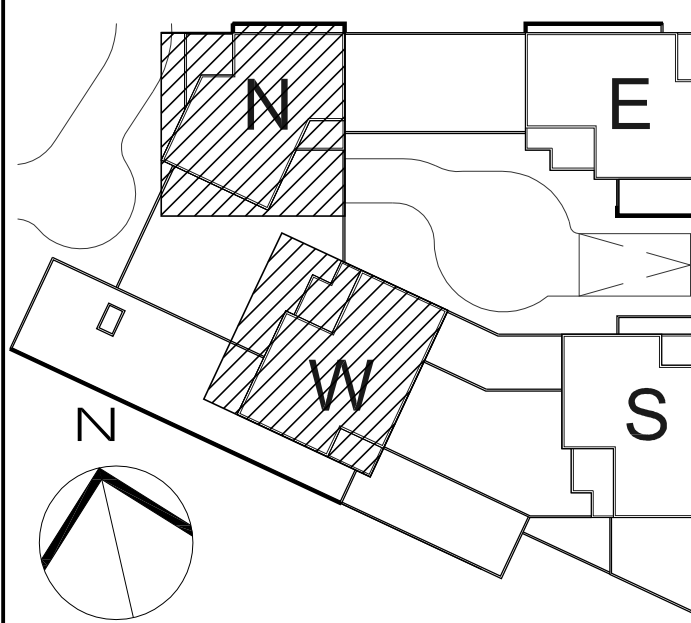
ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-8"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
16TH FLOOR	T.O.S. EL. +163'-0"	9'-8"
15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
13TH FLOOR	T.O.S. EL. +134'-0"	9'-8"
12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
5TH FLOOR	T.O.S. EL. +55'-8"	10'-8"
4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	9'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	12'-8"
1ST FLOOR	T.O.S. EL. +12'-0"	9'-8"
CELLAR LEVEL	T.O.S. EL. +2'-4"	
PARKING LEVEL P1	T.O.S. EL. +0'-6"	



**1 ELEVATION - OVERALL NORTH**  
 3/32" = 1'-0"

<b>DATE:</b> 09/01/2015
<b>PROJECT #:</b> 15408
<b>SCALE:</b> 1/32" = 1'-0"
<b>DWG. NO.:</b> A-304.00
<b>CAD FILE:</b> 2115408 101 Lincoln Ave_S&B
<b>SHEET 06</b> OF 130





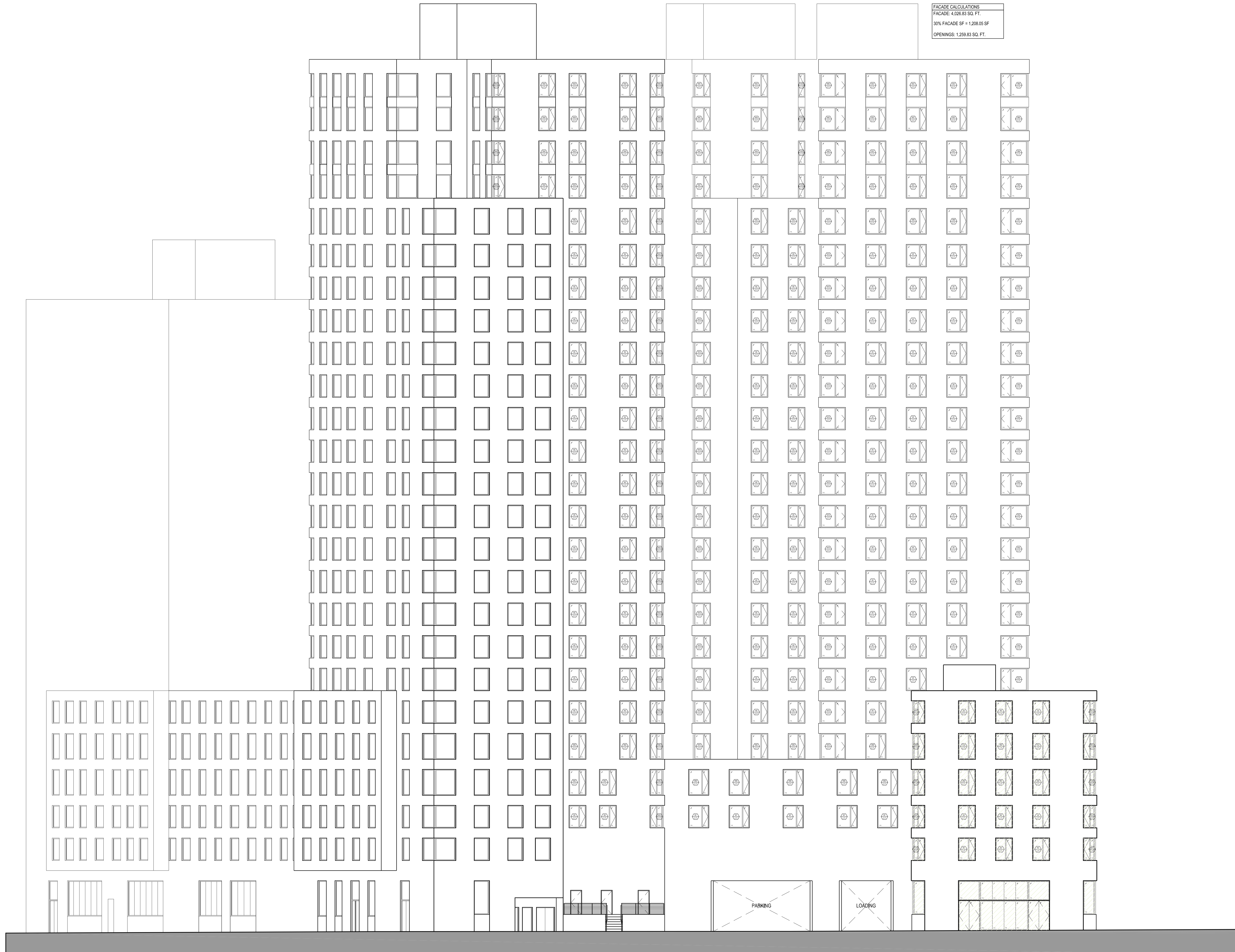
**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**  
 FACADE ENERGY AREA CALCULATION

FACADE CALCULATIONS  
 FACADE: 4,028.83 SQ. FT.  
 30% FACADE SF = 1,208.05 SF  
 OPENINGS: 1,259.83 SQ. FT.

ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-0"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
16TH FLOOR	T.O.S. EL. +163'-0"	9'-8"
15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
13TH FLOOR	T.O.S. EL. +134'-0"	9'-8"
12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
5TH FLOOR	T.O.S. EL. +55'-8"	10'-8"
4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	9'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	12'-8"
1ST FLOOR	T.O.S. EL. +12'-0"	9'-8"
CELLAR LEVEL	T.O.S. EL. +2'-4"	9'-8"
PARKING LEVEL P1	T.O.S. EL. 0'-6"	

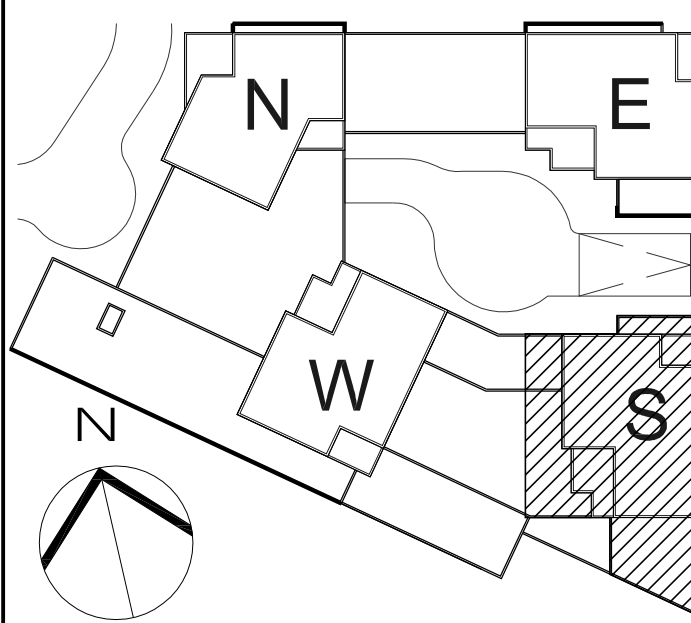


**NOT FOR CONSTRUCTION**

Number:	09/01/2015	009 SUMMS300V
Date:		
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
	SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
EXECUTIVE ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
ME/PFP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	MPFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
DOB BOARD:		
DOB STAMPS & SIGNATURES:		
DWG TITLE:	<b>BUILDING ELEVATIONS - OVERALL NORTH WEST</b>	
SCALE & SIGNATURE:	DATE: 09/01/2015	PROJECT #: 15008
	SCALE: 1/8" = 1'-0"	<b>A-305.00</b>
CAD FILE: 2115408 101 Lincoln Ave_S&B.dwg	DWG NO.:	SHEET 97 OF 130

**1 ELEVATION - OVERALL NORTH WEST**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC302.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**  
 FACADE ENERGY AREA CALCULATION

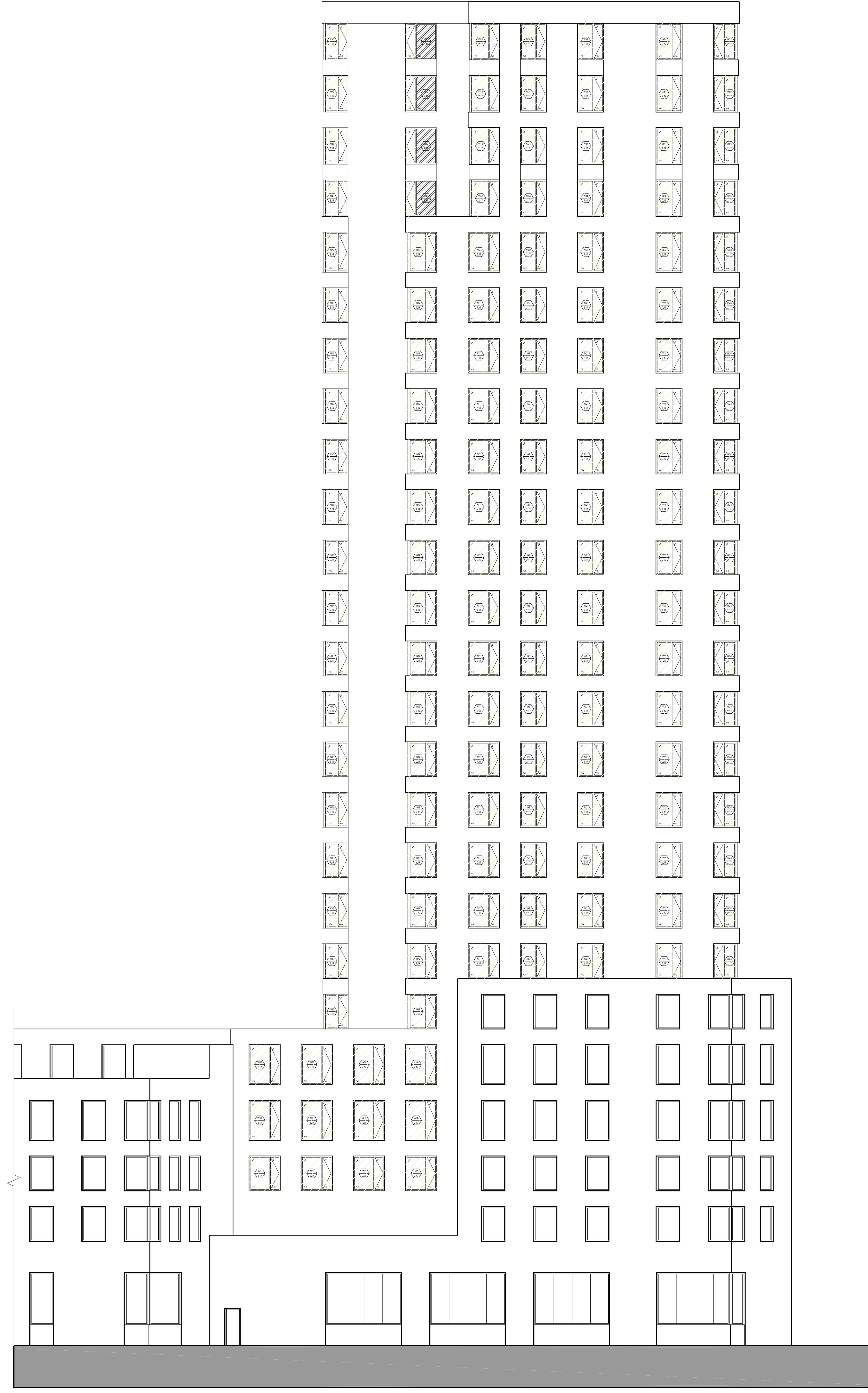
**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SURVEY/2015
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
EXECUTIVE ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEP/P ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	MPFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
DOB BOARD:		
DOB STAMPS & SIGNATURES:		
DWG TITLE:	<b>BUILDING ELEVATIONS - SOUTH TOWER</b>	
DATE:	09/01/2015	
PROJECT #:	15008	
SCALE:	1/32" = 1'-0"	
DATE:	09/01/2015	
PROJECT #:	15008	
SCALE:	1/32" = 1'-0"	
DWG TITLE:	<b>A-306.00</b>	
CAD FILE:	2115408 101 Lincoln Ave_S88a	
SHEET 088	OF	130

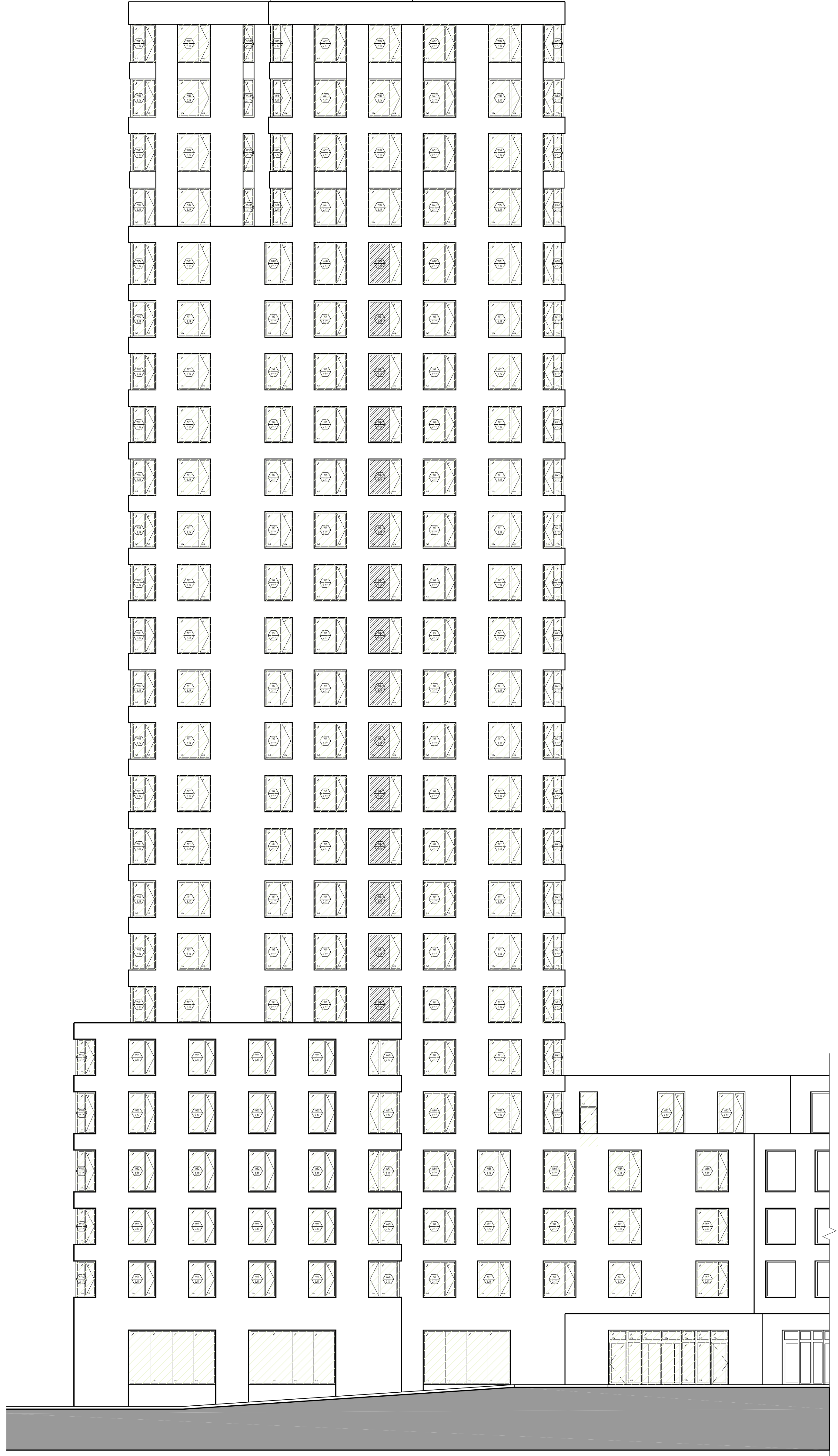
FACADE CALCULATIONS  
 FACADE: 17,833.16 SQ. FT.  
 30% FACADE SF = 5,289.95 SF  
 OPENINGS: 5,132.40 SQ. FT.

FACADE CALCULATIONS  
 FACADE: 23,646.14 SQ. FT.  
 30% FACADE SF = 7,093.82 SF  
 OPENINGS: 7,927.62 SQ. FT.

- ROOF  
T.O.S. EL. +262'-0"
- 25TH FLOOR  
T.O.S. EL. +252'-0"
- 24TH FLOOR  
T.O.S. EL. +242'-0"
- 23RD FLOOR  
T.O.S. EL. +232'-0"
- 22ND FLOOR  
T.O.S. EL. +222'-0"
- 21ST FLOOR  
T.O.S. EL. +211'-4"
- 20TH FLOOR  
T.O.S. EL. +201'-8"
- 19TH FLOOR  
T.O.S. EL. +192'-0"
- 18TH FLOOR  
T.O.S. EL. +182'-4"
- 17TH FLOOR  
T.O.S. EL. +172'-8"
- 16TH FLOOR  
T.O.S. EL. +163'-0"
- 15TH FLOOR  
T.O.S. EL. +153'-4"
- 14TH FLOOR  
T.O.S. EL. +143'-8"
- 13TH FLOOR  
T.O.S. EL. +134'-0"
- 12TH FLOOR  
T.O.S. EL. +124'-4"
- 11TH FLOOR  
T.O.S. EL. +114'-8"
- 10TH FLOOR  
T.O.S. EL. +105'-0"
- 9TH FLOOR  
T.O.S. EL. +95'-4"
- 8TH FLOOR  
T.O.S. EL. +85'-8"
- 7TH FLOOR  
T.O.S. EL. +76'-0"
- 6TH FLOOR  
T.O.S. EL. +66'-4"
- 5TH FLOOR  
T.O.S. EL. +55'-8"
- 4TH FLOOR  
T.O.S. EL. +45'-0"
- 3RD FLOOR  
T.O.S. EL. +35'-4"
- 2ND FLOOR  
T.O.S. EL. +25'-8"  
PARKING LEVEL P3  
T.O.S. EL. +21'-0"
- 1ST FLOOR  
T.O.S. EL. +12'-0"
- CELLAR LEVEL  
T.O.S. EL. +2'-4"  
PARKING LEVEL P1  
T.O.S. EL. +0'-6"

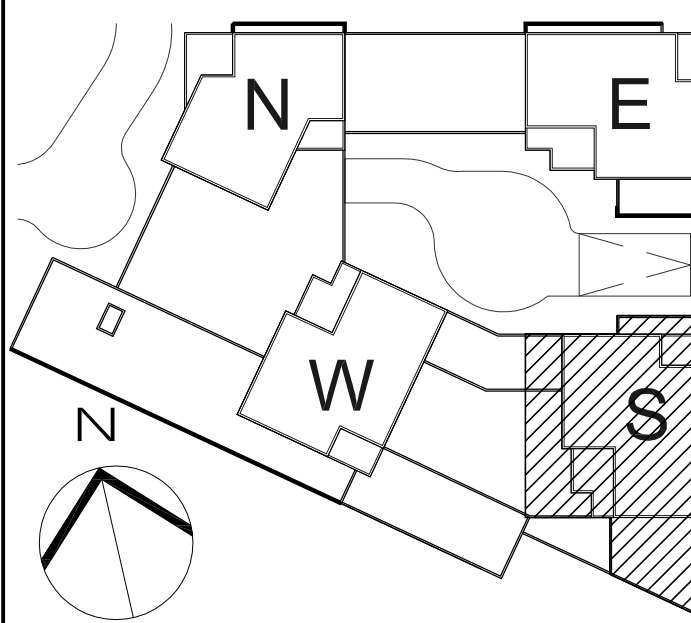


**1 ELEVATION - SOUTH**  
 3/32" = 1'-0"



**2 ELEVATION - NORTH**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC302.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1

ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SURVEY
Date:		
Version:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018

**SOMERSET PARTNERS LLC**  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MPPFP ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**DOB BOARD:**

**DOB STAMPS & SIGNATURES:**

**DWG TITLE:**  
 BUILDING ELEVATIONS - SOUTH TOWER

**DATE:** 09/01/2015  
**PROJECT #:** 15408

**SCALE:** 1/8" = 1'-0"  
**A-307.00**

**CAD FILE:** 2115408 101 Lincoln Ave\_S88a  
**SHEET 99 OF 130**

**FACADE CALCULATIONS**  
 FACADE: 22,723.59 SQ. FT.  
 30% FACADE SF = 6,817.07 SF  
 OPENINGS: 7,363.50 SQ. FT.

**FACADE CALCULATIONS**  
 FACADE: 28,547.96 SQ. FT.  
 30% FACADE SF = 8,564.39 SF  
 OPENINGS: 8,951.46 SQ. FT.

ROOF  
 T.O.S. EL. +262'-0"  
 10'-0"

25TH FLOOR  
 T.O.S. EL. +252'-0"  
 10'-0"

24TH FLOOR  
 T.O.S. EL. +242'-0"  
 10'-0"

23RD FLOOR  
 T.O.S. EL. +232'-0"  
 10'-0"

22ND FLOOR  
 T.O.S. EL. +222'-0"  
 10'-0"

21ST FLOOR  
 T.O.S. EL. +211'-4"  
 9'-8"

20TH FLOOR  
 T.O.S. EL. +201'-8"  
 9'-8"

19TH FLOOR  
 T.O.S. EL. +192'-0"  
 9'-8"

18TH FLOOR  
 T.O.S. EL. +182'-4"  
 9'-8"

17TH FLOOR  
 T.O.S. EL. +172'-8"  
 9'-8"

16TH FLOOR  
 T.O.S. EL. +163'-0"  
 9'-8"

15TH FLOOR  
 T.O.S. EL. +153'-4"  
 9'-8"

14TH FLOOR  
 T.O.S. EL. +143'-8"  
 9'-8"

13TH FLOOR  
 T.O.S. EL. +134'-0"  
 9'-8"

12TH FLOOR  
 T.O.S. EL. +124'-4"  
 9'-8"

11TH FLOOR  
 T.O.S. EL. +114'-8"  
 9'-8"

10TH FLOOR  
 T.O.S. EL. +105'-0"  
 9'-8"

9TH FLOOR  
 T.O.S. EL. +95'-4"  
 9'-8"

8TH FLOOR  
 T.O.S. EL. +85'-8"  
 9'-8"

7TH FLOOR  
 T.O.S. EL. +76'-0"  
 9'-8"

6TH FLOOR  
 T.O.S. EL. +66'-4"  
 10'-8"

5TH FLOOR  
 T.O.S. EL. +55'-8"  
 10'-8"

4TH FLOOR  
 T.O.S. EL. +45'-0"  
 9'-8"

3RD FLOOR  
 T.O.S. EL. +35'-4"  
 9'-8"

2ND FLOOR  
 T.O.S. EL. +25'-8"  
 13'-8"

PARKING LEVEL P3  
 T.O.S. EL. +21'-0"

1ST FLOOR  
 T.O.S. EL. +12'-0"  
 9'-8"

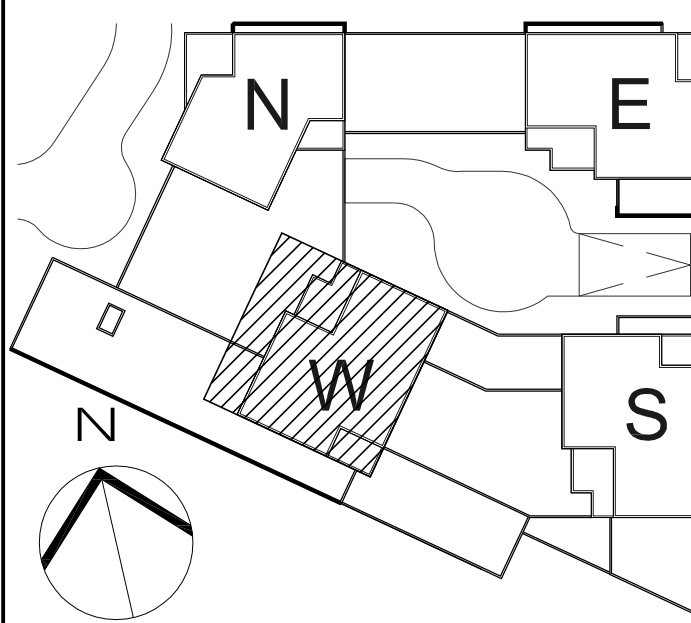
CELLAR LEVEL  
 T.O.S. EL. +2'-4"

PARKING LEVEL P1  
 T.O.S. EL. +0'-6"

**1 ELEVATION - WEST**  
 3/32" = 1'-0"

**2 ELEVATION - EAST**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC9002.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**FACADE CALCULATIONS**  
 FACADE: 35,463.54 SQ. FT.  
 30% FACADE SF = 10,639.06 SF  
 OPENINGS: 10,916.47 SQ. FT.

ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-0"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
16TH FLOOR	T.O.S. EL. +163'-0"	9'-8"
15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
13TH FLOOR	T.O.S. EL. +134'-0"	9'-8"
12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
5TH FLOOR	T.O.S. EL. +55'-8"	10'-8"
4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	9'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	13'-8"
1ST FLOOR	T.O.S. EL. +12'-0"	9'-8"
CELLAR LEVEL	T.O.S. EL. +2'-4"	
PARKING LEVEL P1	T.O.S. EL. 0'-6"	

250'-0" MAXIMUM PENETRANCE  
 [250'-0" MAXIMUM PENETRANCE]  
 210'-0" MAXIMUM CORNER HEIGHT  
 [210'-0" MAXIMUM CORNER HEIGHT]  
 30'-0" MAXIMUM BASE HEIGHT  
 [30'-0" MAXIMUM BASE HEIGHT]



**NOT FOR CONSTRUCTION**

Number:	09012015	FOR SUBMISSION
Date:		
Revision:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:** SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE  
 CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**ME/PFP ENGINEER:**  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**REGISTERED ELECTRICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**BOB BOARD:**

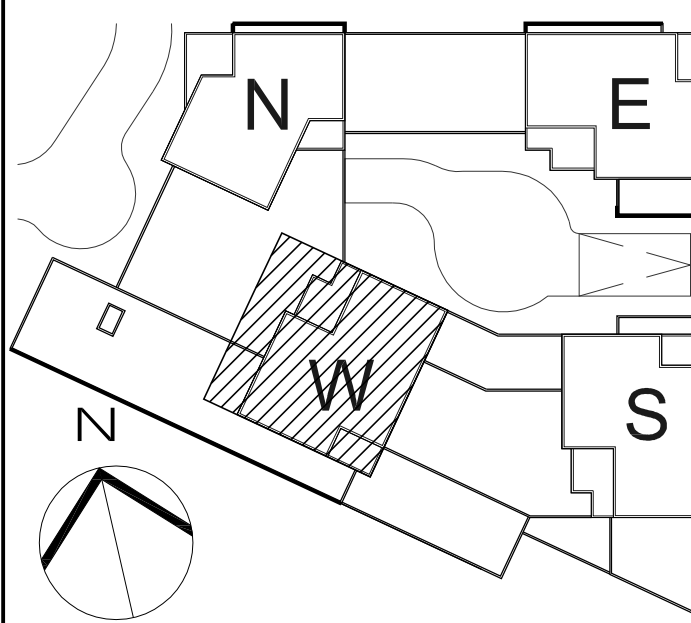
**BOB STAMPS & SIGNATURES:**

**DWG TITLE:**  
 BUILDING ELEVATIONS - WEST TOWER

<b>SEAL &amp; SIGNATURE:</b>	<b>DATE:</b> 09/01/2015
	<b>PROJECT #:</b> 15008
	<b>SCALE:</b> 1/8" = 1'-0"
	<b>DWG NO.:</b>
	<b>SHEET 100 OF 130</b>

**1 ELEVATION - SOUTH WEST**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC9002.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SUMMERSDAY
Date:		
Version:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEP/P ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**REGISTERED ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**BOB BOGAN:**

**BOB STAMPS & SIGNATURES:**

**OWNER TITLE:**

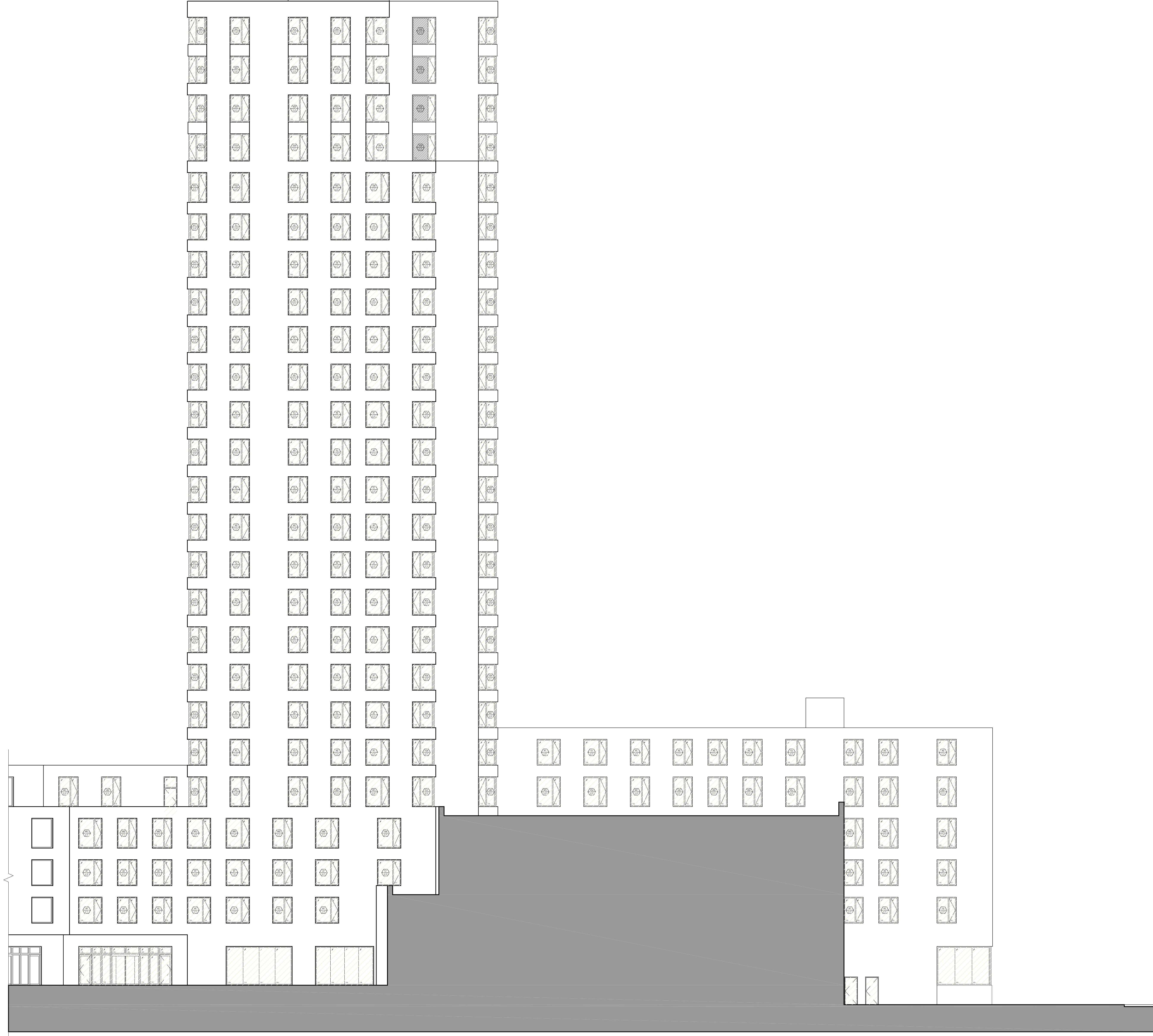
**BUILDING ELEVATIONS - WEST TOWER**

**SCALE & SIGNATURE:** DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 1/8" = 1'-0"

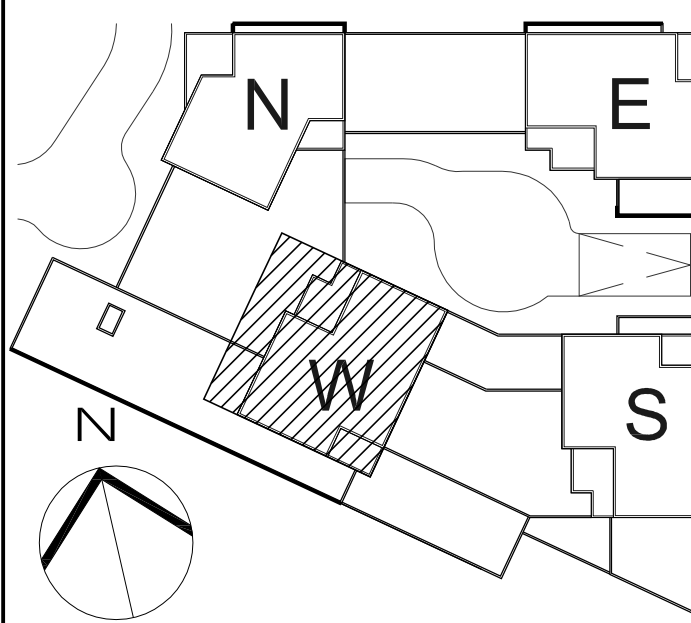
**A-309.00**

**FACADE CALCULATIONS**  
 FACADE: 26,308.60 SQ. FT.  
 30% FACADE SF = 7,892.58 SF  
 OPENINGS: 7,873.33 SQ. FT.

ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-0"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
16TH FLOOR	T.O.S. EL. +163'-0"	9'-8"
15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
13TH FLOOR	T.O.S. EL. +134'-0"	9'-8"
12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
5TH FLOOR	T.O.S. EL. +55'-8"	10'-8"
4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	9'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	12'-8"
1ST FLOOR	T.O.S. EL. +12'-0"	9'-8"
CELLAR LEVEL	T.O.S. EL. +2'-4"	
PARKING LEVEL P1	T.O.S. EL. +0'-6"	







**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1

ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SUBMISSION
Date:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018

SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**REQUIRED ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**M/E/P/F ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**REGISTERED ELECTRICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**DOB BOARD:**

**DOB STAMPS & SIGNATURES:**

**DWG TITLE:**

**BUILDING ELEVATIONS - WEST TOWER**

**SCALE & SIGNATURE:**

DATE: 09/01/2015  
 PROJECT #: 15008  
 SCALE: 1/32" = 1'-0"  
**A-310.00**  
 DWG NO.:  
 CAD FILE: 2115400 101 Lincoln Ave\_S&B.dwg SHEET 102 OF 130

**FACADE CALCULATIONS**  
 FACADE: 20,766.67 SQ. FT.  
 30% FACADE SF = 6,230.00 SF  
 OPENINGS: 6,652.28 SQ. FT.

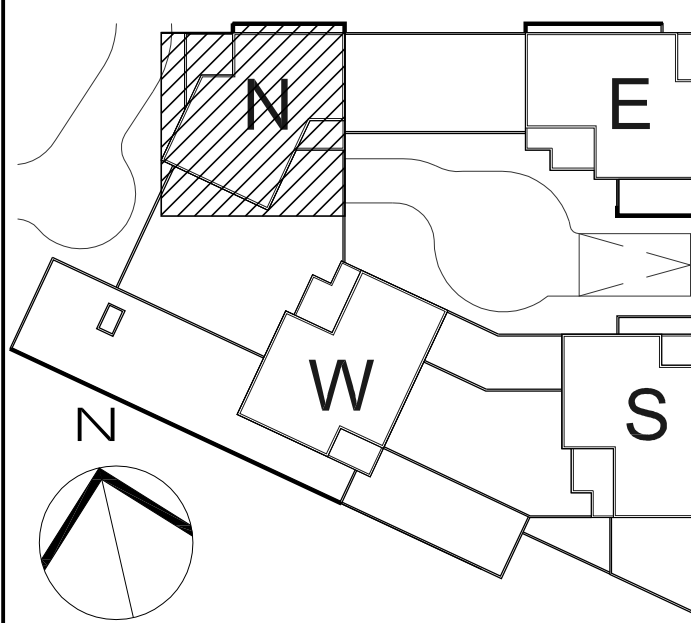
**FACADE CALCULATIONS**  
 FACADE: 20,912.80 SQ. FT.  
 30% FACADE SF = 6,273.84 SF  
 OPENINGS: 6,622.75 SQ. FT.

ROOF  
 T.O.S. EL. +262'-0"  
 25TH FLOOR  
 T.O.S. EL. +252'-0"  
 24TH FLOOR  
 T.O.S. EL. +242'-0"  
 23RD FLOOR  
 T.O.S. EL. +232'-0"  
 22ND FLOOR  
 T.O.S. EL. +222'-0"  
 21ST FLOOR  
 T.O.S. EL. +211'-4"  
 20TH FLOOR  
 T.O.S. EL. +201'-8"  
 19TH FLOOR  
 T.O.S. EL. +192'-0"  
 18TH FLOOR  
 T.O.S. EL. +182'-4"  
 17TH FLOOR  
 T.O.S. EL. +172'-8"  
 16TH FLOOR  
 T.O.S. EL. +163'-0"  
 15TH FLOOR  
 T.O.S. EL. +153'-4"  
 14TH FLOOR  
 T.O.S. EL. +143'-8"  
 13TH FLOOR  
 T.O.S. EL. +134'-0"  
 12TH FLOOR  
 T.O.S. EL. +124'-4"  
 11TH FLOOR  
 T.O.S. EL. +114'-8"  
 10TH FLOOR  
 T.O.S. EL. +105'-0"  
 9TH FLOOR  
 T.O.S. EL. +95'-4"  
 8TH FLOOR  
 T.O.S. EL. +85'-8"  
 7TH FLOOR  
 T.O.S. EL. +76'-0"  
 6TH FLOOR  
 T.O.S. EL. +66'-4"  
 5TH FLOOR  
 T.O.S. EL. +55'-8"  
 4TH FLOOR  
 T.O.S. EL. +45'-0"  
 3RD FLOOR  
 T.O.S. EL. +35'-4"  
 2ND FLOOR  
 T.O.S. EL. +25'-8"  
 PARKING LEVEL P3  
 T.O.S. EL. +21'-0"  
 1ST FLOOR  
 T.O.S. EL. +12'-0"  
 CELLAR LEVEL  
 T.O.S. EL. +2'-4"  
 PARKING LEVEL P1  
 T.O.S. EL. +0'-6"

**1 ELEVATION - NORTH WEST**  
 3/32" = 1'-0"

**2 ELEVATION - SOUTH EAST**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1

ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOP SUBMISSION
Date:		
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
ARCHITECT:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
MEP/P ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	MPFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
GEOTECHNICAL ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
BOB BOARD:		
BOB STAMPS & SIGNATURES:		
DWG TITLE:	<b>BUILDING ELEVATIONS - NORTH TOWER</b>	
SCALE & SIGNATURE:	DATE: 09/01/2015	PROJECT #: 15008
	SCALE: 1/8" = 1'-0"	
	<b>A-311.00</b>	
CAD FILE: 2115408 101 Lincoln Ave_S&B.dwg	DWG NO.:	SHEET 103 OF 130

**FACADE CALCULATIONS**  
 FACADE: 14,222.00 SQ. FT.  
 30% FACADE SF = 4,266.6 SF  
 OPENINGS: 4,909.52 SQ. FT.

**FACADE CALCULATIONS**  
 FACADE: 7,468.51 SQ. FT. + 519.17 SQ. FT. (BULKHEAD) = 7,987.68 SQ. FT.  
 30% FACADE SF = 2,396.30 SF  
 OPENINGS: 2,773.01 SQ. FT.

ROOF  
T.O.S. EL. +262'-0"

25TH FLOOR  
T.O.S. EL. +252'-0"

24TH FLOOR  
T.O.S. EL. +242'-0"

23RD FLOOR  
T.O.S. EL. +232'-0"

22ND FLOOR  
T.O.S. EL. +222'-0"

21ST FLOOR  
T.O.S. EL. +211'-4"

20TH FLOOR  
T.O.S. EL. +201'-8"

19TH FLOOR  
T.O.S. EL. +192'-0"

18TH FLOOR  
T.O.S. EL. +182'-4"

17TH FLOOR  
T.O.S. EL. +172'-8"

16TH FLOOR  
T.O.S. EL. +163'-0"

15TH FLOOR  
T.O.S. EL. +153'-4"

14TH FLOOR  
T.O.S. EL. +143'-8"

13TH FLOOR  
T.O.S. EL. +134'-0"

12TH FLOOR  
T.O.S. EL. +124'-4"

11TH FLOOR  
T.O.S. EL. +114'-8"

10TH FLOOR  
T.O.S. EL. +105'-0"

9TH FLOOR  
T.O.S. EL. +95'-4"

8TH FLOOR  
T.O.S. EL. +85'-8"

7TH FLOOR  
T.O.S. EL. +76'-0"

6TH FLOOR  
T.O.S. EL. +66'-4"

5TH FLOOR  
T.O.S. EL. +55'-8"

4TH FLOOR  
T.O.S. EL. +45'-0"

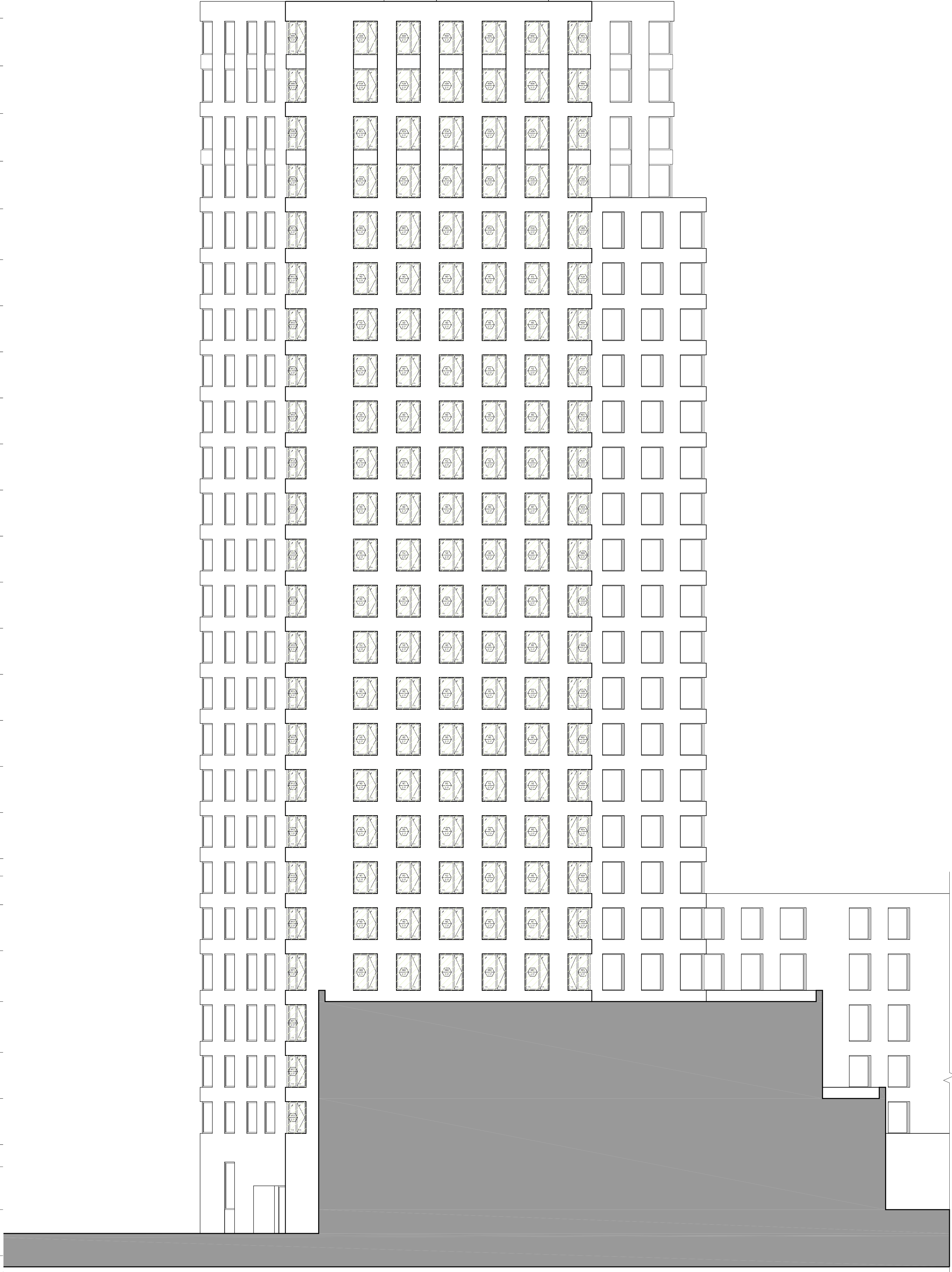
3RD FLOOR  
T.O.S. EL. +35'-4"

2ND FLOOR  
T.O.S. EL. +25'-8"  
PARKING LEVEL P3  
T.O.S. EL. +21'-0"

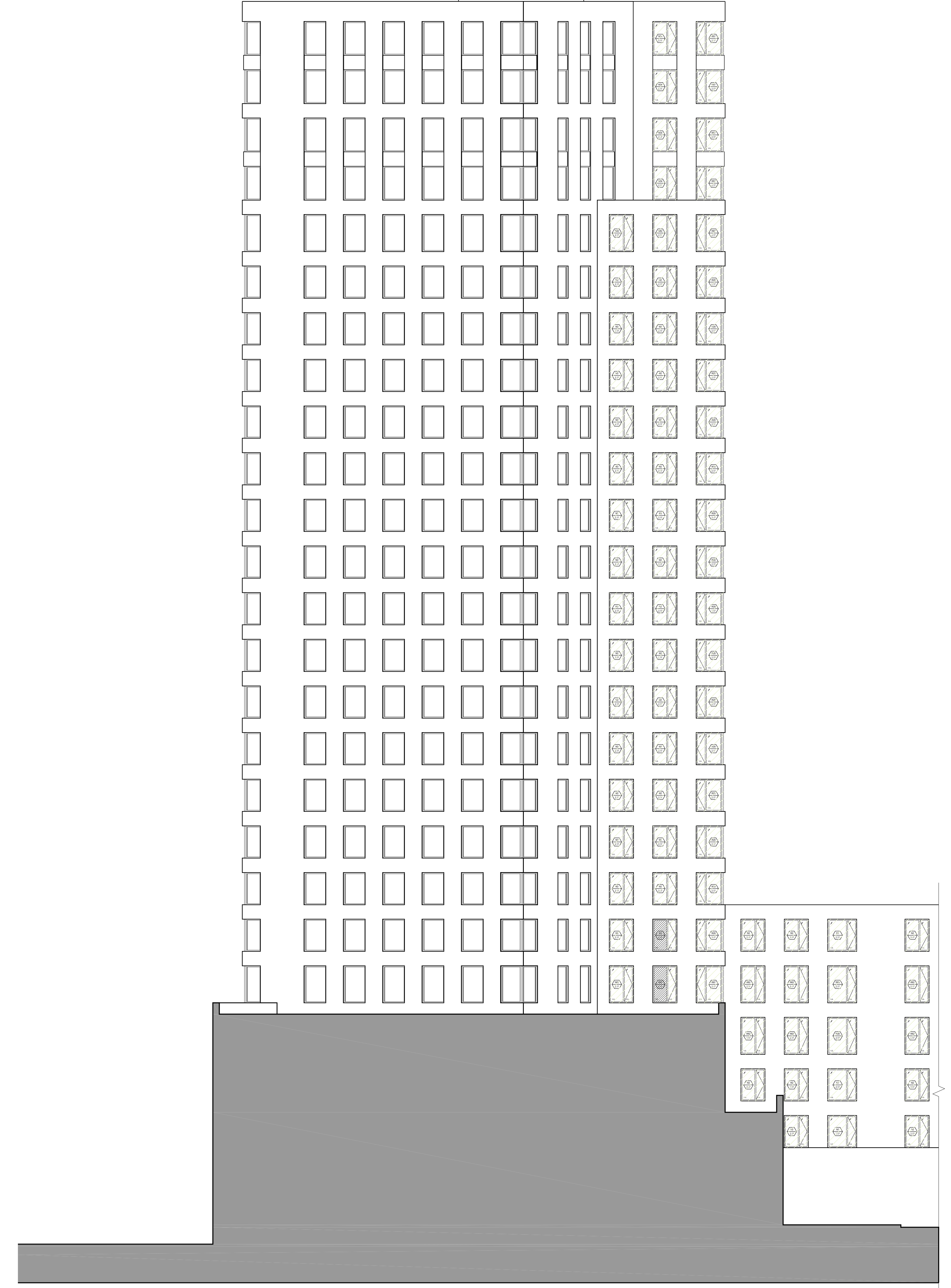
1ST FLOOR  
T.O.S. EL. +12'-0"

CELLAR LEVEL  
T.O.S. EL. +2'-4"  
PARKING LEVEL P1  
T.O.S. EL. 0'-6"

250'-0" MAXIMUM FLOOR-TO-FLOOR HEIGHT  
 210'-0" MAXIMUM FLOOR-TO-FLOOR HEIGHT  
 170'-0" MAXIMUM BASE HEIGHT

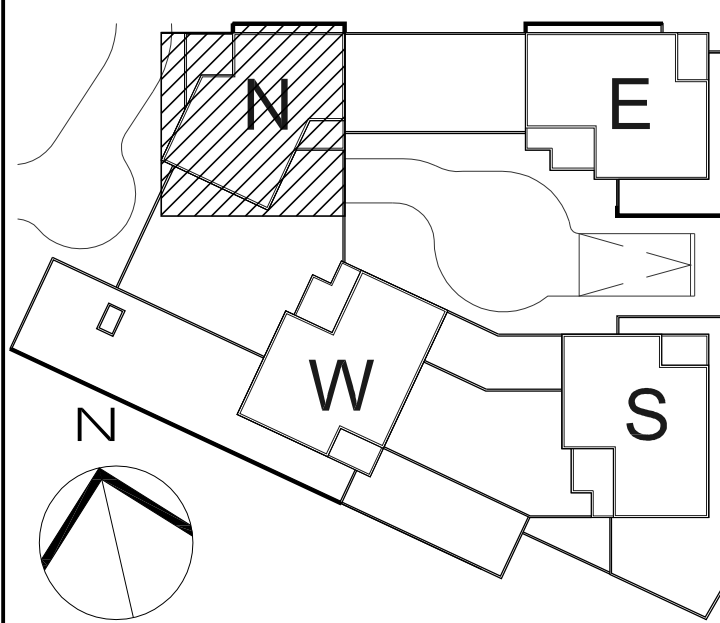


**1 ELEVATION - SOUTH WEST**  
3/32" = 1'-0"



**2 ELEVATION - SOUTH**  
3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**  

 FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	TOR SUMMERSBY
Owner:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018	
Project:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
Executive Architect:	 <b>Goldstein, Hill &amp; West Architects, LLP</b> 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
Structural Engineer:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
ME/PFP Engineer:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
Civil Engineer:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LandscAPE ARCHITECT:	MPFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
Geotechnical Engineer:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
Consultant:		
Consultant:		
DOB REG:		
DOB STAMPS & SIGNATURES:		
DWG TITLE:	<b>BUILDING ELEVATIONS - NORTH TOWER</b>	

**FACADE CALCULATIONS**  
 FACADE: 25,992.28 SQ. FT.  
 30% FACADE SF = 7,788.68 SF  
 OPENINGS: 8,023.60 SQ. FT.

**FACADE CALCULATIONS**  
 FACADE: 10,241.91 SQ. FT.  
 30% FACADE SF = 3,072.57 SF  
 OPENINGS: 2,897.06 SQ. FT.

ROOF  
T.O.S. EL. +262'-0"

25TH FLOOR  
T.O.S. EL. +252'-0"

24TH FLOOR  
T.O.S. EL. +242'-0"

23RD FLOOR  
T.O.S. EL. +232'-0"

22ND FLOOR  
T.O.S. EL. +222'-0"

21ST FLOOR  
T.O.S. EL. +211'-4"

20TH FLOOR  
T.O.S. EL. +201'-8"

19TH FLOOR  
T.O.S. EL. +192'-0"

18TH FLOOR  
T.O.S. EL. +182'-4"

17TH FLOOR  
T.O.S. EL. +172'-8"

16TH FLOOR  
T.O.S. EL. +163'-0"

15TH FLOOR  
T.O.S. EL. +153'-4"

14TH FLOOR  
T.O.S. EL. +143'-8"

13TH FLOOR  
T.O.S. EL. +134'-0"

12TH FLOOR  
T.O.S. EL. +124'-4"

11TH FLOOR  
T.O.S. EL. +114'-8"

10TH FLOOR  
T.O.S. EL. +105'-0"

9TH FLOOR  
T.O.S. EL. +95'-4"

8TH FLOOR  
T.O.S. EL. +85'-8"

7TH FLOOR  
T.O.S. EL. +76'-0"

6TH FLOOR  
T.O.S. EL. +66'-4"

5TH FLOOR  
T.O.S. EL. +55'-8"

4TH FLOOR  
T.O.S. EL. +45'-0"

3RD FLOOR  
T.O.S. EL. +35'-4"

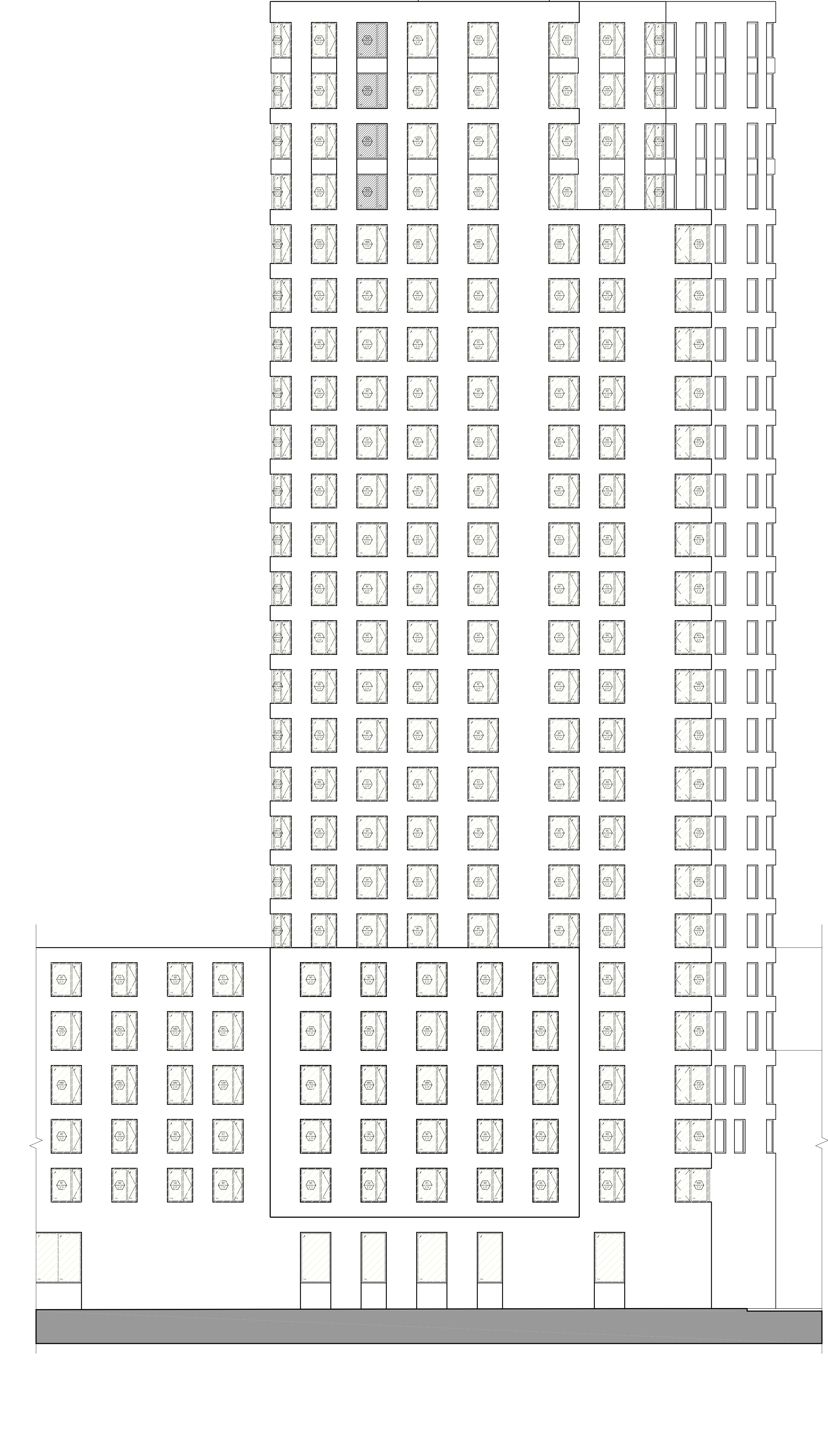
2ND FLOOR  
T.O.S. EL. +25'-8"

PARKING LEVEL P3  
T.O.S. EL. +21'-0"

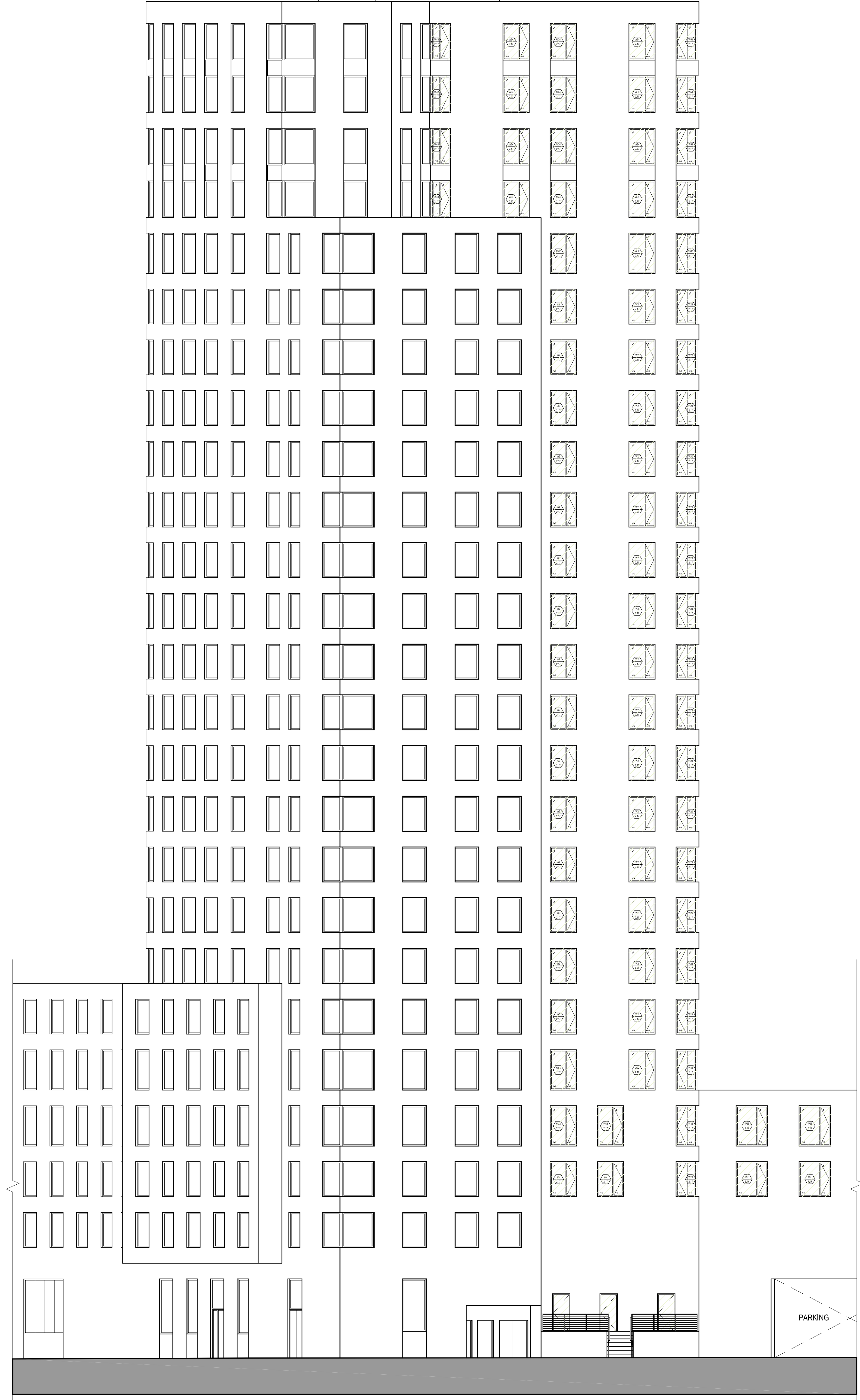
1ST FLOOR  
T.O.S. EL. +12'-0"

CELLAR LEVEL  
T.O.S. EL. +2'-4"

PARKING LEVEL P1  
T.O.S. EL. 0'-6"



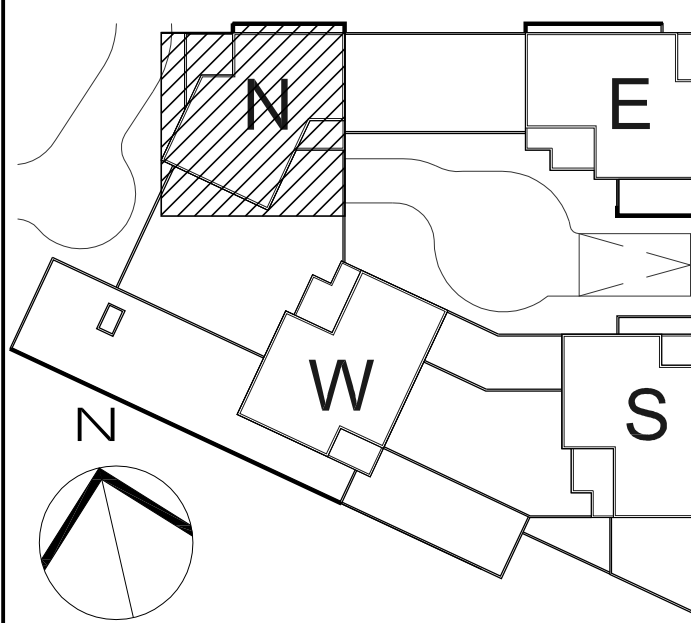
**1 ELEVATION - NORTH**  
3/32" = 1'-0"



**2 ELEVATION - NORTH WEST**  
3/32" = 1'-0"

DATE: 09/01/2015  
 PROJECT #: 15408  
 SCALE: 3/32" = 1'-0"  
**A-312.00**  
 DWG NO.:  
 CAD FILE: 2115408 101 Lincoln Ave\_S&B.dwg  
 SHEET 104 OF 130





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC9002.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09012015	TOP SUBMISSION
Date:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEP/P ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**REGISTERED ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**DOB BOARD:**

**DOB STAMPS & SIGNATURES:**

**DATE:**  
 09/01/2015

**BUILDING ELEVATIONS - NORTH TOWER**

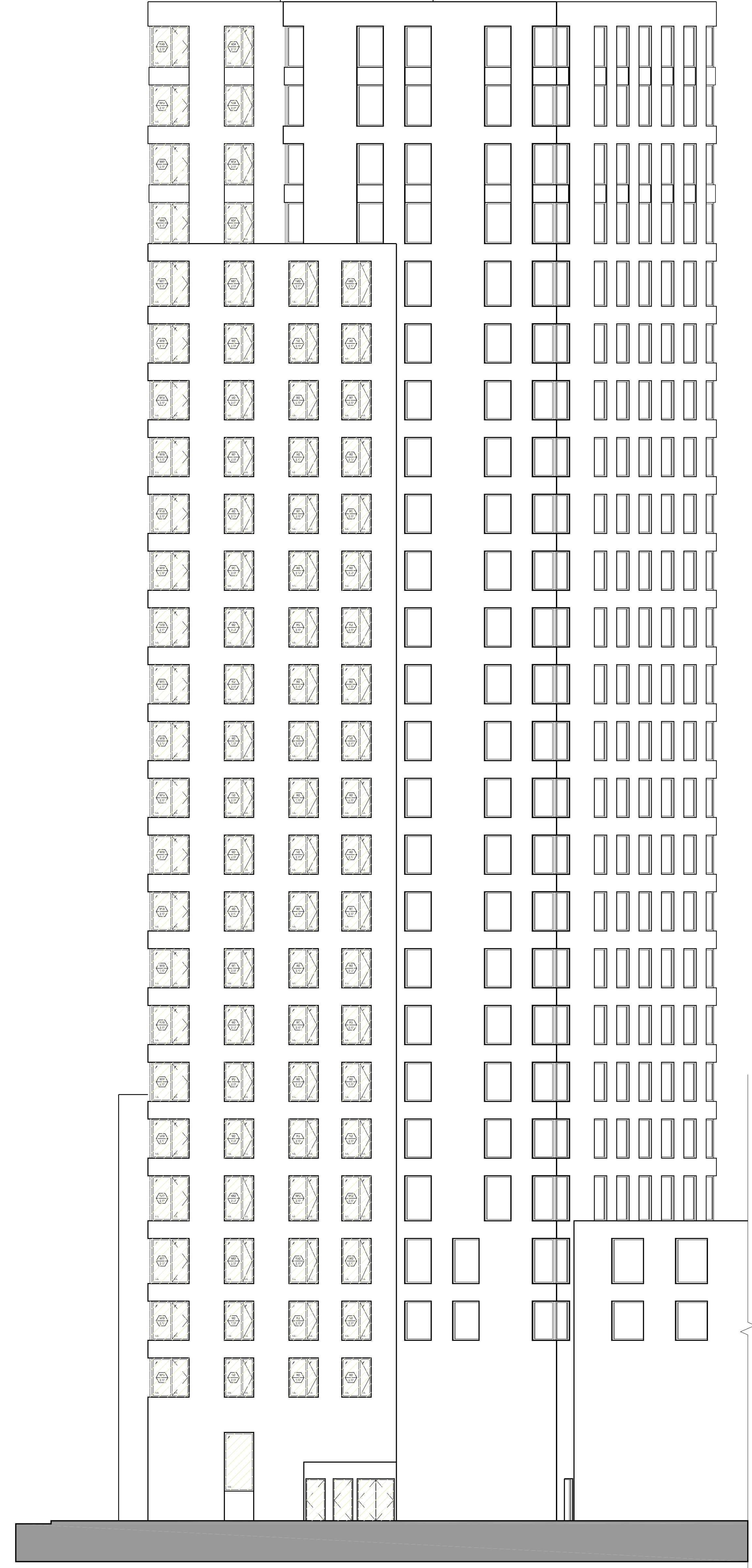
**SCALE:**  
 1/8" = 1'-0"

**PROJECT #:** 15008  
**SCALE:** 1/8" = 1'-0"  
**A-313.00**

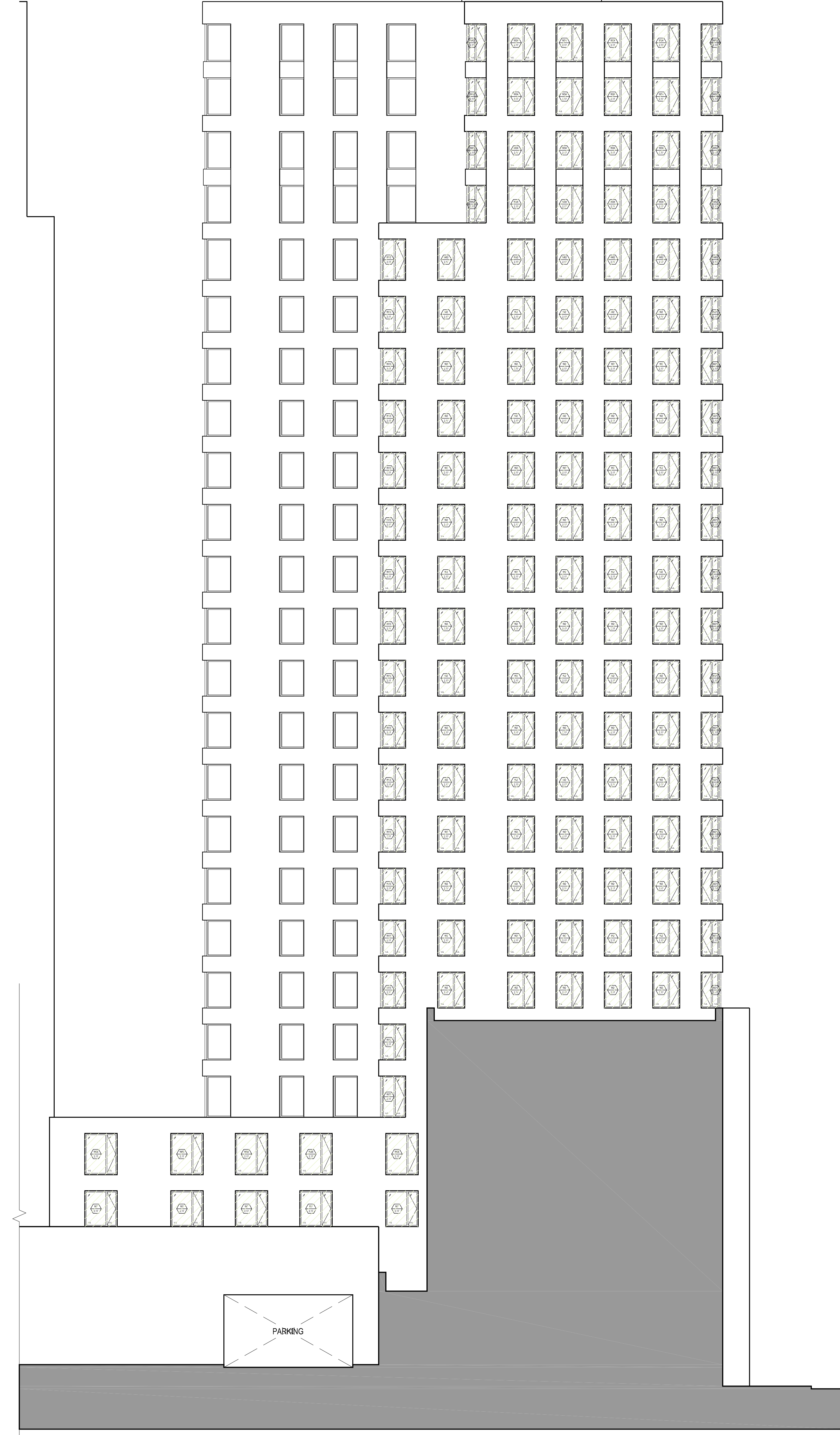
**FACADE CALCULATIONS**  
 FACADE: 10,699.62 SQ. FT.  
 30% FACADE SF = 3,197.89 SF  
 OPENINGS: 3,423.72 SQ. FT.

**FACADE CALCULATIONS**  
 FACADE: 15,313.47 SQ. FT.  
 30% FACADE SF = 4,594.04 SF  
 OPENINGS: 4,628.89 SQ. FT.

ROOF  
 T.O.S. EL. +262'-0"  
 25TH FLOOR  
 T.O.S. EL. +252'-0"  
 24TH FLOOR  
 T.O.S. EL. +242'-0"  
 23RD FLOOR  
 T.O.S. EL. +232'-0"  
 22ND FLOOR  
 T.O.S. EL. +222'-0"  
 21ST FLOOR  
 T.O.S. EL. +211'-4"  
 20TH FLOOR  
 T.O.S. EL. +201'-8"  
 19TH FLOOR  
 T.O.S. EL. +192'-0"  
 18TH FLOOR  
 T.O.S. EL. +182'-4"  
 17TH FLOOR  
 T.O.S. EL. +172'-8"  
 16TH FLOOR  
 T.O.S. EL. +163'-0"  
 15TH FLOOR  
 T.O.S. EL. +153'-4"  
 14TH FLOOR  
 T.O.S. EL. +143'-8"  
 13TH FLOOR  
 T.O.S. EL. +134'-0"  
 12TH FLOOR  
 T.O.S. EL. +124'-4"  
 11TH FLOOR  
 T.O.S. EL. +114'-8"  
 10TH FLOOR  
 T.O.S. EL. +105'-0"  
 9TH FLOOR  
 T.O.S. EL. +95'-4"  
 8TH FLOOR  
 T.O.S. EL. +85'-8"  
 7TH FLOOR  
 T.O.S. EL. +76'-0"  
 6TH FLOOR  
 T.O.S. EL. +66'-4"  
 5TH FLOOR  
 T.O.S. EL. +55'-8"  
 4TH FLOOR  
 T.O.S. EL. +45'-0"  
 3RD FLOOR  
 T.O.S. EL. +35'-4"  
 2ND FLOOR  
 T.O.S. EL. +25'-8"  
 PARKING LEVEL P3  
 T.O.S. EL. +21'-0"  
 1ST FLOOR  
 T.O.S. EL. +12'-0"  
 CELLAR LEVEL  
 T.O.S. EL. +2'-4"  
 PARKING LEVEL P1  
 T.O.S. EL. +0'-6"

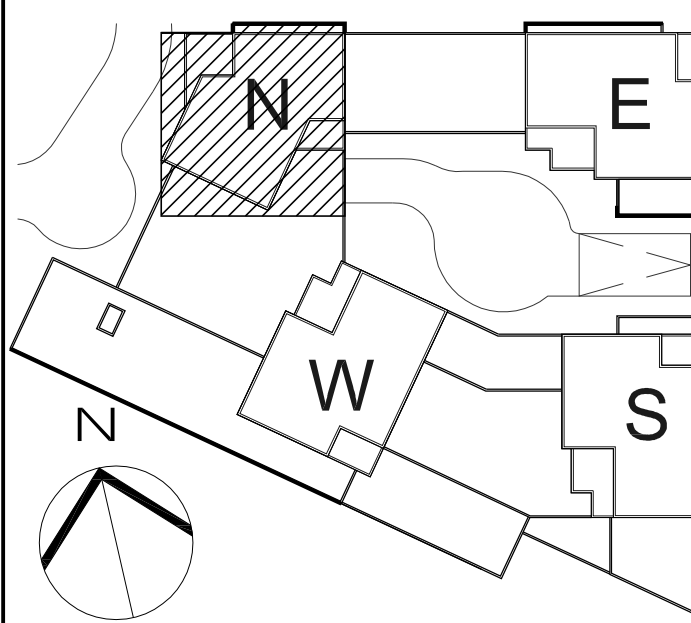


**1 ELEVATION - WEST**  
 3/32" = 1'-0"



**2 ELEVATION - EAST**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC902.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1

ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09/01/2015	FOR SUBMISSION
Date:		Version:

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEP/PFP ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**REGISTERED ELECTRICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**DOB BOARD:**

**DOB STAMPS & SIGNATURES:**

**DATE:** 09/01/2015

**BUILDING ELEVATIONS - NORTH TOWER**

**SCALE:** 1/8" = 1'-0"

**A-314.00**

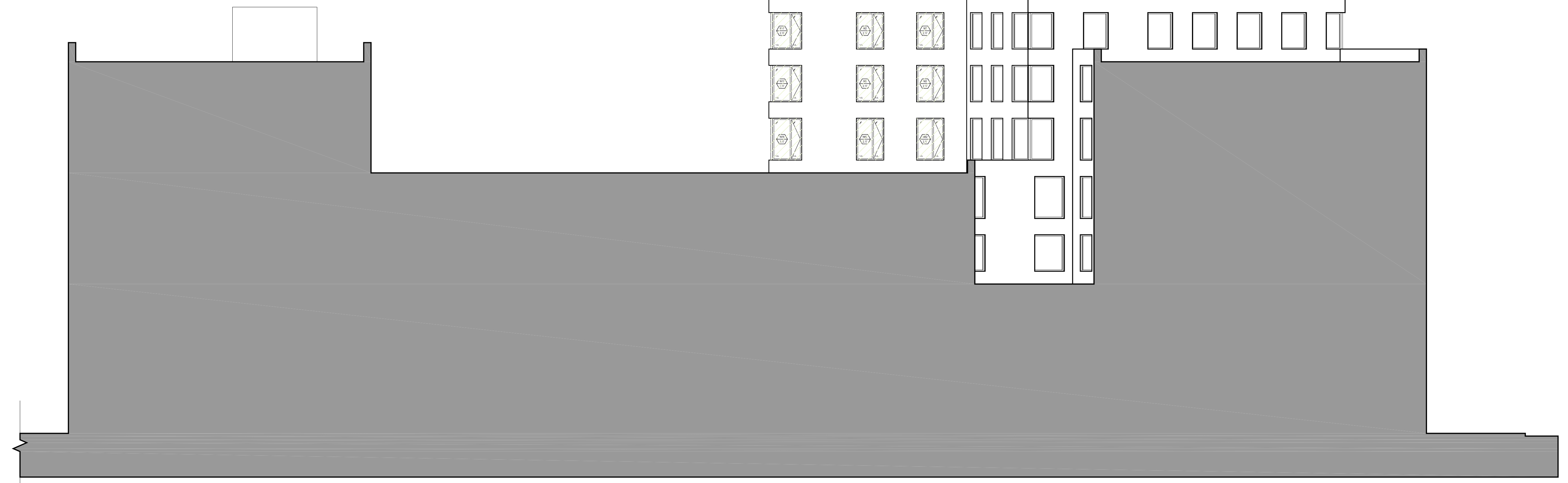
**FACADE CALCULATIONS**  
 FACADE: 8,358.40 SQ. FT.  
 30% FACADE SF = 2,507.52 SF  
 OPENINGS: 2,419.56 SQ. FT.

ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-8"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
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15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
13TH FLOOR	T.O.S. EL. +134'-0"	9'-8"
12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
5TH FLOOR	T.O.S. EL. +55'-8"	10'-8"
4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	12'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	
1ST FLOOR	T.O.S. EL. +12'-0"	
CELLAR LEVEL	T.O.S. EL. +2'-4"	
PARKING LEVEL P1	T.O.S. EL. +0'-6"	

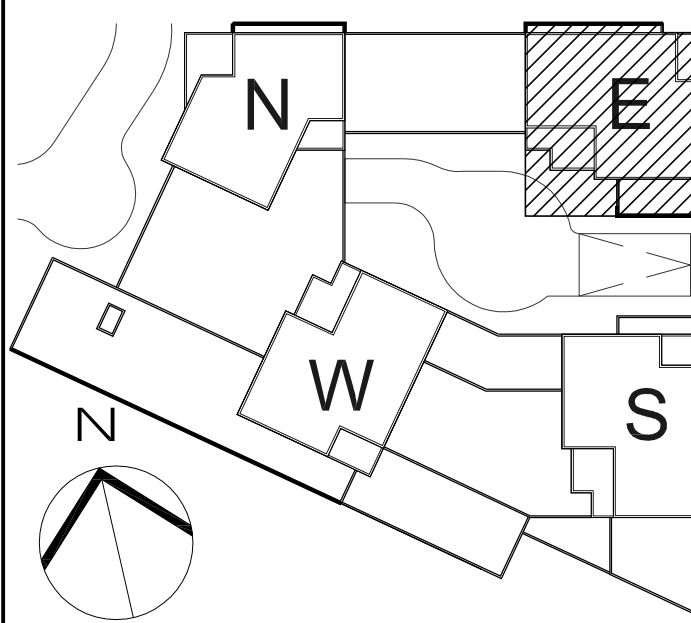
[250'-0" MAXIMUM PENHOUSE]

[210'-0" MAXIMUM TOWER HEIGHT]

[70'-0" MAXIMUM BASE HEIGHT]







**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER 90502.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number: 09012015 Date: 09/01/2015

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**REQUIRED ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEP/P ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**DOB BOARD:**

**DOB STAMPS & SIGNATURES:**

**DWG TITLE:**  
 BUILDING ELEVATIONS - EAST TOWER

**DATE:** 09/01/2015  
**PROJECT #:** 15008

**SCALE:** 1/8" = 1'-0"  
**A-315.00**

**DWG NO.:** SHEET 107 OF 130

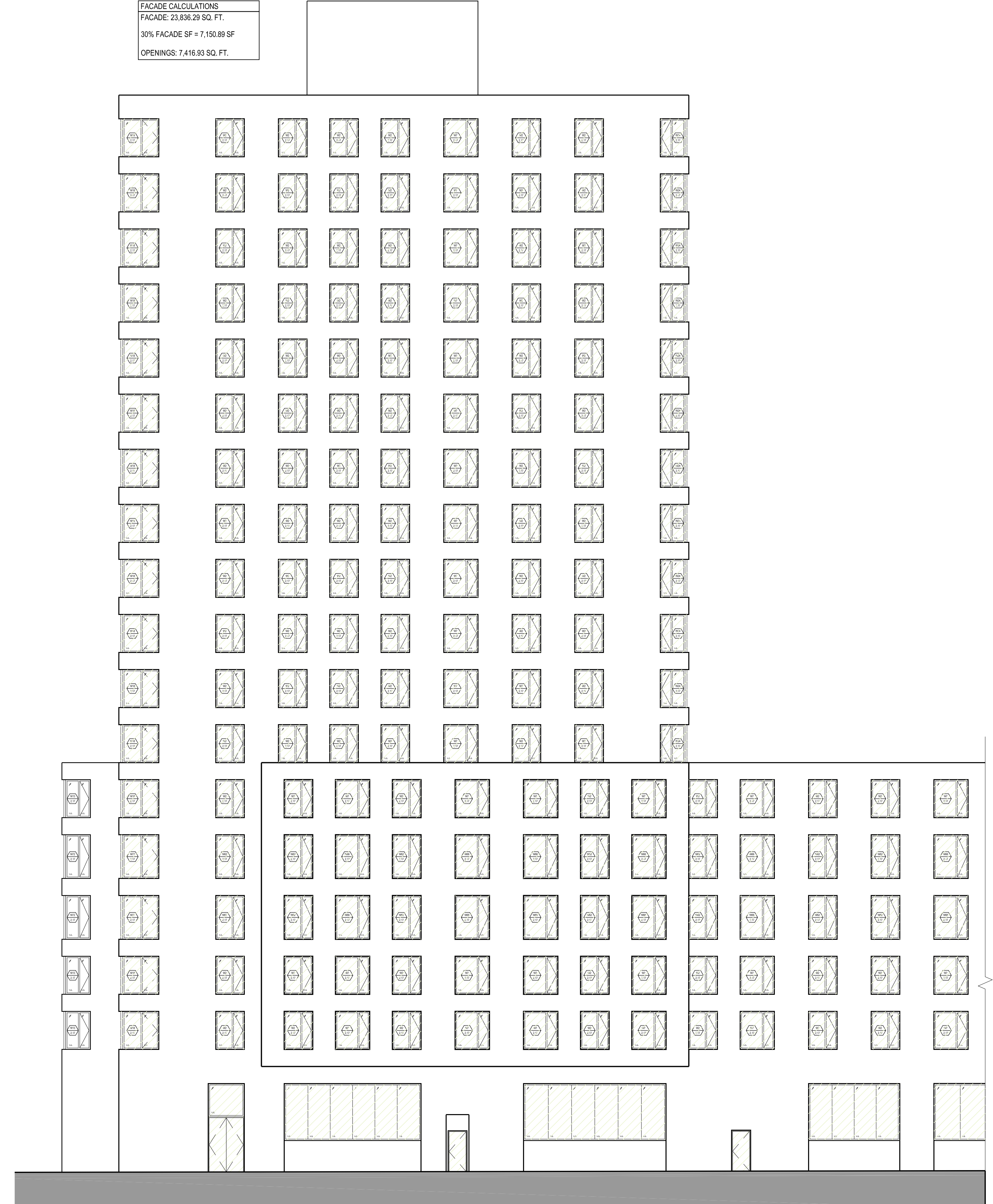
ROOF  
T.O.S. EL. +262'-0"  
 25TH FLOOR  
T.O.S. EL. +252'-0"  
 24TH FLOOR  
T.O.S. EL. +242'-0"  
 23RD FLOOR  
T.O.S. EL. +232'-0"  
 22ND FLOOR  
T.O.S. EL. +222'-0"  
 21ST FLOOR  
T.O.S. EL. +211'-4"  
 20TH FLOOR  
T.O.S. EL. +201'-8"  
 19TH FLOOR  
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 18TH FLOOR  
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T.O.S. EL. +124'-4"  
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T.O.S. EL. +85'-8"  
 7TH FLOOR  
T.O.S. EL. +76'-0"  
 6TH FLOOR  
T.O.S. EL. +66'-4"  
 5TH FLOOR  
T.O.S. EL. +55'-8"  
 4TH FLOOR  
T.O.S. EL. +45'-0"  
 3RD FLOOR  
T.O.S. EL. +35'-4"  
 2ND FLOOR  
T.O.S. EL. +25'-8"  
 PARKING LEVEL P3  
T.O.S. EL. +21'-0"  
 1ST FLOOR  
T.O.S. EL. +12'-0"  
 CELLAR LEVEL  
T.O.S. EL. +2'-4"  
 PARKING LEVEL P1  
T.O.S. EL. 0'-6"

**FACADE CALCULATIONS**  
 FACADE: 21,979.84 SQ. FT.  
 30% FACADE SF = 7,793.95 SF  
 OPENINGS: 8,400.46 SQ. FT.

**FACADE CALCULATIONS**  
 FACADE: 21,898.29 SQ. FT.  
 30% FACADE SF = 7,158.89 SF  
 OPENINGS: 7,416.93 SQ. FT.

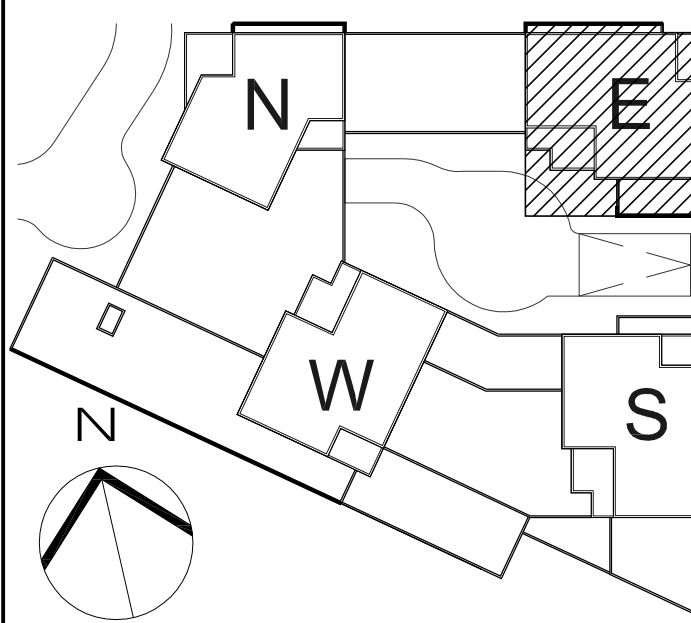


**1 ELEVATION - SOUTH**  
 3/32" = 1'-0"



**2 ELEVATION - NORTH**  
 3/32" = 1'-0"





**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC9002.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS

ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**

FACADE ENERGY AREA CALCULATION

**NOT FOR CONSTRUCTION**

Number:	09012015	TOP SURVEYOR
Date:		Issue:

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**M/E/P ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

**REGISTERED ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**BOB BOARD:**

**BOB STAMPS & SIGNATURES:**

**DWG TITLE:**

**BUILDING ELEVATIONS - EAST TOWER**

**DATE:** 09/01/2015  
**PROJECT #:** 15008

**SCALE:**

ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-0"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
16TH FLOOR	T.O.S. EL. +163'-0"	9'-8"
15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
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12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
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4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	9'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	13'-8"
1ST FLOOR	T.O.S. EL. +12'-0"	9'-8"
CELLAR LEVEL	T.O.S. EL. +2'-4"	
PARKING LEVEL P1	T.O.S. EL. +0'-6"	

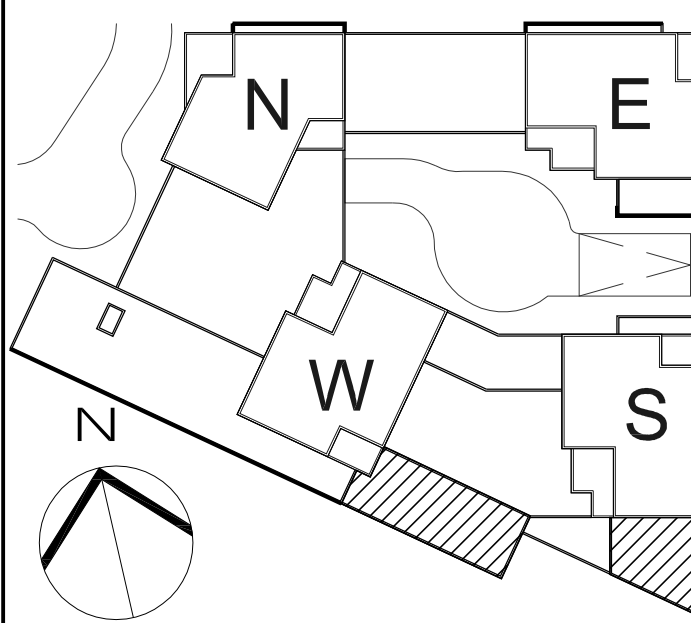
FACADE CALCULATIONS  
 FACADE: 12,100.73 SQ. FT.  
 30% FACADE SF = 3,630.22 SF  
 OPENINGS: 3,443.30 SQ. FT.

FACADE CALCULATIONS  
 FACADE: 18,913.53 SQ. FT.  
 30% FACADE SF = 5,674.06 SF  
 OPENINGS: 5,061.48 SQ. FT.

**1 ELEVATION - WEST**  
 3/32" = 1'-0"

**2 ELEVATION - EAST**  
 3/32" = 1'-0"

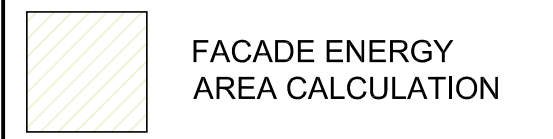




**KEY PLAN**

**NOTE:**  
 STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES), EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND ROOF CONSTRUCTION ARE TO BE OF NON-COMBUSTIBLE MATERIALS AS PER BC9002.2  
 REFER TO SHEET A-001.00, GENERAL NOTE #53 FOR FIRE-RESISTANCE RATINGS  
 ELEVATOR CAR AND COUNTERWEIGHT RUNBY CLEARANCES AT THE TOP AND BOTTOM OF HOISTWAY ARE PROVIDED AS PER BC 3002 AND ASME A17.1  
 ALL WINDOWS TO BE PROVIDED WITH TRICKLE VENTS.

**LEGEND:**



**NOT FOR CONSTRUCTION**

Number:	09/01/2015	FOR SUBMISSION
Date:		
Version:		

**OWNER:**  
 THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

**PROJECT:**  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

**EXECUTIVE ARCHITECT:**  
  
**Goldstein, Hill & West Architects, LLP**  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

**STRUCTURAL ENGINEER:**  
 DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

**MEP/P ENGINEER:**  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

**CIVIL ENGINEER:**  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

**LANDSCAPE ARCHITECT:**  
 MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10021

**GEOTECHNICAL ENGINEER:**  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

**CONSULTANT:**

**CONSULTANT:**

**DOB BOARD:**

**DOB STAMPS & SIGNATURES:**

**DWG TITLE:**

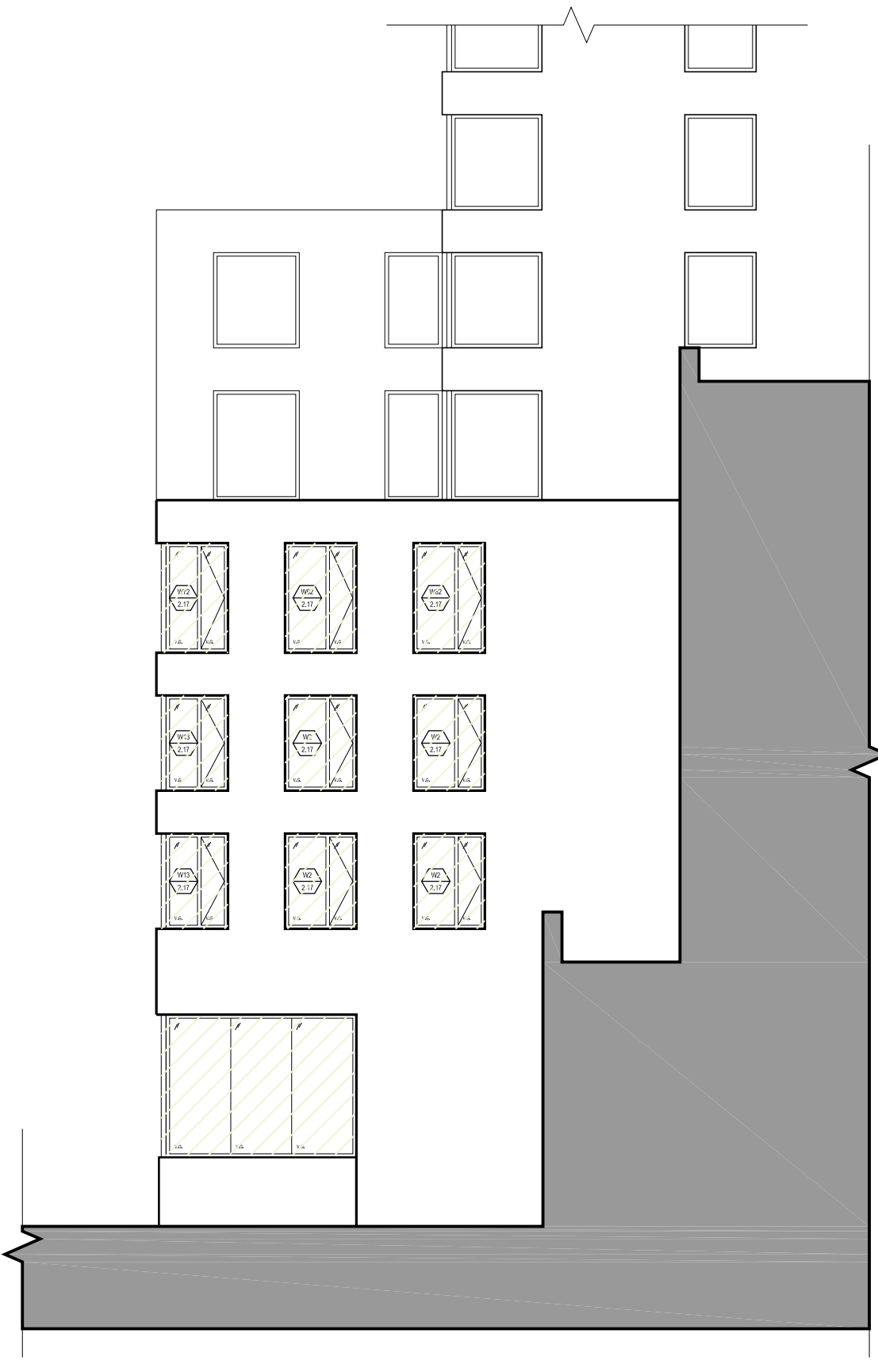
**PARTIAL ELEVATIONS - BUILDING BASE**

**SCALE & SIGNATURE:**

**DATE:** 09/01/2015  
**PROJECT #:** 15408  
**SCALE:** 1/8" = 1'-0"  
**A-317.00**

ROOF	T.O.S. EL. +262'-0"	10'-0"
25TH FLOOR	T.O.S. EL. +252'-0"	10'-0"
24TH FLOOR	T.O.S. EL. +242'-0"	10'-0"
23RD FLOOR	T.O.S. EL. +232'-0"	10'-0"
22ND FLOOR	T.O.S. EL. +222'-0"	10'-0"
21ST FLOOR	T.O.S. EL. +211'-4"	9'-8"
20TH FLOOR	T.O.S. EL. +201'-8"	9'-8"
19TH FLOOR	T.O.S. EL. +192'-0"	9'-8"
18TH FLOOR	T.O.S. EL. +182'-4"	9'-8"
17TH FLOOR	T.O.S. EL. +172'-8"	9'-8"
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15TH FLOOR	T.O.S. EL. +153'-4"	9'-8"
14TH FLOOR	T.O.S. EL. +143'-8"	9'-8"
13TH FLOOR	T.O.S. EL. +134'-0"	9'-8"
12TH FLOOR	T.O.S. EL. +124'-4"	9'-8"
11TH FLOOR	T.O.S. EL. +114'-8"	9'-8"
10TH FLOOR	T.O.S. EL. +105'-0"	9'-8"
9TH FLOOR	T.O.S. EL. +95'-4"	9'-8"
8TH FLOOR	T.O.S. EL. +85'-8"	9'-8"
7TH FLOOR	T.O.S. EL. +76'-0"	9'-8"
6TH FLOOR	T.O.S. EL. +66'-4"	10'-8"
5TH FLOOR	T.O.S. EL. +55'-8"	10'-8"
4TH FLOOR	T.O.S. EL. +45'-0"	9'-8"
3RD FLOOR	T.O.S. EL. +35'-4"	9'-8"
2ND FLOOR	T.O.S. EL. +25'-8"	12'-8"
PARKING LEVEL P3	T.O.S. EL. +21'-0"	
1ST FLOOR	T.O.S. EL. +12'-0"	
CELLAR LEVEL	T.O.S. EL. +2'-4"	
PARKING LEVEL P1	T.O.S. EL. +0'-6"	

**FACADE CALCULATIONS**  
 FACADE: 1,698.33 SQ. FT.  
 30% FACADE SF = 509.50 SF  
 OPENINGS: 444.66 SQ. FT.

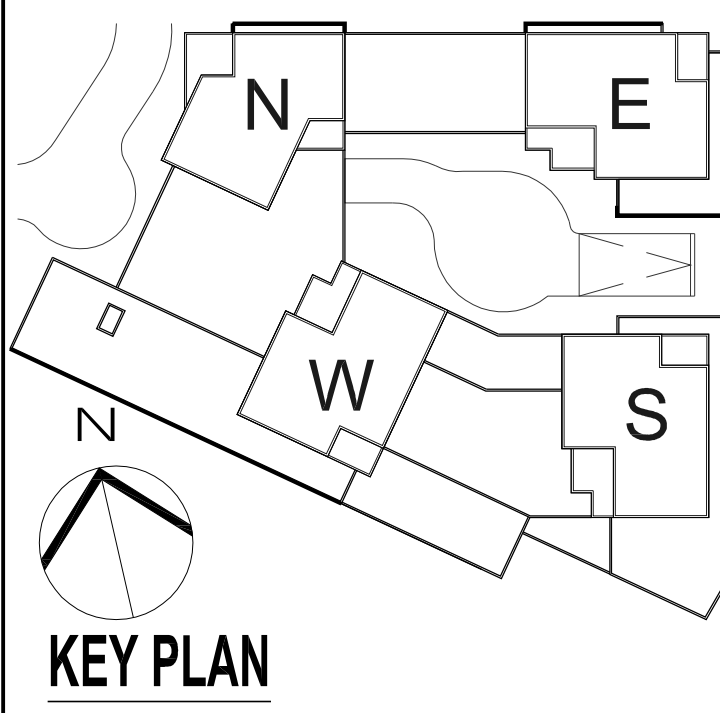


**1 PARTIAL ELEVATION - SOUTH EAST BASE**  
 3/32" = 1'-0"

**FACADE CALCULATIONS**  
 FACADE: 1,641.00 SQ. FT.  
 30% FACADE SF = 492.32 SF  
 OPENINGS: 389.43 SQ. FT.



**2 PARTIAL ELEVATION - SOUTH EAST BASE**  
 3/32" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION

09/01/2015 109 SUMMIT DR  
 NUMBER: DATE: REVISION:  
 OWNER: THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022  
 PROJECT: SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451  
 ARCHITECT: GHWA  
 Goldstein, Hill & West Architects, LLP  
 11 Broadway, Suite 1700  
 New York, NY 10004  
 Tel (212) 213-8007 Fax (212) 686-1754

STRUCTURAL ENGINEER: DESIMONE CONSULTING ENGINEERS  
 18 W 18TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

MEP/P ENGINEER: VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

ONLINE ENGINEER: AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT: MPFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

REGISTERED PROFESSIONAL ENGINEER: PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

BOB BOARD:

BOB STAMPS & SIGNATURES:

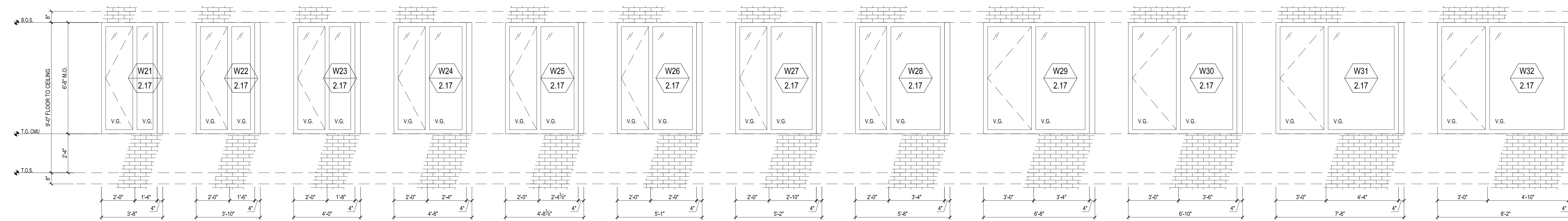
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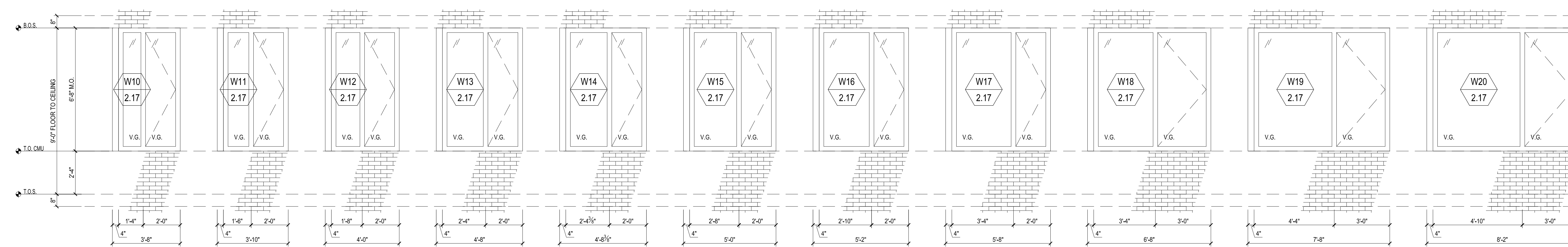
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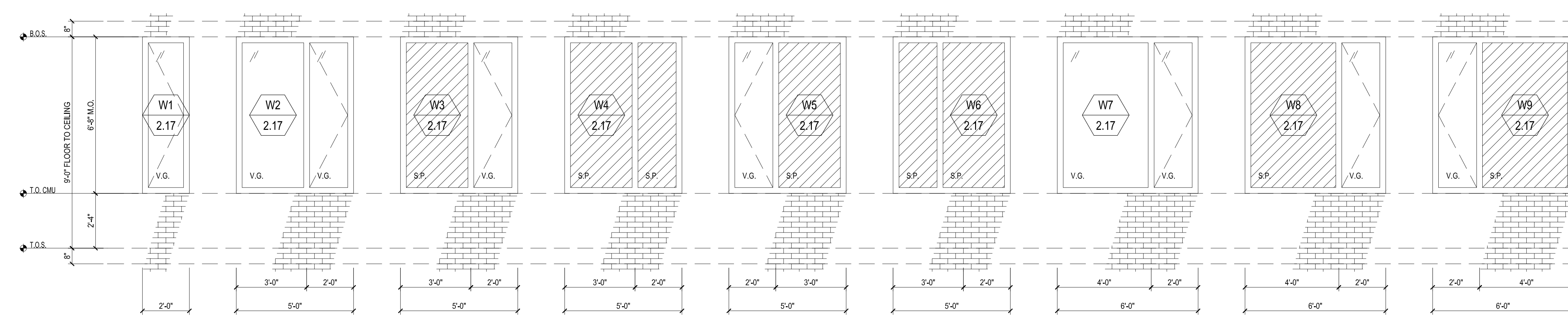
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9' - 8" FLOOR-TO-FLOOR HEIGHT - LEFT POST CORNER



9' - 8" FLOOR-TO-FLOOR HEIGHT - VISION & SPANDREL

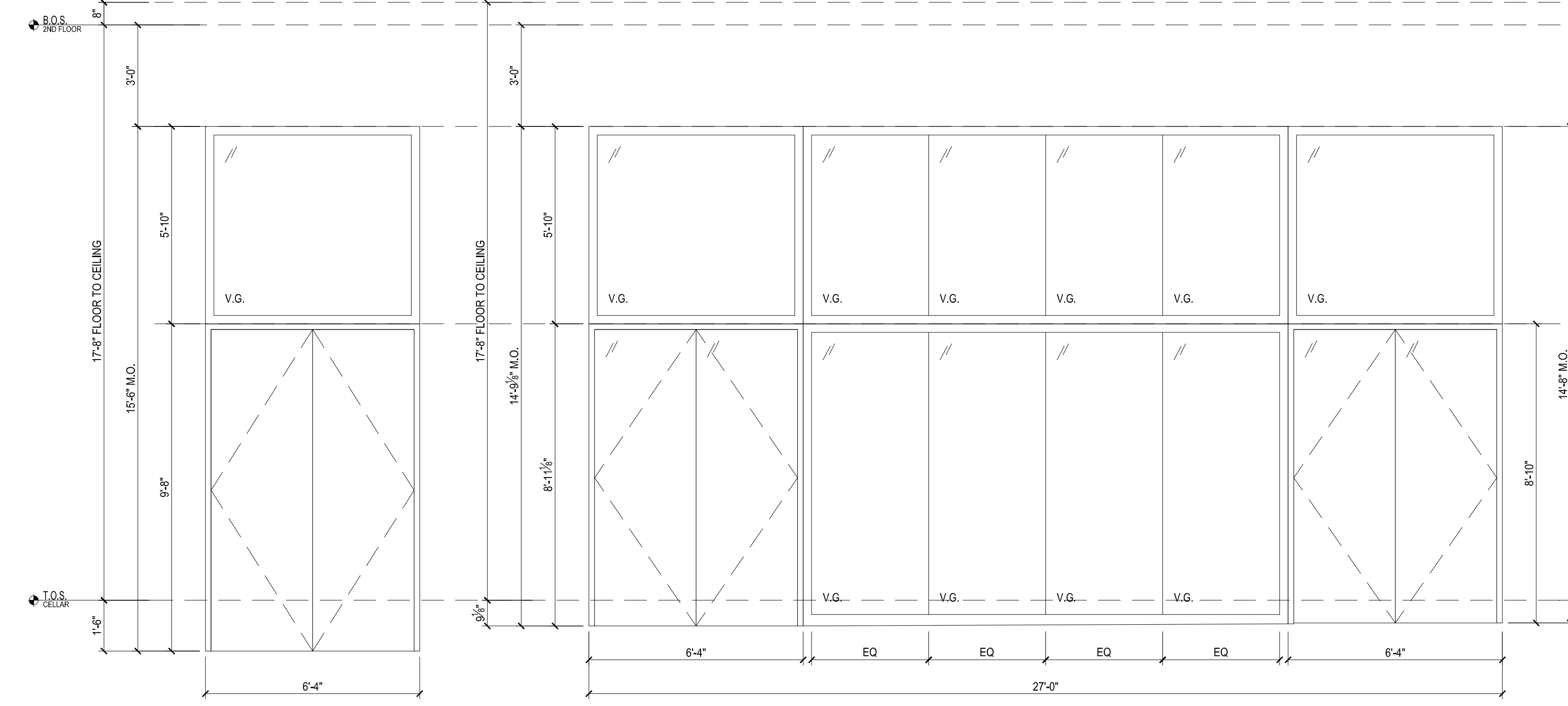


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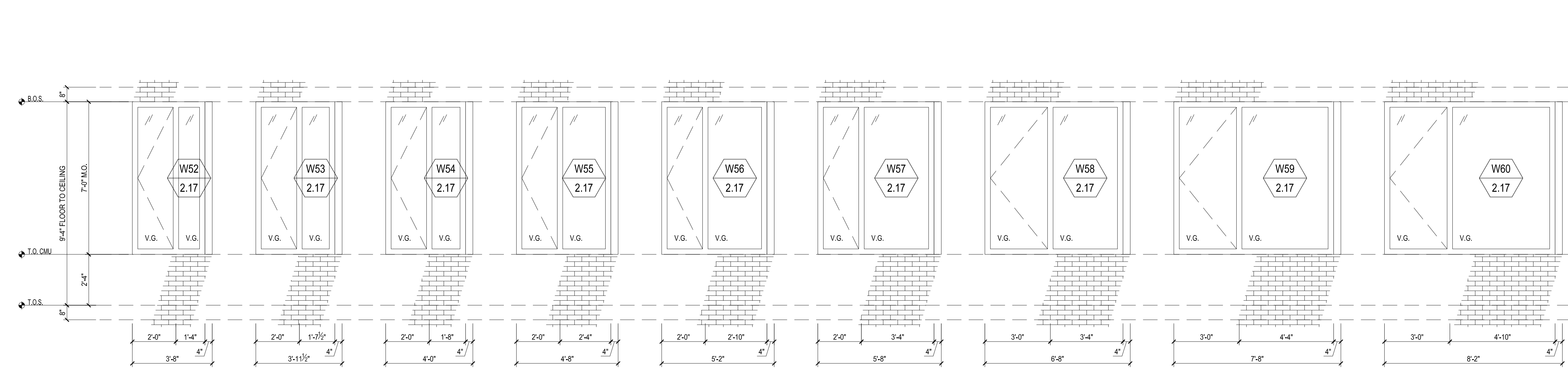
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- FIXED WINDOW
- FIXED WINDOW WITH SPANDREL GLASS
- LOUVER



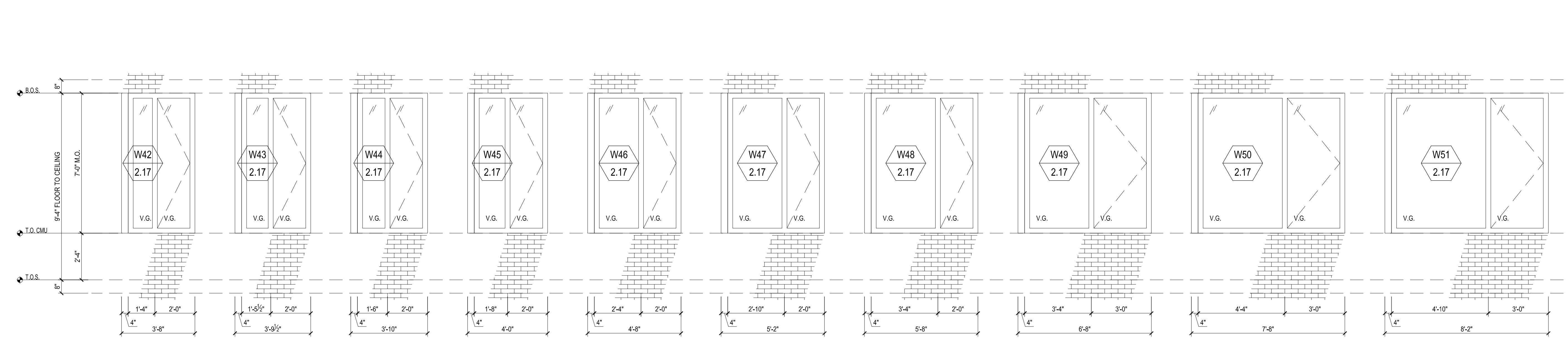
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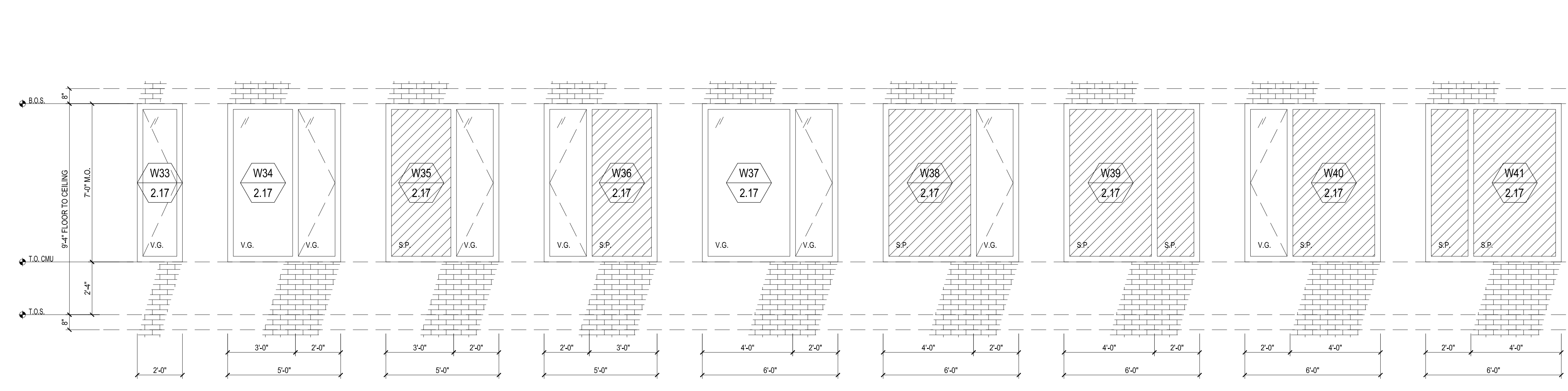
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10' - 0" FLOOR-TO-FLOOR HEIGHT - LEFT POST CORNER

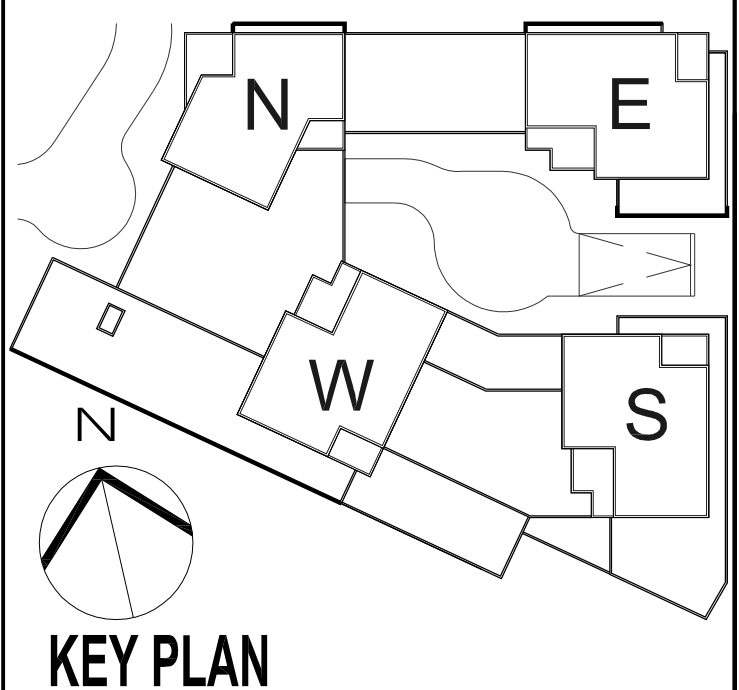


10' - 0" FLOOR-TO-FLOOR HEIGHT - VISION & SPANDREL



**KEY**

- INSWING CASEMENT (Symbol: V.G. with dashed lines)
- FIXED WINDOW (Symbol: V.G.)
- FIXED WINDOW WITH SPANDREL GLASS (Symbol: V.G. with diagonal hatching)
- LOUVER (Symbol: Horizontal lines)



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Number: 09012015 Date: 09/01/2015  
 OWNER: THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022  
 PROJECT: SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451  
 EXECUTIVE ARCHITECT:  
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 11 Broadway, Suite 1700  
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 Tel (212) 213-8007 Fax (212) 686-1754

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 NEW YORK, NY 10011

M/E/P ENGINEER:  
 VENTROP ENGINEERING  
 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 MFPF  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

REGISTERED ELECTRICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

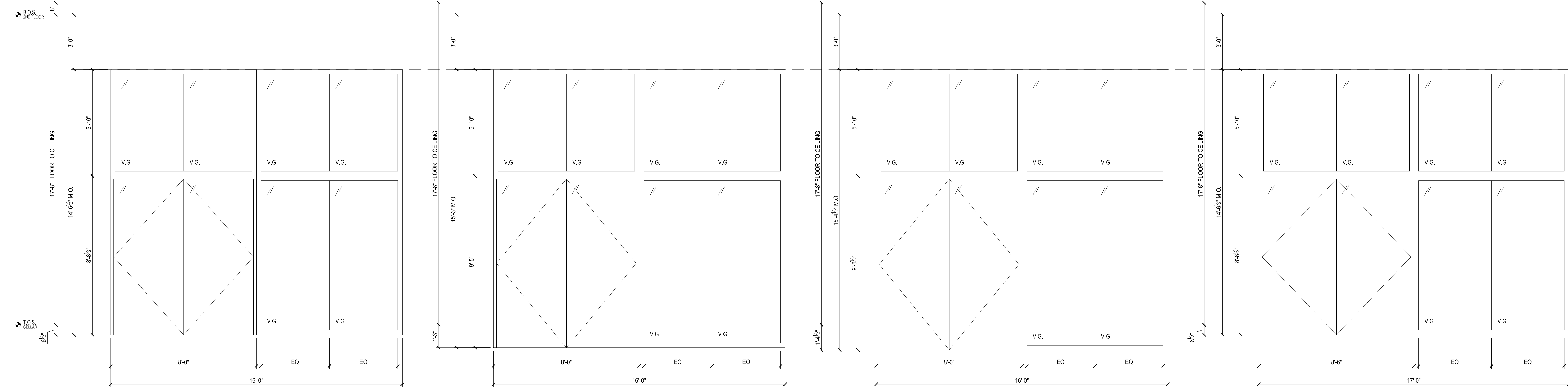
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BOB STAMPS & SIGNATURES:

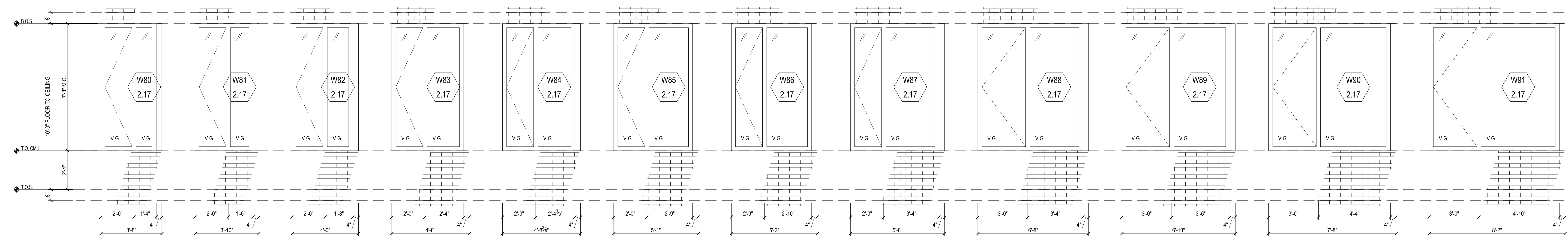
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 & STOREFRONT**

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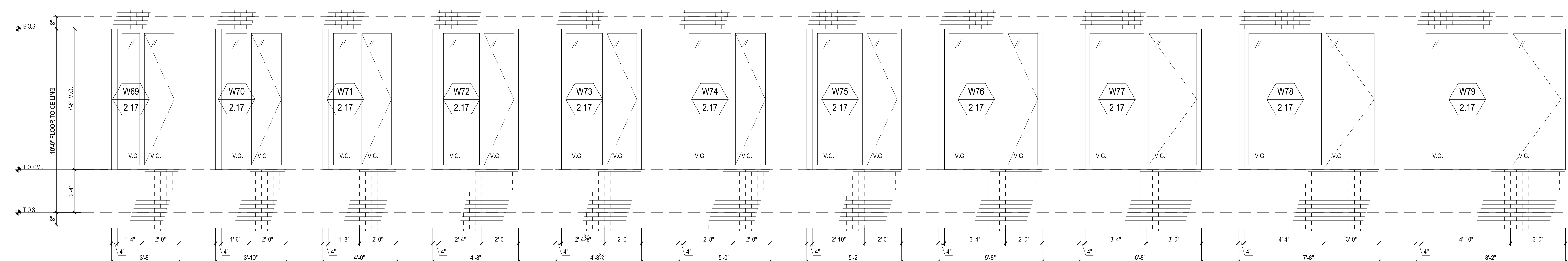
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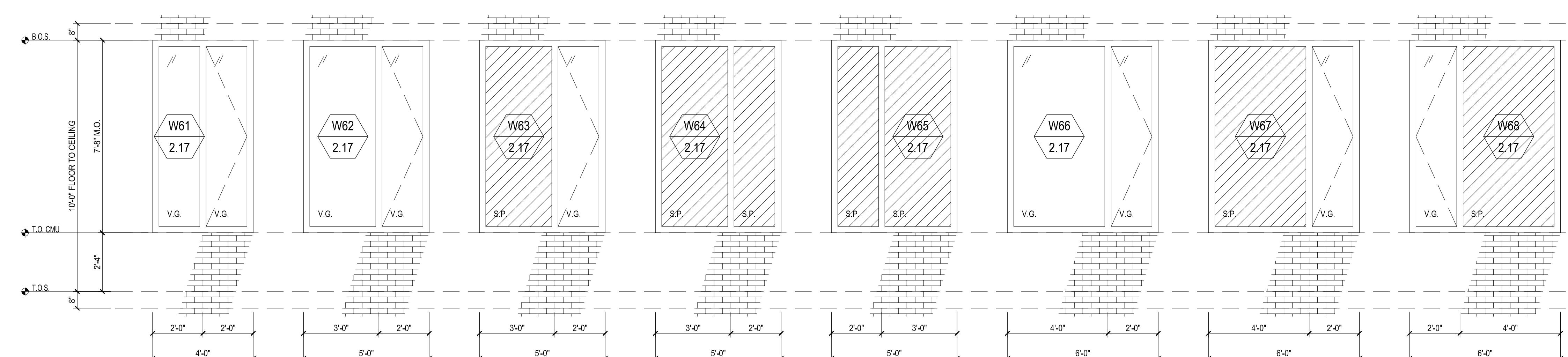
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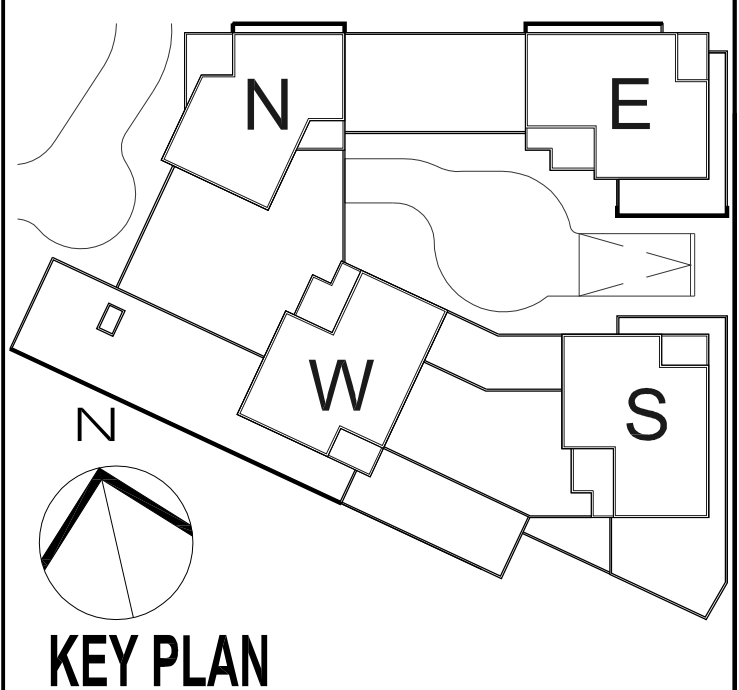


10' - 8" FLOOR-TO-FLOOR HEIGHT - VISION & SPANDREL



**KEY**

- INSWING CASEMENT
- FIXED WINDOW
- FIXED WINDOW WITH SPANDREL GLASS
- LOUVER



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Number: 09012015 Date: 09/01/2015  
 Title: WINDOW SCHEDULE  
 OWNER: THE CHETRIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022  
 PROJECT: SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451  
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STRUCTURAL ENGINEER:  
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 NEW YORK, NY 10011

ME/PFP ENGINEER:  
 VENTROP ENGINEERING CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
 NEW YORK, NY 10001

CIVIL ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 M/PFP  
 120 BROADWAY, 20TH FLOOR  
 NEW YORK, NY 10271

REGISTERED ELECTRICAL ENGINEER:  
 PILLORI ASSOCIATE, P.A.  
 71 ROUTE 35  
 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

BOB BOARD:

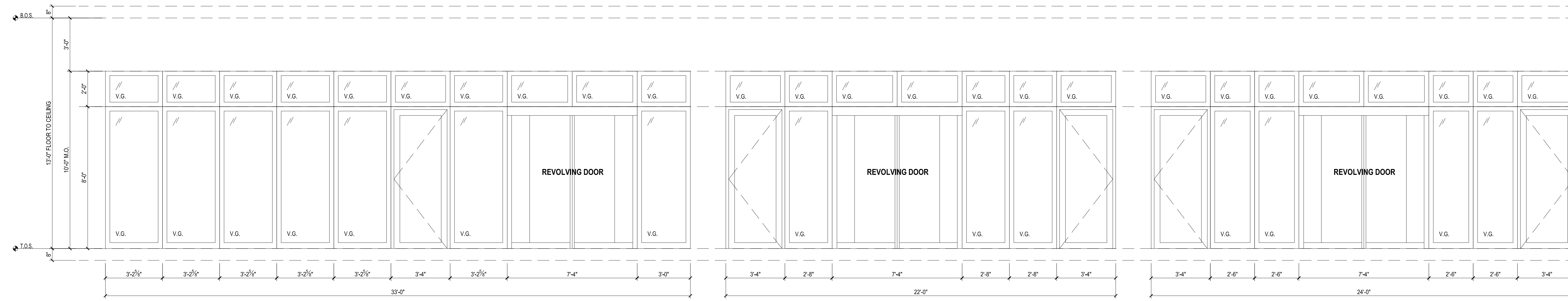
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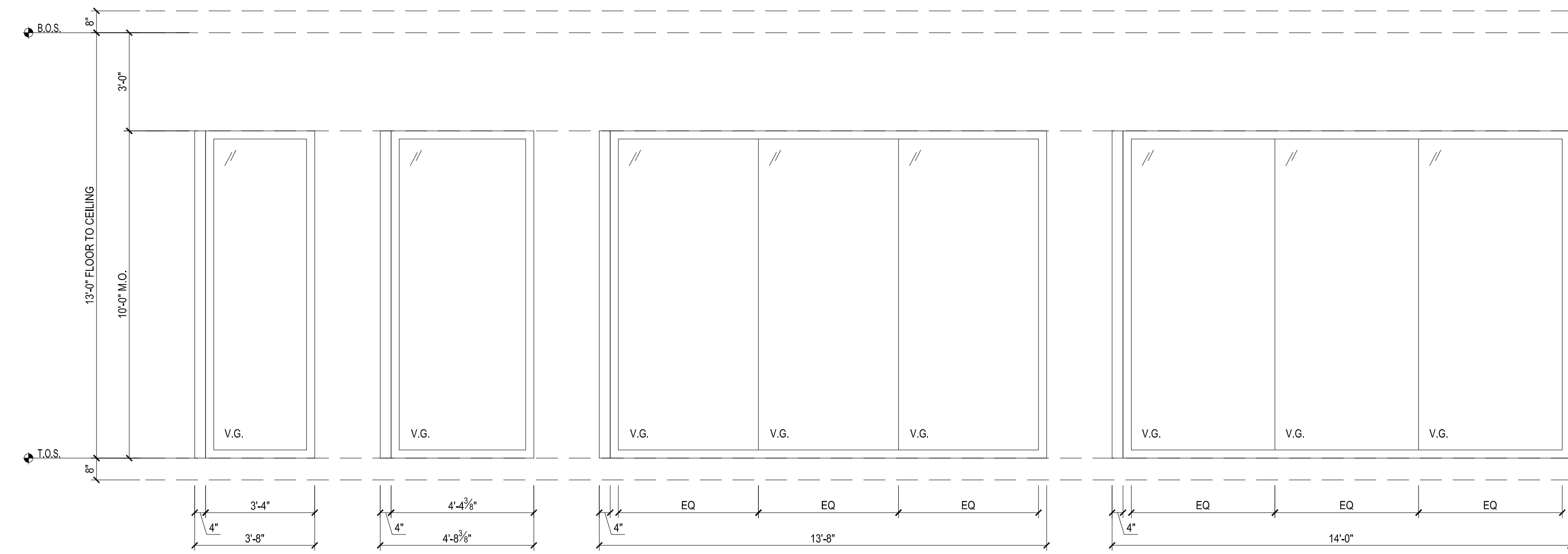
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**A-352.00**  
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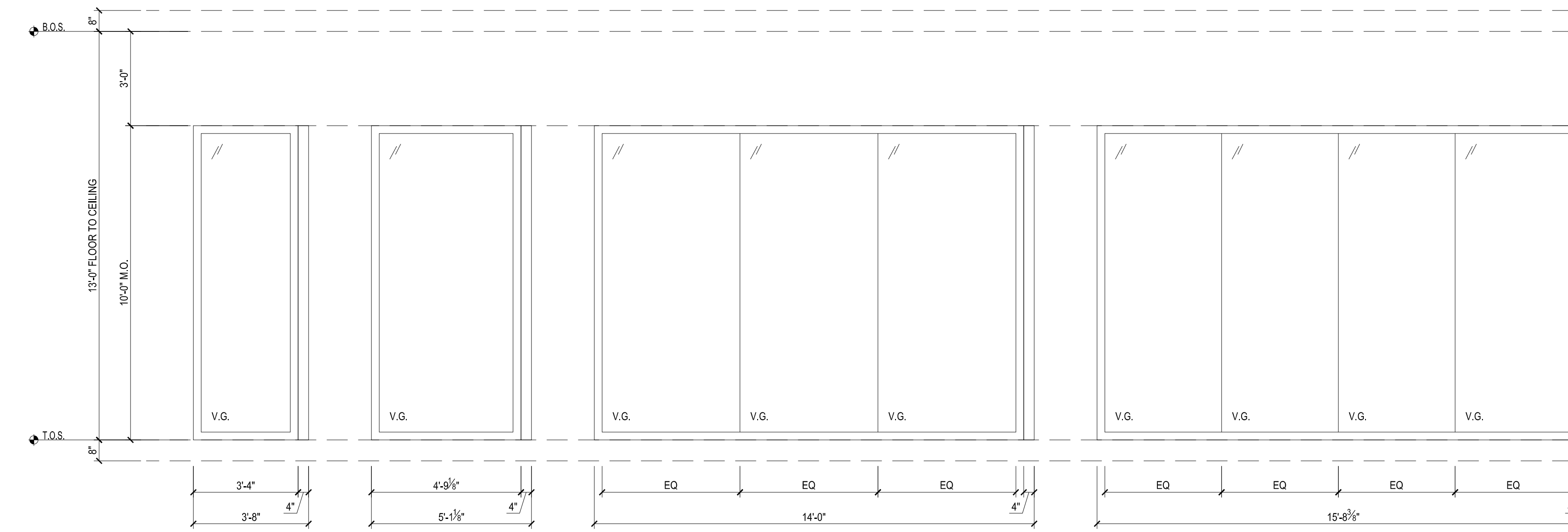
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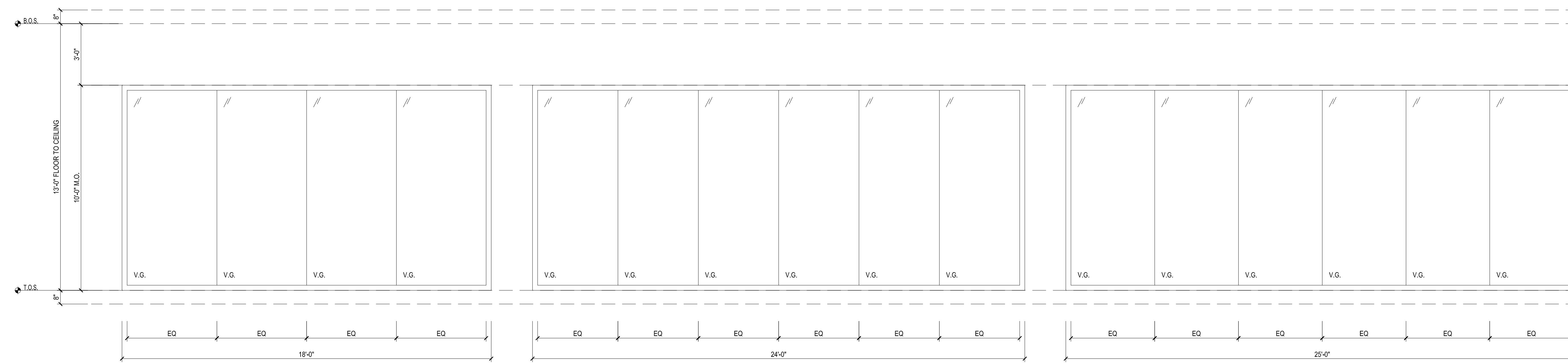
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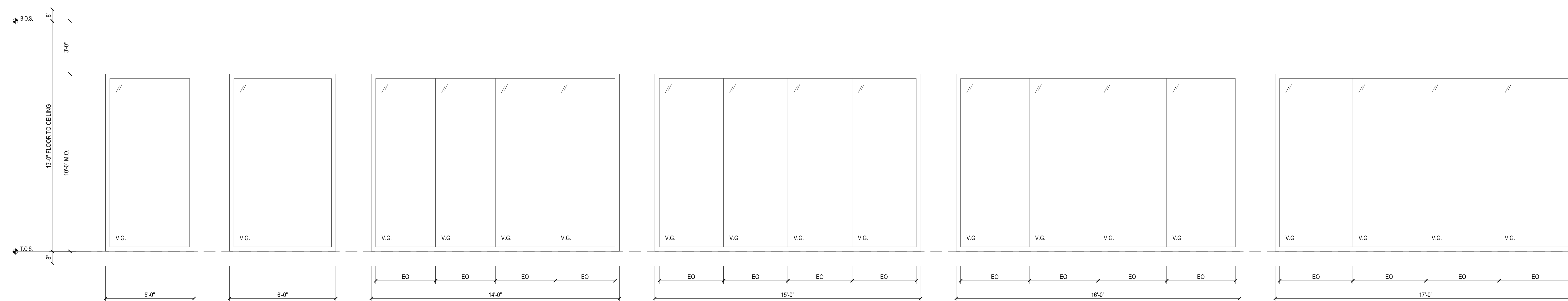
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13' - 8" FLOOR-TO-FLOOR HEIGHT - STOREFRONT

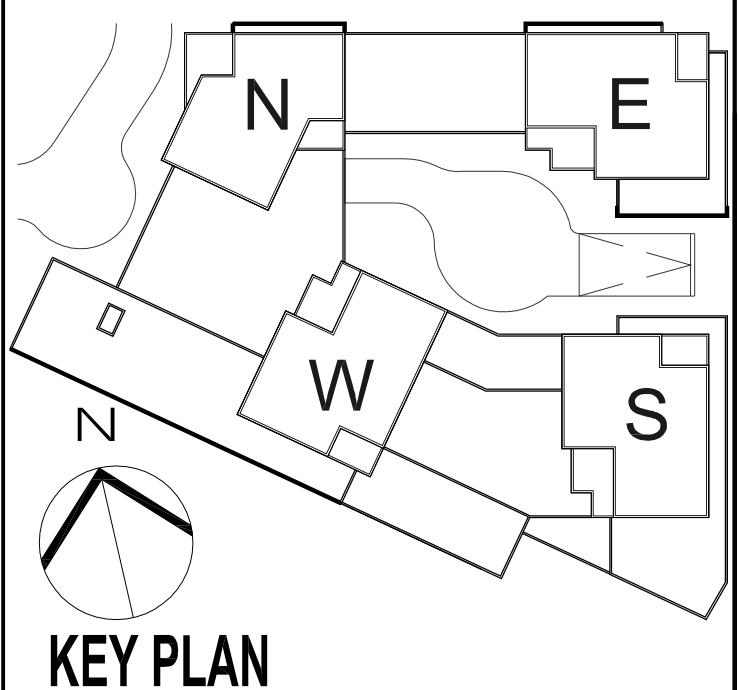


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**KEY**

- INSWING CASEMENT
- FIXED WINDOW
- FIXED WINDOW WITH SPANDREL GLASS

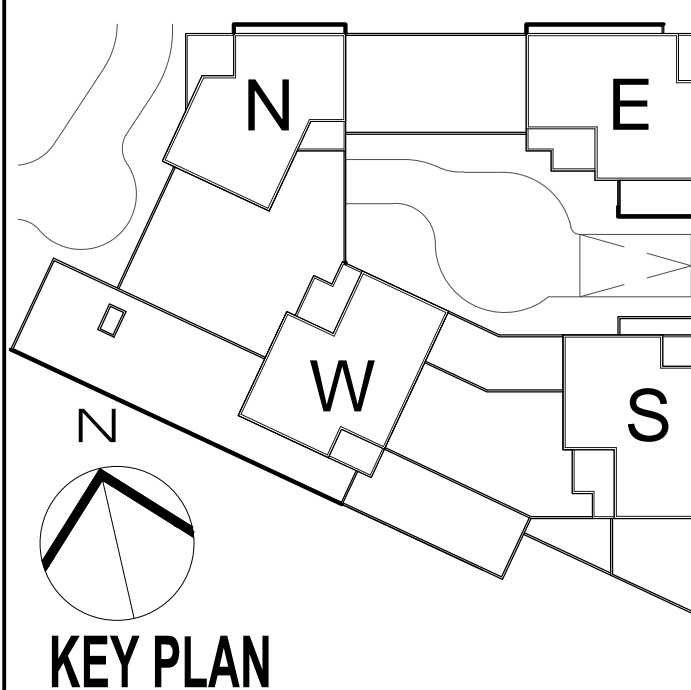


NOT FOR CONSTRUCTION

Number:	09012015	FOR SUBMISSION
Date:	09/01/2015	
OWNER:	THE CHETRIT GROUP LLC 512 7TH AVENUE, 15TH FL NEW YORK, NY 10018  SOMERSET PARTNERS LLC 450 PARK AVENUE, 25TH FL NEW YORK, NY 10022	
PROJECT:	SoBro - 101 LINCOLN AVENUE 101 LINCOLN AVENUE BRONX, NY 10451	
EXECUTIVE ARCHITECT:	 Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754	
STRUCTURAL ENGINEER:	DESIMONE CONSULTING ENGINEERS 18 W 18TH STREET, 10TH FLOOR NEW YORK, NY 10011	
ME/PFP ENGINEER:	VENTROP ENGINEERING CONSULTING GROUP, PLLC 365 W. 34TH STREET, 3RD FLOOR NEW YORK, NY 10001	
CIVIL ENGINEER:	AKRF 440 PARK AVENUE SOUTH NEW YORK, NY 10016	
LANDSCAPE ARCHITECT:	MPFP 120 BROADWAY, 20TH FLOOR NEW YORK, NY 10271	
SCHEMATIC ENGINEER:	PILLORI ASSOCIATE, P.A. 71 ROUTE 35 LAURENCE HARBOR, NJ 08879	
CONSULTANT:		
CONSULTANT:		
DOB BOARD:		
DOB STAMPS & SIGNATURES:		
DWG TITLE:	WINDOW SCHEDULE - 13' - 8" FLOOR-TO-FLOOR & STOREFRONT	
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DATE:	09/01/2015	
PROJECT #:	15408	
DWG NO.:		A-353.00
CAD FILE:	2115408 101 Lincoln Ave_S88a	
SHEET:	113 OF	130







KEY PLAN

NOT FOR CONSTRUCTION

Number	08/12/15	ISS SUBMISSION
Date		Revision

OWNER:  
 THE CHETREIT GROUP LLC  
 512 7TH AVENUE, 15TH FL  
 NEW YORK, NY 10018  
 SOMERSET PARTNERS LLC  
 450 PARK AVENUE, 25TH FL  
 NEW YORK, NY 10022

PROJECT:  
 SoBro - 101 LINCOLN AVENUE  
 101 LINCOLN AVENUE BRONX, NY 10451

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MEPP ENGINEER:  
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 CONSULTING GROUP, PLLC  
 365 W. 34TH STREET, 3RD FLOOR  
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CME ENGINEER:  
 AKRF  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016

LANDSCAPE ARCHITECT:  
 M/FPF  
 120 BROADWAY, 20TH FLOOR  
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GEOTECHNICAL ENGINEER:  
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 71 ROUTE 35  
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CONSULTANT:

CONSULTANT:

CONSULTANT:

CONSULTANT:

DOB SEAL:

DOB STAMPS & SIGNATURES:

DOB TITLE:

DOB TITLE:

DOB TITLE:

DOB TITLE:

TYPICAL  
 WALL SECTION DETAILS

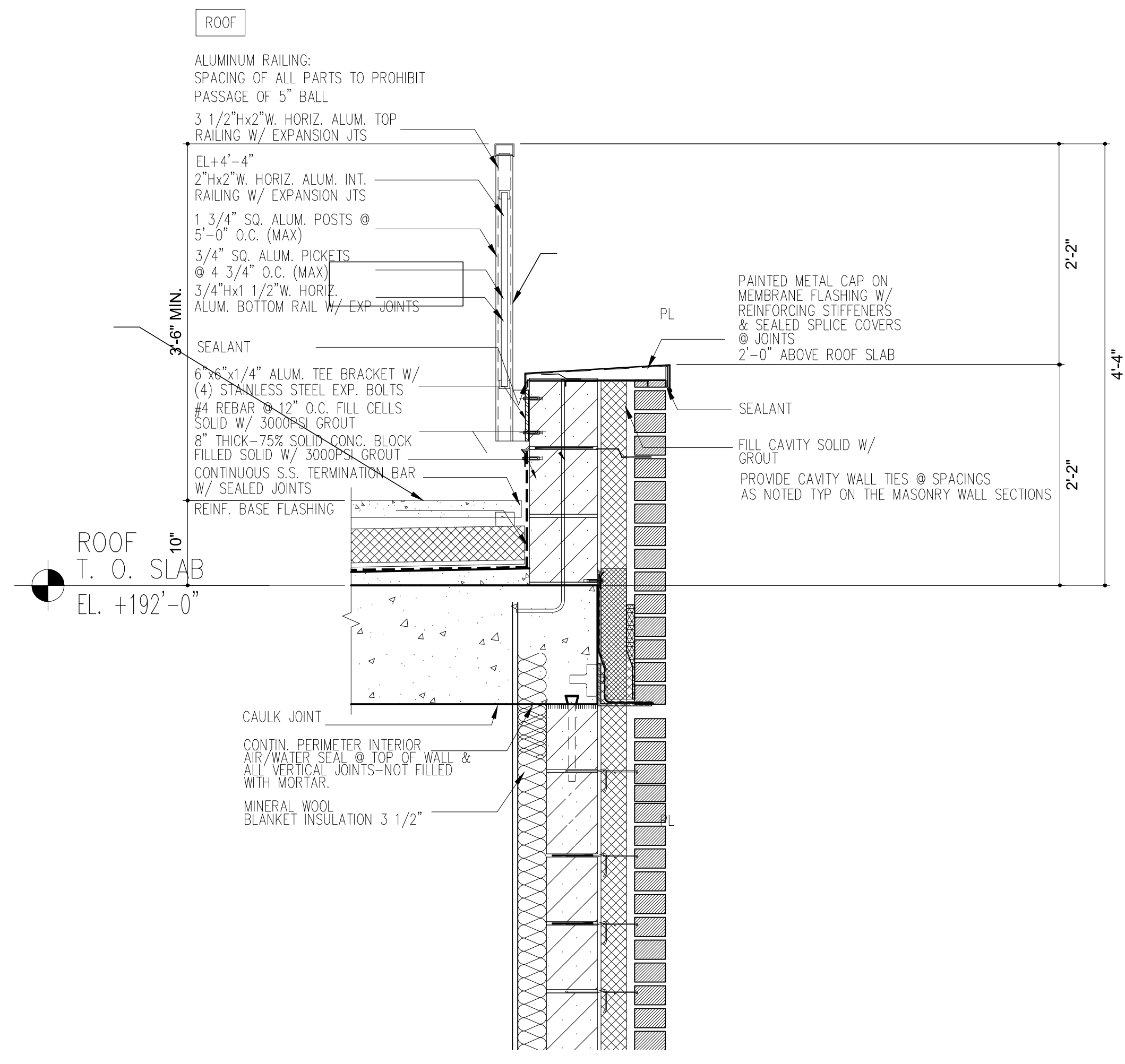
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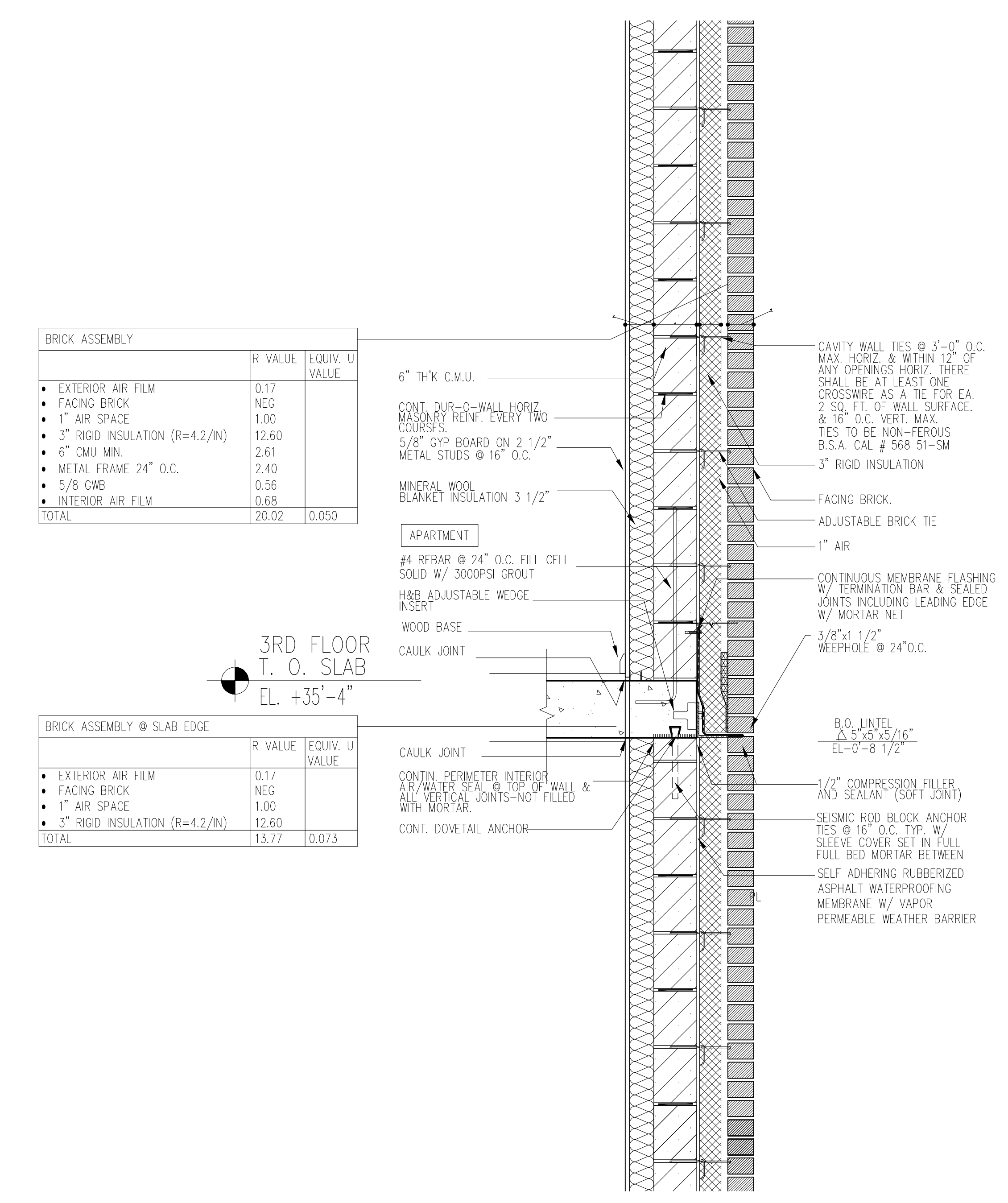
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NO. 117 OF 130



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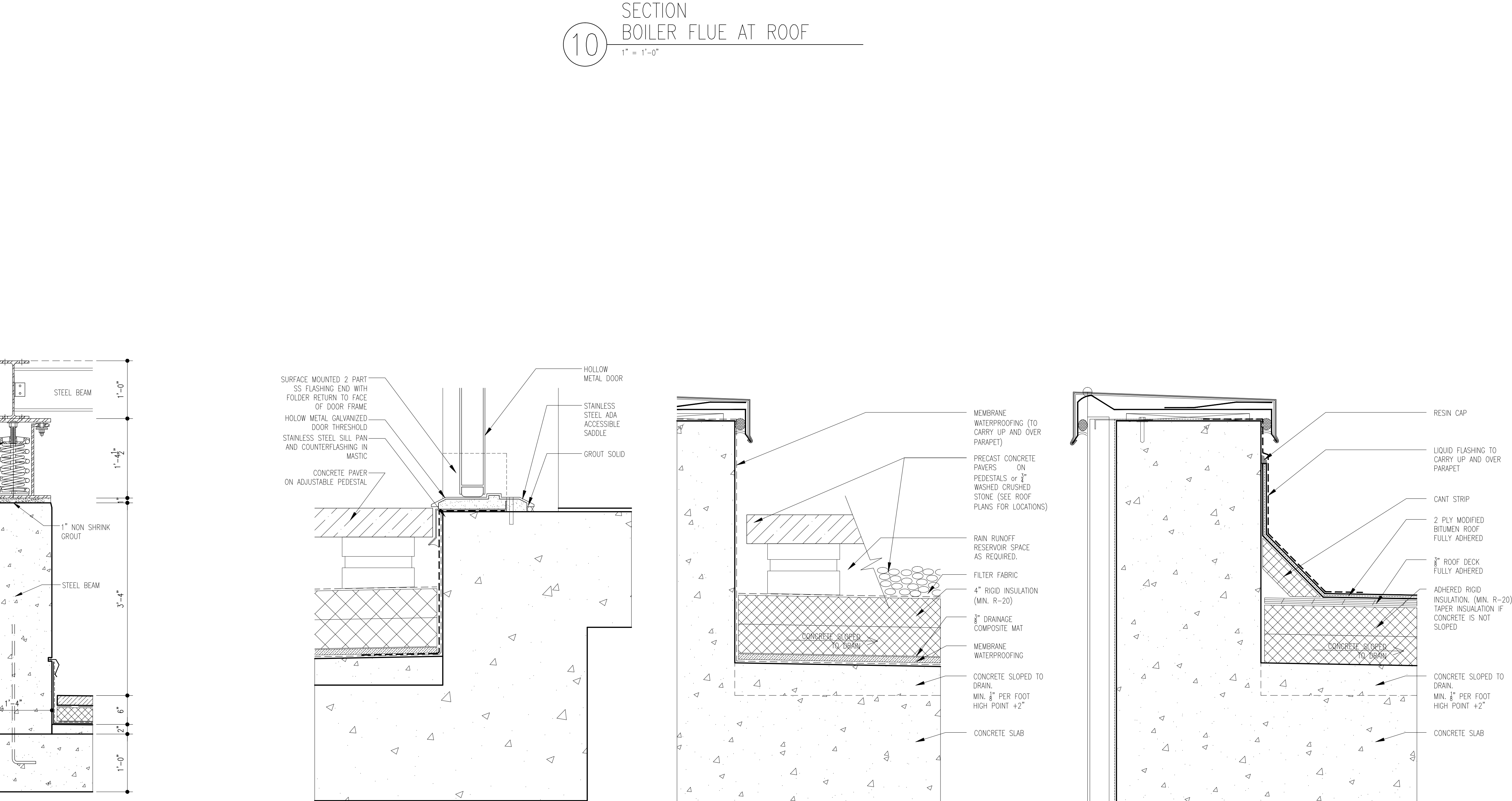
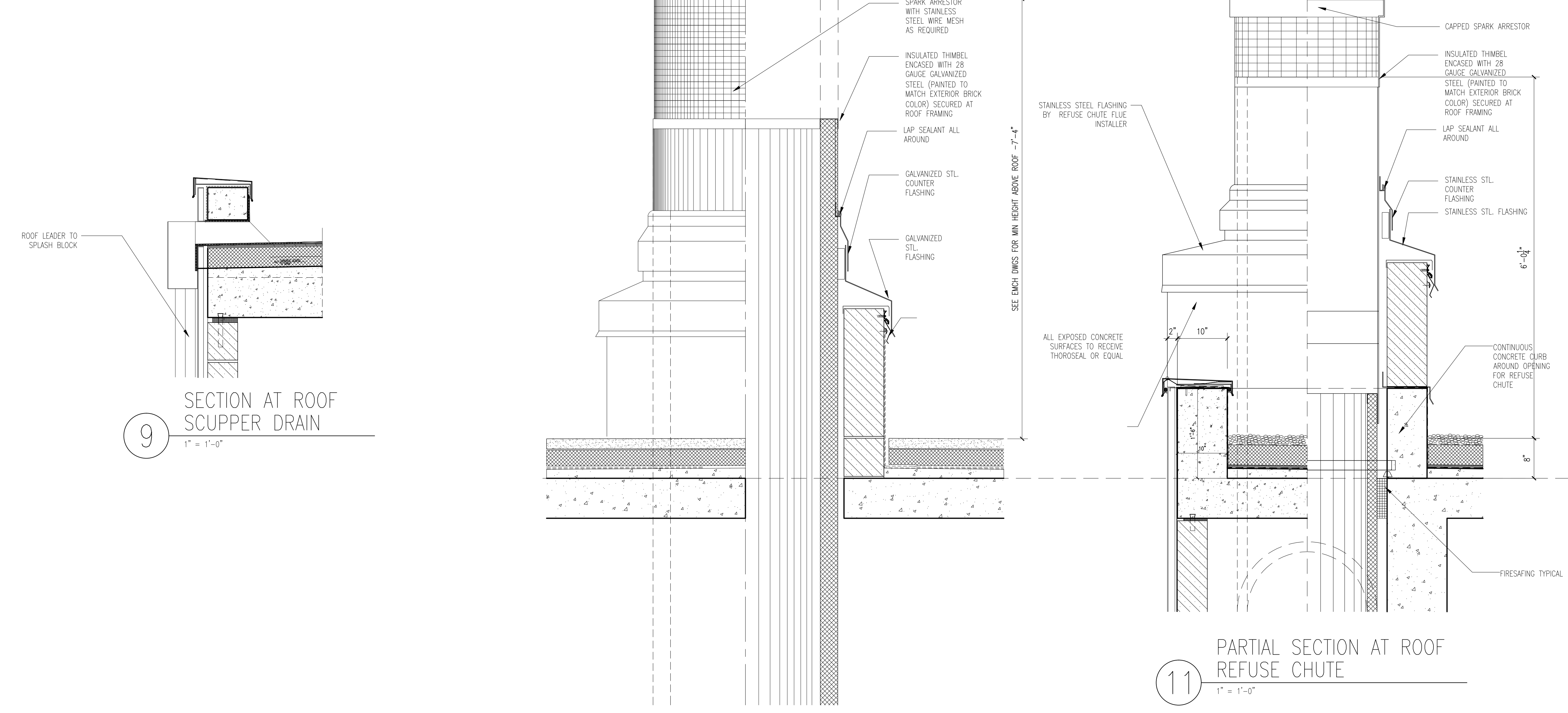
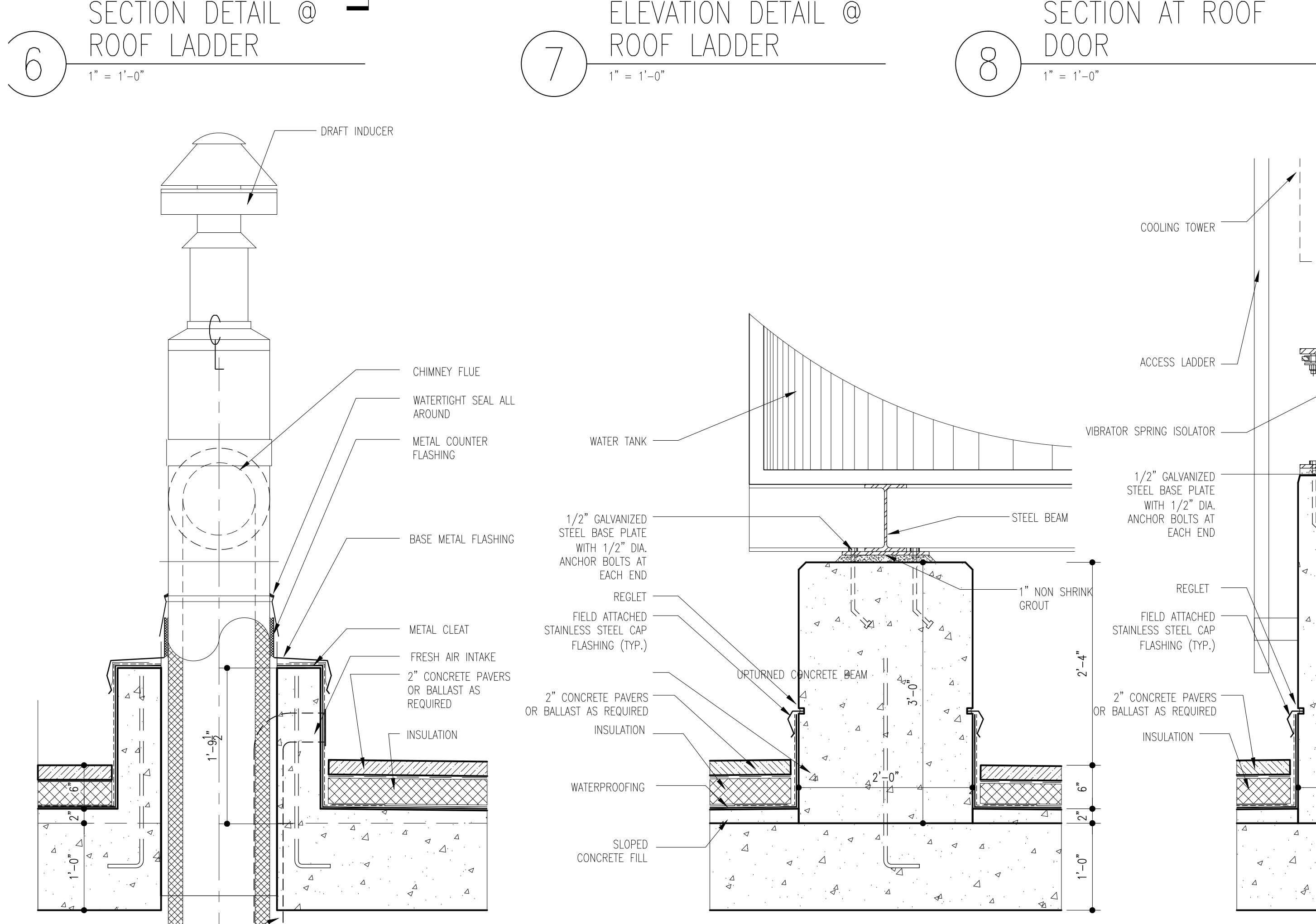
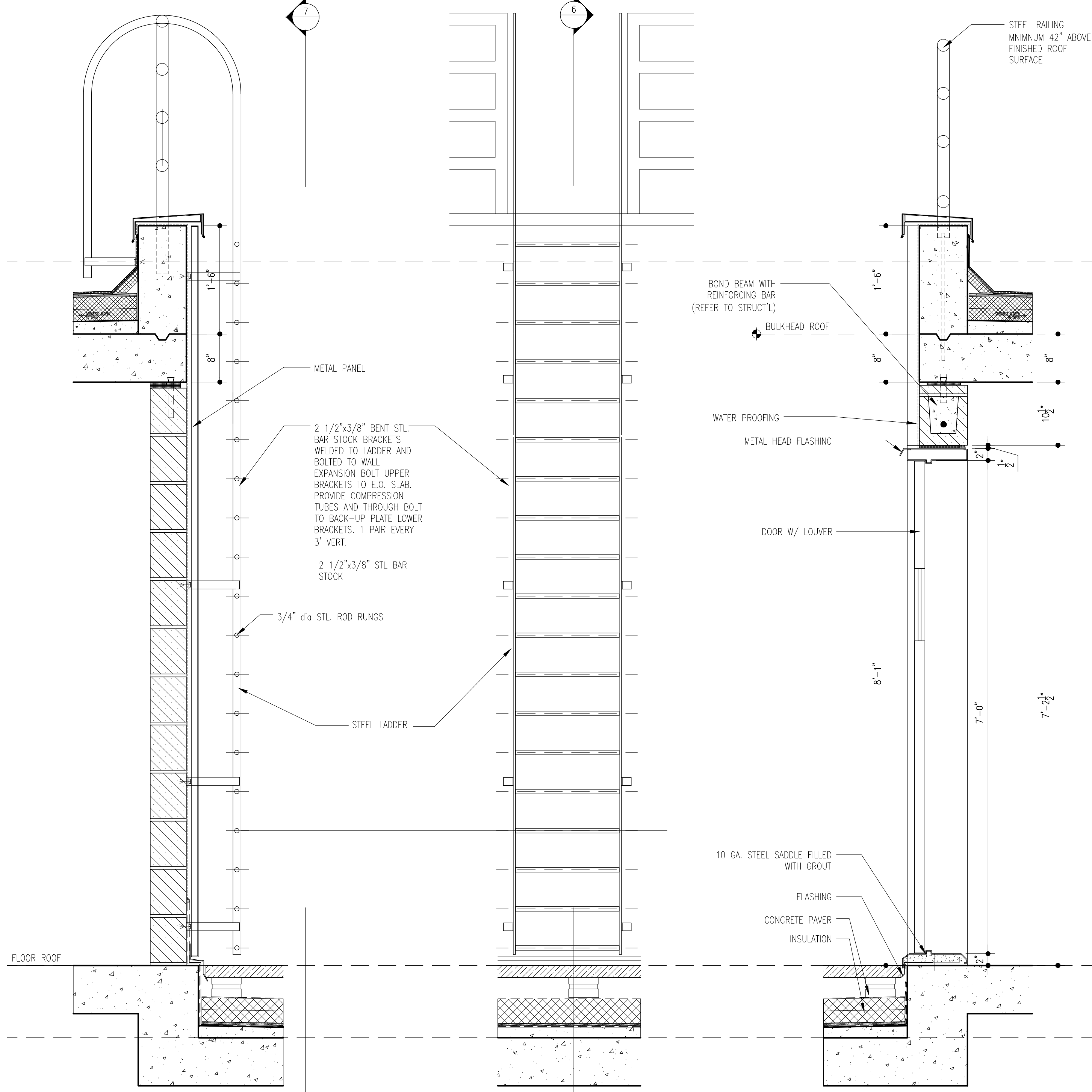
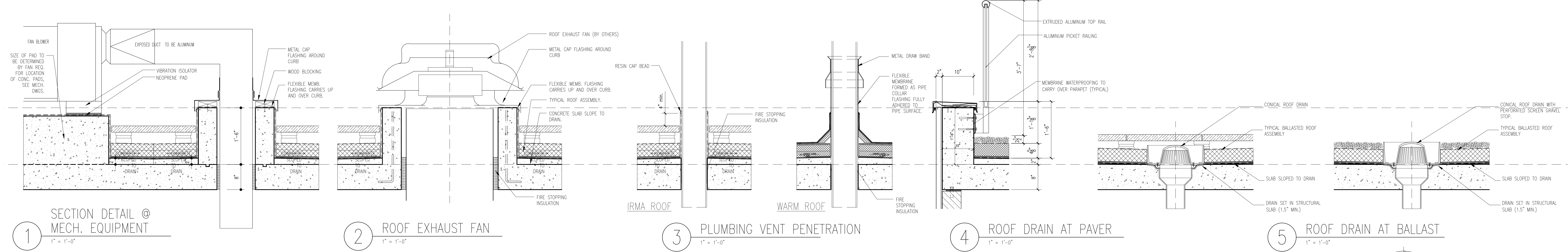
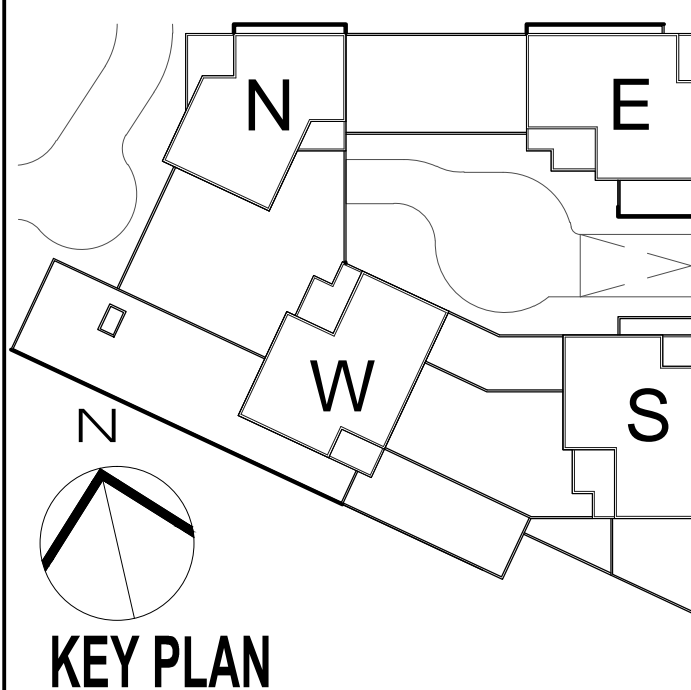


1 WALL SECTION @ BRICK  
 SCALE: 1" = 1'-0"

BRICK ASSEMBLY	R VALUE	EQUIV. U VALUE
EXTERIOR AIR FILM	0.17	
FACING BRICK	NEG	
1" AIR SPACE	1.00	
3" RIGID INSULATION (R=4.2/IN)	12.60	
6" CMU WALL	2.40	
METAL FRAME 24" O.C.	0.56	
5/8" GIB	0.68	
INTERIOR AIR FILM		0.050
TOTAL	20.02	0.050

BRICK ASSEMBLY @ SLAB EDGE	R VALUE	EQUIV. U VALUE
EXTERIOR AIR FILM	0.17	
FACING BRICK	NEG	
1" AIR SPACE	1.00	
3" RIGID INSULATION (R=4.2/IN)	12.60	
TOTAL	13.77	0.073





NOT FOR CONSTRUCTION

08/01/2015 DOB SUBMISSION  
 10.08.2014 THE CHETRIIT GROUP LLC  
 08.26.2014 DOB SUBMISSION - REVISION 3  
 09.12.2014 DOB SUBMISSION - REVISION 3  
 02.28.2015 DOB SUBMISSION - REVISION 3  
 08.09.2015 DOB SUBMISSION - REVISION 3

SoRo - 101 LINCOLN AVENUE  
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 NEW YORK, NY 10271

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 LAURENCE HARBOR, NJ 08879

CONSULTANT:

CONSULTANT:

DOB SEAN

DOB STAMPS & SIGNATURES:

DOB TITLE:

ROOF DETAILS

DATE: 08/01/2015  
 PROJECT #: 15406  
 SCALE: AS NOTED  
**A-420.00**  
 CAD FILE: 215406 101 Lincoln Av\_S80.dwg SHEET 118 OF 130



**APPENDIX B**  
**PHASE I SUMMARY**

**APPENDIX C**  
**HEALTH & SAFETY PLAN**

**101 Lincoln Avenue  
BRONX, NEW YORK  
Block 2316, Lots 1**

---

**INVESTIGATION  
HEALTH AND SAFETY PLAN**

OCTOBER 2015

*Prepared For:*

NY Developers  
1825 65<sup>th</sup> Street  
Brooklyn NY 11204

*Prepared By:*



**ENVIRONMENTAL BUSINESS**

1808 Middle Country Road  
Ridge, NY 11961

# HEALTH AND SAFETY PLAN

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### ***APPENDICES***

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APPENDIX B                      SITE SAFETY PLAN AMENDMENTS  
APPENDIX C                      CHEMICAL HAZARDS  
APPENDIX D                      HOSPITAL INFORMATION, MAP AND FIELD ACCIDENT REPORT

## **STATEMENT OF COMMITMENT**

This Health and Safety Plan (HASP) has been prepared to ensure that workers are not exposed to risks from hazardous materials during the planned Subsurface Investigation at the Site.

This HASP, which applies to persons present at the site actually or potentially exposed to hazardous materials, describes emergency response procedures for actual and potential chemical hazards. This HASP is also intended to inform and guide personnel entering the work area or exclusion zone. Persons are to acknowledge that they understand the potential hazards and the contents of this Health and Safety policy by signing off on receipt of their individual copy of the document. Contractors and suppliers are retained as independent contractors and are responsible for ensuring the health and safety of their own employees.

---

## 1.0 INTRODUCTION AND SITE ENTRY REQUIREMENTS

This document describes the health and safety guidelines developed by Environmental Business Consultants (EBC) for the subsurface investigation to be performed to protect on-site personnel, visitors, and the public from physical harm and exposure to hazardous materials or wastes during subsurface investigation activities. In accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120 Hazardous Waste Operations and Emergency Response Final rule, this HASP, including the attachments, addresses safety and health hazards related to subsurface sample collection activities and is based on the best information available. The HASP may be revised by EBC at the request of the client and/or a regulatory agency upon receipt of new information regarding site conditions. Changes will be documented by written amendments signed by EBC's project manager, site safety officer and/or the EBC health and safety consultant.

### 1.1 Training Requirements

Personnel entering the exclusion zone or decontamination zone are required to be certified in health and safety practices for hazardous waste site operations as specified in the Federal OSHA Regulations CFR 1910.120e (revised 3/6/90).

Paragraph (e - 3) of the above referenced regulations requires that all on-site management personnel directly responsible for or who supervise employees engaged in hazardous waste operations, must initially receive 8 hours of supervisor training related to managing hazardous waste work.

Paragraph (e - 8) of the above referenced regulations requires that workers and supervisors receive 8 hours of refresher training annually on the items specified in Paragraph (e-1) and/or (e-3).

Additionally all on-site personnel must receive adequate site-specific training in the form of an on-site Health and Safety briefing prior to participating in field work with emphasis on the following:

- Protection of the adjacent community from hazardous vapors and / or dust which may be released during intrusive activities.
- Identification of chemicals known or suspected to be present on-site and the health effects and hazards of those substances.
- The need for vigilance in personnel protection, and the importance of attention to proper use, fit and care of personnel protective equipment.
- Decontamination procedures.
- Site control including work zones, access and security.
- Hazards and protection against heat or cold.
- The proper observance of daily health and safety practices, such as entry and exit of work zones and site. Proper hygiene during lunch, break, etc.
- Emergency procedures to be followed in case of fire, explosion and sudden release of hazardous gases.

Health and Safety meetings will be conducted on a daily basis and will cover protective clothing and other equipment to be used that day, potential and chemical and physical hazards, emergency procedures, and conditions and activities from the previous day.

### 1.2 Site Safety Plan Acceptance, Acknowledgment and Amendments

The project superintendent and the site safety officer are responsible for informing personnel (EBC employees and/or owner or owners representatives) entering the work area of the contents of this plan and ensuring that each person signs the safety plan acknowledging the on-site hazards and procedures required to minimize exposure to adverse effects of these hazards. A copy of the Acknowledgement Form is included in **Appendix A**.

Site conditions may warrant an amendment to the HASP. Amendments to the HASP are acknowledged by completing forms included in **Appendix B**.

### 1.3 Key Personnel - Roles and Responsibilities

Personnel responsible for implementing this Health and Safety Plan are:

Name	Title	Address	Contact Numbers
Mrs. Chawinie Reilly	EBC Project Manager	1808 Middle Country Road Ridge, NY 11961	(631) 504-6000 (631) 827-5007
Mr. Kevin Waters	Site Safety Officer	1808 Middle Country Road Ridge, NY 11961	(631) 504-6000 (516) 287-9023

The project manager is responsible for overall project administration and, with guidance from the site safety officer, for supervising the implementation of this HASP. The site safety officer will conduct daily (tail gate or tool box) safety meetings at the project site and oversee daily safety issues. Each subcontractor and supplier (defined as an OSHA employer) is also responsible for the health and safety of its employees. If there is any dispute about health and safety or project activities, on-site personnel will attempt to resolve the issue. If the issue cannot be resolved at the site, then the project manager will be consulted.

The site safety officer is also responsible for coordinating health and safety activities related to hazardous material exposure on-site. The site safety officer is responsible for the following:

1. Educating personnel about information in this HASP and other safety requirements to be observed during site operations, including, but not limited to, decontamination procedures, designation of work zones and levels of protection, air monitoring, fit testing, and emergency procedures dealing with fire and first aid.
2. Coordinating site safety decisions with the project manager.
3. Designating exclusion, decontamination and support zones on a daily basis.
4. Monitoring the condition and status of known on-site hazards and maintaining and

implementing the air quality monitoring program specified in this HASP.

5. Maintaining the work zone entry/exit log and site entry/exit log.
6. Maintaining records of safety problems, corrective measures and documentation of chemical exposures or physical injuries (the site safety officer will document these conditions in a bound notebook and maintain a copy of the notebook on-site).

The person who observes safety concerns and potential hazards that have not been addressed in the daily safety meetings should immediately report their observations/concerns to the site safety officer or appropriate key personnel.

## 2.0 SITE BACKGROUND AND SCOPE OF WORK

A Remedial Investigation is being conducted at the site to identify and characterize potential contaminants within the surface/subsurface soils, groundwater and soil gas at the site.

The results from this investigation will help determine what actions may be required, if any, to prevent exposure to contaminants from the change in use of the site. The work will be conducted in accordance with the procedures as required by the Environmental Review Process as administered by the New York City Department of Environmental Protection (DEP).

### 2.1 Remedial Investigation Scope

The subsurface investigation will include the installation of soil borings, groundwater wells and / or soil vapor implants. Site sampling locations are shown on **Figures 3-4** of the Investigation Work Plan.

Soil borings will be advanced with Geoprobe direct push equipment and sampled with a 4 or 5 foot macro core sampler using disposable acetate liners. Soil will be characterized by a hydrogeologist or environmental technician and field screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). Retained samples from each boring will be submitted to a New York State Department of Health ELAP-certified laboratory for analysis.

The groundwater samples will be collected by installing a temporary monitoring well approximately 5 feet below the water table. Soil gas samples will be collected through the installation of soil vapor probes to a depth of 6 ft.



### **3.0 SITE HAZARD EVALUATION**

This section identifies the hazards associated with the proposed scope of work, general physical hazards that can be expected at most sites; and presents a summary of documented or potential chemical hazards at the site. Every effort must be made to reduce or eliminate these hazards. Those that cannot be eliminated must be guarded against using engineering controls and/or personal protective equipment.

This HASP has been developed for work performed at the site in association with a Phase II subsurface investigation. The primary hazards to the field crew will be physical hazards related to sample collection procedures and equipment, and chemical exposures to the sampling crew from exposure to potential contaminants which may be present at the site.

#### **3.1 Physical Hazards**

##### *3.1.1 Tripping Hazards*

An area of risk associated with on-site activities are presented by uneven ground, concrete, curbstones or equipment which may be present at the site thereby creating a potential tripping hazard. During intrusive work, care should be taken to mark or remove any obstacles within the exclusion zone.

##### *3.1.2 Cuts and Lacerations*

Field activities that involve drilling and boring equipment may result in cuts or lacerations from machinery and tools used in collecting samples, cutting disposable tubing and opening acetate sleeves and liners. A first aid kit approved by the American Red Cross will be available during all subsurface investigative activities.

##### *3.1.3 Lifting Hazards*

Improper lifting by workers is one of the leading causes of industrial injuries. Field workers and drillers may be required to lift heavy objects such as drilling tools, buckets of decontamination water, cement, etc. Therefore, all members of the field crew should be trained in the proper methods of lifting heavy objects. All workers should be cautioned against lifting objects too heavy for one person.

##### *3.1.4 Utility Hazards*

Before conducting any subsurface boring or sampling, the drilling contractor will be responsible for locating and verifying all existing utilities at each excavation.

##### *3.1.5 Traffic Hazards*

All traffic, vehicular and pedestrian, shall be maintained and protected at all times consistent with local, state and federal agency regulations regarding such traffic and in accordance with NYCDOT guidelines. The drilling contractor shall carry on his operations without undue interference or delays to traffic. The drilling contractor shall furnish all labor, materials, guards, barricades, signs, lights, and anything else necessary to maintain traffic and to protect his work and the public, during operations.

## 3.2 Work in Extreme Temperatures

Work under extremely hot or cold weather conditions requires special protocols to minimize the chance that employees will be affected by heat or cold stress.

### 3.2.1 Heat Stress

The combination of high ambient temperature, high humidity, physical exertion, and personal protective apparel, which limits the dissipation of body heat and moisture, can cause heat stress.

The following prevention, recognition and treatment strategies will be implemented to protect personnel from heat stress. Personnel will be trained to recognize the symptoms of heat stress and to apply the appropriate treatment.

#### 1. Prevention

- a. Provide plenty of fluids. Available in the support zone will be a 50% solution of fruit punch and water or plain water.
- b. Work in Pairs. Individuals should avoid undertaking any activity alone.
- c. Provide cooling devices. A spray hose and a source of water will be provided to reduce body temperature, cool protective clothing and/or act as a quick-drench shower in case of an exposure incident.
- d. Adjustment of the work schedule. As is practical, the most labor-intensive tasks should be carried out during the coolest part of the day.

#### 2. Recognition and Treatment

##### a. Heat Rash (or prickly heat):

Cause: Continuous exposure to hot and humid air, aggravated by chafing clothing.

Symptoms: Eruption of red pimples around sweat ducts accompanied by intense itching and tingling.

Treatment: Remove source of irritation and cool skin with water or wet cloths.

##### b. Heat Cramps (or heat prostration)

Cause: Profuse perspiration accompanied by inadequate replenishment of body water and electrolytes.

Symptoms: Muscular weakness, staggering gait, nausea, dizziness, shallow breathing, pale and clammy skin, approximately normal body temperature.

Treatment: Perform the following while making arrangement for transport to a medical facility. Remove the worker to a contamination reduction zone. Remove protective clothing. Lie worker down on back in a cool place and raise feet 6 to 12 inches. Keep warm, but loosen all clothing. If conscious, provide sips of salt-water solution, using one teaspoon of salt in 12 ounces of water. Transport to a medical facility.

##### c. Heat Stroke

Cause: Same as heat exhaustion. This is also an extremely serious condition.

- Symptoms: Dry and hot skin, dry mouth, dizziness, nausea, headache and rapid pulse.
- Treatment: Cool worker immediately by immersing or spraying with cool water or sponge bare skin after removing protective clothing. Transport to hospital.

### 3.2.2 Cold Exposure

Exposure to cold weather, wet conditions and extreme wind-chill factors may result in excessive loss of body heat (hypothermia) and /or frostbite. To guard against cold exposure and to prevent cold injuries, appropriate warm clothing should be worn, warm shelter must be readily available, rest periods should be adjusted as needed, and the physical conditions of on-site field personnel should be closely monitored. Personnel and supervisors working on-site will be made aware of the signs and symptoms of frost bite and hypothermia such as shivering, reduced blood pressure, reduced coordination, drowsiness, impaired judgment, fatigue, pupils dilated but reactive to light and numbing of the toes and fingers.

### 3.3 Chemical Hazards

There is no documented contamination at the Site, however, urban fill, present throughout the New York City area, typically contains elevated levels of semi-volatile organic compounds and metals. These "contaminants" are not related to a chemical release occurring on the site, but are inherent in the reworked fill material in the area which contains ash bits or tar and asphalt.

Based on the long history of use of the property for residential, and the inherent properties of urban fill, the following compounds are considered for the site as potential contaminants: semi-volatile organic compounds (SVOCs) related to minor petroleum fuel spills and / or inherent in historic fill, pesticides related to historic use of the site, and heavy metals such as arsenic, chromium, lead and mercury related to historic fill materials.

In addition to the expected fill material, the property was also used for a time by Vartex Instrument Corp., which was known to use chlorinated solvents including trichloroethylene. Therefore chlorinated solvents are also concern at this site.

The primary routes of exposure to these contaminants are inhalation, ingestion and absorption. **Appendix C** includes information sheets for suspected chemicals that may be encountered at the site.

#### 3.3.1 Respirable Dust and Direct Contact with Soil and Groundwater

Dust may be generated from drilling activities. If visible observation detects elevated levels of dust, a program of wetting will be employed by the site safety officer. If elevated dust levels persist, the site safety office will employ dust monitoring using a particulate monitor (Miniram or equivalent). If monitoring detects concentrations greater than the OSHA action level of 100  $\mu\text{g}/\text{m}^3$  over daily background, the site safety officer will take corrective actions as defined herein, including the use of water for dust suppression and if this is not effective, requiring workers to wear APRs with efficiency particulate air (HEPA) cartridges.

Absorption pathways for dust and direct contact with soil and groundwater will be mitigated with the implementation of latex gloves, hand washing and decontamination exercises when necessary.

### 3.3.2 Organic Vapors

Considering the past and present use of the properties, VOCs may be encountered at the site in soil and/or groundwater. Therefore, soil boring activities may cause the release of organic vapors to the atmosphere. The site safety officer will periodically monitor organic vapors with a Photoionization Detector (PID) during drilling activities to determine whether organic vapor concentrations exceed action levels shown below.

PID Response	Action
Sustained readings of 5 ppm or greater	Shut down equipment and allow area to vent. Resume when readings return to background
Sustained readings of 5 ppm or greater that do not subside after venting	Implement Vapor Release Plan (Section 6.8). Re-evaluate respiratory protection as upgrade may be required.

## 4.0 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) shall be selected in accordance with the site air monitoring program, OSHA 29 CFR 1910.120(c), (g), and 1910.132. Protective equipment shall be NIOSH approved and respiratory protection shall conform to OSHA 29 CFR Part 1910.133 and 1910.134 specifications; head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133; and foot protection shall conform to 1910.136. The only true difference among the levels of protection from D thru B is the addition of the type of respiratory protection. **It is anticipated that work will be performed in Level D PPE.**

### 4.1 Level D

Level D PPE shall be donned when the atmosphere contains no known hazards and work functions preclude splashes, immersion, or the potential for inhalation of, or contact with, hazardous concentrations of harmful chemicals. Level D PPE consists of:

- standard work uniform, coveralls, or tyvek, as needed;
- steel toe and steel shank work boots;
- high visibility safety vest;
- hard hat;
- gloves, as needed;
- safety glasses;
- hearing protection;
- equipment replacements are available as needed.

### 4.2 Level C

Level C PPE shall be donned when the concentrations of measured total organic vapors in the breathing zone exceed background concentrations (using a portable OVA, or equivalent), but are less than 5 ppm. The specifications on the APR filters used must be appropriate for contaminants identified or expected to be encountered. Level C PPE shall be donned when the identified contaminants have adequate warning properties and criteria for using APR have been met. Level C PPE consists of:

- chemical resistant or coated tyvek coveralls;
- steel-toe and steel-shank workboots;
- high visibility safety vest;
- chemical resistant overboots or disposable boot covers;
- disposable inner gloves (surgical gloves);
- disposable outer gloves;
- full face APR fitted with organic vapor/dust and mist filters or filters appropriate for the identified or expected contaminants;
- hard hat;
- splash shield, as needed; and,
- ankles/wrists taped with duct tape.

The site safety officer will verify if Level C is appropriate by checking organic vapor concentrations using compound and/or class-specific detector tubes.

The exact PPE ensemble is decided on a site-by-site basis by the Site Safety Officer with the intent to provide the most protective and efficient worker PPE.

### 4.3 Activity-Specific Levels of Personal Protection

The required level of PPE is activity-specific and is based on air monitoring results (Section 4.0) and properties of identified or expected contaminants. **It is expected that site work will be performed in Level D.** If air monitoring results indicate the necessity to upgrade (i.e. dust above 5,000  $\mu\text{g}/\text{m}^3$  or sustained VOCs above 5 ppm in the breathing zone) the level of protection engineering controls (i.e. Facing equipment away from the wind and placing site personnel upwind of excavations, active venting, etc.) will be implemented before requiring the use of respiratory protection.



## 5.0 SITE CONTROL

### 5.1 Work Zones

The primary purpose of site controls is to establish the perimeter of a hazardous area, to reduce the migration of contaminants into clean areas, and to prevent access or exposure to hazardous materials by unauthorized persons. When operations are to take place involving hazardous materials, the site safety officer will establish an exclusion zone, a decontamination zone, and a support zone. These zones "float" (move around the site) depending on the tasks being performed on any given day. The site safety officer will outline these locations before work begins and when zones change. The site safety officer records this information in the site log book. **It is expected that for soil boring and sampling activities, identification of an exclusion zone, decontamination zone, and support zone will not be necessary.**

Tasks requiring OSHA 40-hour Hazardous Waste Operations and Emergency Response Operations training are carried out in the exclusion zone. The exclusion zone is defined by the site safety officer but will typically be a 50-foot area around work activities. Gross decontamination (as determined by the site Health and Safety Officer) is conducted in the exclusion zone; all other decontamination is performed in the decontamination zone or trailer.

Protective equipment is removed in the decontamination zone. Disposable protective equipment is stored in receptacles staged in the decontamination zone, and non-disposable equipment is decontaminated. All personnel and equipment exit the exclusion zone through the decontamination zone. If a decontamination trailer is provided the first aid equipment, an eye wash unit, and drinking water are kept in the decontamination trailer.

The support zone is used for vehicle parking, daily safety meetings, and supply storage. Eating, drinking, and smoking are permitted only in the support zone. When a decontamination trailer is not provided, the eye wash unit, first aid equipment, and drinking water are kept at a central location designated by the site safety officer.

## 6.0 CONTINGENCY PLAN/EMERGENCY RESPONSE PLAN

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

Emergency telephone numbers and a map to the hospital will be posted in the command post. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

### 6.1 Emergency Equipment On-site

Private telephones:	Site personnel.
Two-way radios:	Site personnel where necessary.
Emergency Alarms:	On-site vehicle horns*.
First aid kits:	On-site, in vehicles or office.
Fire extinguisher:	On-site, in office or on equipment.

\* Horns: Air horns will be supplied to personnel at the discretion of the project superintendent or site safety officer.

### 6.2 Emergency Telephone Numbers

General Emergencies	911
New York City Police	911
Lincoln Medical and Mental Health Center	1-718-579-5016
NYSDEC Spills Division	1-800-457-7362
NYSDEC Division of Env. Remediation	1-718-482-4900
NYCDEP	1-718-699-9811
NYC Department of Health	1-212-788-4711
NYC Fire Department	911
National Response Center	1-800-424-8802
Poison Control	1-212-340-4494
Site Safety Officer	1-631-504-6000
Alternate Site Safety Officer	1-631-504-6000

### 6.3 Personnel Responsibilities During an Emergency

The project manager is primarily responsible for responding to and correcting any emergency situations. However, in the absence of the project manager, the site safety officer shall act as the project manager's on-site designee and perform the following tasks:

- Take appropriate measures to protect personnel including: withdrawal from the exclusion zone, evacuate and secure the site, or upgrade/downgrade the level of protective clothing and respiratory protection;

- Ensure that appropriate federal, state, and local agencies are informed and emergency response plans are coordinated. In the event of fire or explosion, the local fire department should be summoned immediately. If toxic materials are released to the air, the local authorities should be informed in order to assess the need for evacuation;
- Ensure appropriate decontamination, treatment, or testing for exposed or injured personnel;
- Determine the cause of incidents and make recommendations to prevent recurrence; and,
- Ensure that all required reports have been prepared.

The following key personnel are planned for this project:

- Project Manager                      Mrs. Chawinie Reilly (631) 504-6000
- Site Safety Officer                      Mr. Kevin Waters (631) 504-6000

#### **6.4 Medical Emergencies**

A person who becomes ill or injured in the exclusion zone will be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination will be completed and first aid administered prior to transport. First aid will be administered while waiting for an ambulance or paramedics. A Field Accident Report (**Appendix D**) must be filled out for any injury.

A person transporting an injured/exposed person to a clinic or hospital for treatment will take the directions to the hospital (**Appendix D**) and information on the chemical(s) to which they may have been exposed (**Appendix C**).

#### **6.5 Fire or Explosion**

In the event of a fire or explosion, the local fire department will be summoned immediately. The site safety officer or his designated alternate will advise the fire commander of the location, nature and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- use fire fighting equipment available on site; or,
- remove or isolate flammable or other hazardous materials that may contribute to the fire.

#### **6.6 Evacuation Routes**

Evacuation routes established by work area locations for each site will be reviewed prior to commencing site operations. As the work areas change, the evacuation routes will be altered accordingly, and the new route will be reviewed.

Under extreme emergency conditions, evacuation is to be immediate without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site, personnel will follow these instructions:

- Keep upwind of smoke, vapors, or spill location.
- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, personnel should remove contaminated clothing once they are in a safe location and leave it near the exclusion zone or in a safe place.
- The site safety officer will conduct a head count to ensure that all personnel have been evacuated safely. The head count will be correlated to the site and/or exclusion zone entry/exit log.
- If emergency site evacuation is necessary, all personnel are to escape the emergency situation and decontaminate to the maximum extent practical.

## **6.7 Spill Control Procedures**

Spills associated with site activities may be attributed to project equipment and include gasoline, diesel and hydraulic oil. In the event of a leak or a release, site personnel will inform their supervisor immediately, locate the source of spillage and stop the flow if it can be done safely. A spill containment kit including absorbent pads, booms and/or granulated speedy dry absorbent material will be available to site personnel to facilitate the immediate recovery of the spilled material. Daily inspections of site equipment components including hydraulic lines, fuel tanks, etc. will be performed by their respective operators as a preventative measure for equipment leaks and to ensure equipment soundness. In the event of a spill, site personnel will immediately notify the NYSDEC (1-800-457-7362), and a spill number will be generated.

## **6.8 Vapor Release Plan**

If work zone organic vapor (excluding methane) exceeds 5 ppm, then a downwind reading will be made either 200 feet from the work zone or at the property line, whichever is closer. If readings at this location exceed 5 ppm over background, the work will be stopped.

If 5 ppm of VOCs are recorded over background on a PID at the property line, then an off-site reading will be taken within 20 feet of the nearest residential or commercial property, whichever is closer. If efforts to mitigate the emission source are unsuccessful for 30 minutes, then the designated site safety officer will:

- contact the local police;
- continue to monitor air every 30 minutes, 20 feet from the closest off-site property. If

two successive readings are below 5 ppm (non-methane), off-site air monitoring will be halted.

- All property line and off site air monitoring locations and results associated with vapor releases will be recorded in the site safety log book.

***APPENDIX A***  
***SITE SAFETY ACKNOWLEDGEMENT FORM***



### DAILY BRIEFING SIGN-IN SHEET

Date: \_\_\_\_\_ Person Conducting Briefing: \_\_\_\_\_

Project Name and Location: \_\_\_\_\_

1. AWARENESS (topics discussed, special safety concerns, recent incidents, etc...):

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2. OTHER ISSUES (HASP changes, attendee comments, etc...):

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3. ATTENDEES (Print Name):

1.	11.
2.	12.
3.	13.
4.	14.
5.	15.
6.	16.
7.	17.
8.	18.
9.	19.

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10.	20.
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***APPENDIX B***  
***SITE SAFETY PLAN AMENDMENTS***



**SITE SAFETY PLAN AMENDMENT FORM**

Site Safety Plan Amendment #: \_\_\_\_\_

Site Name: \_\_\_\_\_

Reason for Amendment: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Alternative Procedures: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Required Changes in PPE: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Project Superintendent (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Health and Safety Consultant (signature)

\_\_\_\_\_  
Date

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Site Safety Officer (signature)

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Date

# *APPENDIX C*

## *CHEMICAL HAZARDS*

### CHEMICAL HAZARDS

The attached International Chemical Safety Cards are provided for contaminants of concern that have been identified in soils and/or groundwater at the site.



# International Chemical Safety Cards

## 1,1,1,2-TETRACHLOROETHANE

ICSC: 1486



$C_2H_2Cl_4 / Cl_3CCH_2Cl$   
Molecular mass: 167.8

ICSC # 1486  
CAS # 630-20-6  
RTECS # [K18450000](#)  
UN # 1702  
April 23, 2004 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in a fire.	NO contact with hot surfaces. NO open flames.	In case of fire in the surroundings: powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
• <b>INHALATION</b>	Headache. Nausea. Shortness of breath. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
• <b>SKIN</b>	Redness. Burning sensation. Pain.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Headache. Nausea.	Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Refer for medical attention. Give plenty of water to drink.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking liquid in covered containers. Absorb remaining liquid in dry sand or inert absorbent and remove to safe place. Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment.	Separated from strong oxidants, strong bases. Well closed.	Do not transport with food and feedstuffs. UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1486**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards


## 1,1,1,2-TETRACHLOROETHANE

ICSC: 1486

I

<p><b>M</b></p> <p><b>P</b></p> <p><b>O</b></p> <p><b>R</b></p> <p><b>T</b></p> <p><b>A</b></p> <p><b>N</b></p> <p><b>T</b></p> <p><b>D</b></p> <p><b>A</b></p> <p><b>T</b></p> <p><b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW TO RED LIQUID .</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic and corrosive gases including hydrogen chloride . Reacts with strong bases and strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established. OSHA PEL: none NIOSH REL: Handle with caution in the workplace. <a href="#">See Appendix C</a> (Chloroethanes) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by ingestion and by inhalation.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin . The substance may cause effects on the central nervous system .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 130.5°C Melting point: -70.2°C Relative density (water = 1): 1.54	Solubility in water, g/100 ml at 25°C: 0.11 Vapour pressure, kPa at 25°C: 1.9 Octanol/water partition coefficient as log Pow: 2.66
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<b>ENVIRONMENTAL DATA</b>	The substance is harmful to aquatic organisms.	
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**NOTES**

See ICSC 0332 1,1,2,2,-Tetrachloroethane.

Transport Emergency Card: TEC (R)-61GT1-II

**ADDITIONAL INFORMATION**

<b>ICSC: 1486</b>	<b>1,1,1,2-TETRACHLOROETHANE</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

## 1,1,1-TRICHLOROETHANE

ICSC: 0079



Methyl chloroform  
 Methyltrichloromethane  
 alpha-Trichloroethane  
 $C_2H_3Cl_3 / CCl_3CH_3$   
 Molecular mass: 133.4

ICSC # 0079  
 CAS # 71-55-6  
 RTECS # [KJ2975000](#)  
 UN # 2831  
 EC # 602-013-00-2  
 April 19, 2007 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Heating will cause rise in pressure with risk of bursting. Gives off irritating or toxic fumes (or gases) in a fire. See Notes.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Cough. Sore throat. Headache. Dizziness. Drowsiness. Nausea. Ataxia. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Nausea. Vomiting. Abdominal pain. Diarrhoea. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Rinse mouth. Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: self-contained breathing apparatus. Ventilation. Collect leaking and spilled liquid in sealable, suitable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.	Separated from food and feedstuffs and strong oxidants, aluminium, manganese and zinc. Cool. Dry. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Note: F Xn symbol N symbol R: 20-59 S: 2-24/25-59-61 UN Hazard Class: 6.1 UN Packing Group: III Signal: Warning

Excl mark-Health haz  
 Causes mild skin irritation  
 Causes eye irritation  
 May cause drowsiness or dizziness  
 May cause damage to cardiovascular system if inhaled  
 Harmful to aquatic life

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0079**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,1,1-TRICHLOROETHANE

**ICSC: 0079**

<p><b>I M P O R T A N T I N F O R M A T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b>                  The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b>                  The substance decomposes on burning, producing toxic and corrosive fumes . Reacts violently with aluminium and its alloys with magnesium, bases , strong oxidants , acetone, and zinc</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV: 350 ppm as TWA, 450 ppm as STEL; A4 (not classifiable as a human carcinogen); BEI issued (ACGIH 2006).                  MAK: 200 ppm, 1100 mg/m<sup>3</sup>;                  Peak limitation category: II(1);                  skin absorption (H);                  Pregnancy risk group: C;                  (DFG 2006).                  OSHA PEL<sup>±</sup>: TWA 350 ppm (1900 mg/m<sup>3</sup>)                  NIOSH REL: C 350 ppm (1900 mg/m<sup>3</sup>) 15-minute <a href="#">See Appendix C</a> (Chloroethanes)                  NIOSH IDLH: 700 ppm See: <a href="#">71556</a></p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation of its vapour and by ingestion.</p> <p><b>INHALATION RISK:</b>                  A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance is mildly irritating to the eyes , the respiratory tract and the skin . The substance may cause effects on the central nervous system , resulting in lowering of consciousness . Exposure at high levels may result in cardiac dysrhythmia.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The liquid defats the skin.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 74°C Melting point: -30°C Relative density (water = 1): 1.34 Solubility in water: (poor) Vapour pressure, kPa at 20°C: 13.3	Relative vapour density (air = 1): 4.6 Flash point: see Notes Auto-ignition temperature: 537°C Explosive limits, vol% in air: 8-16 Octanol/water partition coefficient as log Pow: 2.49
<b>ENVIRONMENTAL DATA</b>	The substance is harmful to aquatic organisms.	



**NOTES**

Combustible vapour/air mixtures difficult to ignite, may be developed under certain conditions. The substance burns only in excess oxygen or if a strong source of ignition is present. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is suggested. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert.

Transport Emergency Card: TEC (R)-61S2831 or 61GTI-III

NFPA Code: H2; F1; R0

Card has been partially updated in February 2009: see Chemical Dangers.

**ADDITIONAL INFORMATION**

**ICSC: 0079**

**1,1,1-TRICHLOROETHANE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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# International Chemical Safety Cards

## 1,1,2,2-TETRACHLOROETHANE

ICSC: 0332



Acetylene tetrachloride  
 sym-Tetrachloroethane  
 1,1-Dichloro-2,2-dichloroethane  
 $C_2H_2Cl_4 / CHCl_2CHCl_2$   
 Molecular mass: 167.9

ICSC # 0332  
 CAS # 79-34-5  
 RTECS # [K18575000](#)  
 UN # 1702  
 EC # 602-015-00-3  
 April 20, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Abdominal pain. Cough. Sore throat. Headache. Nausea. Vomiting. Dizziness. Drowsiness. Confusion. Tremor. Convulsions.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. Dry skin. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Nausea. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: complete protective clothing including self-contained breathing apparatus. Ventilation. Do NOT let this chemical enter the environment. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.	Store in an area without drain or sewer access. Separated from strong bases, alkali metals, food and feedstuffs. Cool. Keep in the dark. Well closed. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Marine pollutant. T+ symbol N symbol R: 26/27-51/53 S: 1/2-38-45-61 UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0332**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

## 1,1,2,2-TETRACHLOROETHANE

ICSC: 0332

<p><b>I M P O R T A N T I N F O R M A T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating and under influence of air , UV light and moisture producing toxic and corrosive gases including hydrogen chloride , phosgene . Reacts violently with alkali metals , strong bases and powdered metals producing toxic and corrosive gases . Attacks plastic and rubber.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1 ppm as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2005). MAK: 1 ppm, 7.0 mg/m<sup>3</sup> Peak limitation category: II(2); skin absorption (H); Carcinogen category: 3B; Pregnancy risk group: D; (DFG 2006). OSHA PEL<sup>±</sup>: TWA 5 ppm (35 mg/m<sup>3</sup>) skin NIOSH REL: Ca TWA 1 ppm (7 mg/m<sup>3</sup>) skin <a href="#">See Appendix A</a> <a href="#">See Appendix C</a> (Chloroethanes) NIOSH IDLH: Ca 100 ppm See: <a href="#">79345</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract . The substance may cause effects on the central nervous system , liver and kidneys , resulting in central nervous system depression and impaired functions . Exposure may result in unconsciousness. Exposure may result in death.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the central nervous system and liver , resulting in impaired functions .</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 146°C Melting point: -44°C Relative density (water = 1): 1.59 Solubility in water, g/100 ml at 20°C: 0.29</p>	<p>Vapour pressure, Pa at 20°C: 647 Relative vapour density (air = 1): 5.8 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.03 Octanol/water partition coefficient as log Pow: 2.39</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
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### NOTES

Use of alcoholic beverages enhances the harmful effect. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated in October 2005. See section Storage.  
Transport Emergency Card: TEC (R)-61S1702 or 61GT1-II  
Card has been partially updated in July 2007: see Occupational Exposure Limits.

### ADDITIONAL INFORMATION

<p>ICSC: 0332</p>	<p>1,1,2,2-TETRACHLOROETHANE</p>
<p>(C) IPCS, CEC, 1994</p>	

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# International Chemical Safety Cards

## 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

ICSC: 0050



Trichlorotrifluoroethane  
 CFC 113  
 R 113  
 $C_2Cl_3F_3 / Cl_2FCCClF_2$   
 Molecular mass: 187.4

ICSC # 0050  
 CAS # 76-13-1  
 RTECS # [KJ4000000](#)  
 March 07, 2002 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Cardiac arrhythmia. Confusion. Drowsiness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: self-contained breathing apparatus.	Separated from metals and alloys. See Chemical Dangers. Cool. Ventilation along the floor.	

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0050**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

ICSC: 0050

<p><b>I M P O R T A N T N O T I C E</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS VOLATILE LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may accumulate in low ceiling spaces causing deficiency of oxygen.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive gases (hydrogen chloride ICSC 0163, phosgene ICSC 0007, hydrogen fluoride ICSC 0283, carbonyl fluoride ICSC 0633). Reacts violently with powdered metals causing fire and explosion hazard. Attacks magnesium and its alloys.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1000 ppm as TWA; 1250 ppm as STEL; A4 (not classifiable as a human carcinogen); (ACGIH 2004). MAK: 500 ppm, 3900 mg/m<sup>3</sup>; Peak limitation category: II(2); Pregnancy risk group: D; (DFG 2006). OSHA PEL<sup>†</sup>: TWA 1000 ppm (7600 mg/m<sup>3</sup>) NIOSH REL: TWA 1000 ppm (7600 mg/m<sup>3</sup>) ST 1250 ppm (9500 mg/m<sup>3</sup>) NIOSH IDLH: 2000 ppm See: <a href="#">76131</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> On loss of containment this liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes . The substance may cause effects on the cardiovascular system and central nervous system , resulting in cardiac disorders and central nervous system depression. Exposure could cause lowering of consciousness. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 48°C Melting point: -36°C Relative density (water = 1): 1.56 Solubility in water, g/100 ml at 20°C: 0.02 Vapour pressure, kPa at 20°C: 36</p>	<p>Relative vapour density (air = 1): 6.5 Relative density of the vapour/air-mixture at 20°C (air = 1): 3.0 Auto-ignition temperature: 680°C Octanol/water partition coefficient as log Pow: 3.30</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to its impact on the ozone layer.</p>	
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### NOTES

High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death. Check oxygen content before entering area. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Freon 113, Frigen 113, Halon 113 are trade names.

Card has been partially updated in July 2007: see Occupational Exposure Limits.

### ADDITIONAL INFORMATION

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<b>ICSC: 0050</b>	<b>1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE</b>
(C) IPCS, CEC, 1994	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 1,1,2-TRICHLOROETHANE

ICSC: 0080



Vinyl trichloride  
 beta-Trichloroethane  
 $C_2H_3Cl_3$  /  $CHCl_2CH_2Cl$   
 Molecular mass: 133.4

ICSC # 0080  
 CAS # 79-00-5  
 RTECS # [KJ3150000](#)  
 UN # 3082  
 EC # 602-014-00-8  
 March 13, 1995 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Heating will cause rise in pressure with risk of bursting. See Notes.	NO open flames. NO contact with hot surfaces.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	See Notes.		In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea. Shortness of breath. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Dry skin.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Safety spectacles or face shield .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: self-contained breathing apparatus.	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, strong bases, many metals . Well closed. Ventilation along the floor.	Marine pollutant. Xn symbol R: 20/21/22-40-66 S: 2-9-36/37-46 UN Hazard Class: 9 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**


ICSC: 0080

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# International Chemical Safety Cards

## 1,1,2-TRICHLOROETHANE

ICSC: 0080

<b>I M P O R T A N T I N F O R M A T I O N</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming hydrogen chloride (see ICSC0163), phosgene (see ICSC0007), and other toxic gases. Reacts with strong oxidants, strong bases and metals such as sodium, potassium, magnesium and powdered aluminium. Attacks many plastic, rubber, steel and zinc.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: 10 ppm, 55 mg/m<sup>3</sup> Peak limitation category: II(2); skin absorption (H); Carcinogen category: 3B; (DFG 2004). OSHA PEL: TWA 10 ppm (45 mg/m<sup>3</sup>) skin NIOSH REL: Ca TWA 10 ppm (45 mg/m<sup>3</sup>) skin <a href="#">See Appendix A</a> <a href="#">See Appendix C</a> (Chloroethanes) NIOSH IDLH: Ca 100 ppm See: <a href="#">79005</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the central nervous system , kidneys , liver , resulting in central nervous depression, liver impairment and kidney impairment . Exposure at high levels may result in unconsciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin.</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 114°C Melting point: -36°C Relative density (water = 1): 1.44 Solubility in water: none Vapour pressure, kPa at 20°C: 2.5</p> <p>Relative vapour density (air = 1): 4.6 Relative density of the vapour/air-mixture at 20°C (air = 1): 4.6 Explosive limits, vol% in air: 6-15.5 Octanol/water partition coefficient as log Pow: 2.35</p>	
<b>ENVIRONMENTAL DATA</b>	<p>The substance is harmful to aquatic organisms.</p> 	
<b>NOTES</b>		
<p>Flash point unknown in literature. Combustible vapour/air mixtures difficult to ignite, may be developed under certain conditions. Use of alcoholic beverages enhances the harmful effect. The relation between odour and the occupational exposure limit cannot be indicated. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated in April 2005. See sections Occupational Exposure Limits, EU classification.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-90GM6-III NFPA Code: H 3; F 1; R 0;</p>		
<b>ADDITIONAL INFORMATION</b>		
<b>ICSC: 0080</b>	<b>1,1,2-TRICHLOROETHANE</b>	
<small>(C) IPCS, CEC, 1994</small>		

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**IMPORTANT  
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NOTICE:**

Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,1-DICHLOROETHANE

ICSC: 0249



Ethane, 1,1-dichloro-  
Ethylidene chloride  
CH<sub>3</sub>CHCl<sub>2</sub>  
Molecular mass: 99.0

ICSC # 0249  
CAS # 75-34-3  
RTECS # [KI0175000](#)  
UN # 2362  
EC # 602-011-00-1  
September 20, 1993 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Dullness. Nausea. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Roughness.	Protective gloves	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: self-contained breathing apparatus.	Fireproof. Separated from: see Chemical Dangers. Cool.	Marine pollutant. F symbol Xn symbol R: 11-22-36/37-52/53 S: 2-16-23-61 UN Hazard Class: 3 UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0249

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# 1,1-DICHLOROETHANE

ICSC: 0249

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating and on burning producing toxic and corrosive fumes including phosgene (see ICSC 0007) and hydrogen chloride (see ICSC 0163). Reacts violently with strong oxidants, alkali metals and earth-alkali metals, powdered metals, causing fire and explosion hazard. Attacks aluminium, iron and polyethylene. Contact with strong caustic will cause formation of flammable and toxic acetaldehyde gas.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 100 ppm as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004). MAK: 100 ppm, 410 mg/m<sup>3</sup>; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2006). OSHA PEL: TWA 100 ppm (400 mg/m<sup>3</sup>) NIOSH REL: TWA 100 ppm (400 mg/m<sup>3</sup>) <a href="#">See Appendix C</a> (Chloroethanes) NIOSH IDLH: 3000 ppm See: <a href="#">75343</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the central nervous system. Exposure at high levels may result in unconsciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the kidneys and liver.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 57°C Melting point: -98°C Relative density (water = 1): 1.2 Solubility in water, g/100 ml at 20°C: 0.6 Vapour pressure, kPa at 20°C: 24</p>	<p>Relative vapour density (air = 1): 3.4 Flash point: -6°C c.c. Auto-ignition temperature: 458°C Explosive limits, vol% in air: 5.6-11.4 Octanol/water partition coefficient as log Pow: 1.8</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	
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**NOTES**

Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated in October 2005: see sections Occupational Exposure Limits, EU classification, Emergency Response. Card has been partly updated in October 2006: see sections Occupational Exposure Limits.

Transport Emergency Card: TEC (R)-30GF1-I+II  
NFPA Code: H 2; F 3; R 0;

**ADDITIONAL INFORMATION**

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**ICSC: 0249** **1,1-DICHLOROETHANE**

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## VINYLLIDENE CHLORIDE

ICSC: 0083



1,1-Dichloroethene  
 1,1-Dichloroethylene  
 VDC  
 $C_2H_2Cl_2 / H_2C=CCl_2$   
 Molecular mass: 97

ICSC # 0083  
 CAS # 75-35-4  
 RTECS # [KV9275000](#)  
 UN # 1303 (stabilized)  
 EC # 602-025-00-8  
 April 13, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Extremely flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Use non-sparking handtools.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
• <b>SKIN</b>	Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Sore throat. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.	Fireproof. Provision to contain effluent from fire extinguishing. Separated from incompatible materials (see Chemical Dangers). Cool. Keep in the dark. Store only if stabilized.	Airtight. Unbreakable packaging; put breakable packaging into closed unbreakable container. Marine pollutant. Note: D F+ symbol Xn symbol R: 12-20-40 S: 2-7-16-29-36/37-46 UN Hazard Class: 3 UN Packing Group: I

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0083**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## VINYLLIDENE CHLORIDE

**ICSC: 0083**

<p><b>I M P O R T A N T I N F O R M A T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> VOLATILE COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible. Vinylidene chloride monomer vapours are uninhibited and may form polymers in vents or flame arresters of storage tanks, resulting in blockage of vents.</p> <p><b>CHEMICAL DANGERS:</b> The substance can readily form explosive peroxides. The substance will polymerize readily due to heating or under the influence of oxygen, sunlight, copper or aluminium, with fire or explosion hazard. May explode on heating or on contact with flames. The substance decomposes on burning producing toxic and corrosive fumes ( hydrogen chloride , phosgene ). Reacts violently with oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 ppm as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004). MAK: 2 ppm, 8.0 mg/m<sup>3</sup>; Peak limitation category: II(2); Carcinogen category: 3B; Pregnancy risk group: C; (DFG 2004). OSHA PEL<sup>†</sup>: none NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes, the skin and the respiratory tract. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Exposure at high levels could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the kidneys and liver .</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 32°C Melting point: -122°C Relative density (water = 1): 1.2 Solubility in water, g/100 ml at 25°C: 0.25 Vapour pressure, kPa at 20°C: 66.5 Relative vapour density (air = 1): 3.3</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 2.5 Flash point: -25°C c.c. Auto-ignition temperature: 570°C Explosive limits, vol% in air: 5.6-16 Octanol/water partition coefficient as log Pow: 1.32</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated October 2004 and in April 2005. See section Occupational Exposure Limits.

Transport Emergency Card: TEC (R)-30S1303

NFPA Code: H2; F4; R2;

**ADDITIONAL INFORMATION**

**ICSC: 0083**

**VINYLDENE CHLORIDE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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CHEM SERVICE INC -- F824 1,1-DICHLOROPROPENE -- 6550-00F037539

=====  
Product Identification  
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Product ID:F824 1,1-DICHLOROPROPENE  
MSDS Date:09/30/1992  
FSC:6550  
NIIN:00F037539  
MSDS Number: BWJHM  
=== Responsible Party ===  
Company Name:CHEM SERVICE INC  
Address:660 TOWER LN  
Box:3108  
City:WEST CHESTER  
State:PA  
ZIP:19381-3108  
Country:US  
Info Phone Num:215-692-3026/800-452-9994  
Emergency Phone Num:215-692-3026/800-452-9994  
CAGE:84898

=== Contractor Identification ===

Company Name:CHEM SERVICE INC  
Box:3108  
City:WEST CHESTER  
State:PA  
ZIP:19381  
Country:US  
Phone:215-692-3026  
CAGE:84898  
Company Name:CHEM SERVICE, INC  
Address:660 TOWER LN  
Box:599  
City:WEST CHESTER  
State:PA  
ZIP:19301-9650  
Country:US  
Phone:610-692-3026  
CAGE:8Y898

=====  
Composition/Information on Ingredients  
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Ingred Name:1,1-DICHLOROPROPYLENE  
CAS:563-58-6  
RTECS #:UC8290000

=====  
Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:LACHRYMATOR-EYES: SEVERE  
IRRITATION/SEVERE BURNS. SKIN: HARMFUL IF ABSORBED, BURNS.  
INHALATION: HARMFUL/FATAL. EXTREMELY DESTRUCTIVE OF MUCOUS  
MEMBRANES & UPPER RESPIRATORY TRACT. CAN CAUSE EDEMA. ING ESTION:  
HARMFUL.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION, BURNS, SWELLING, BURNING SENSATION,  
COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE,  
NAUSEA, VOMITING.

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First Aid Measures  
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First Aid:EYES: FLUSH CONTINUOUSLY W/WATER FOR 15-20 MINS. SKIN: FLUSH  
W/WATER FOR 15-20 MINS. IF NOT BURNED, WASH W/SOAP & WATER TO  
CLEANSE. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED  
& CONTINU E UNTIL MEDICAL ASSISTANCE ARRIVES. OBTAIN MEDICAL  
ATTENTION IN ALL CASES.

===== Fire Fighting Measures =====

Flash Point:32F  
Extinguishing Media:CO2, DRY CHEMICAL POWDER/SPRAY.  
Unusual Fire/Explosion Hazard:FLAMMABLE CHEMICAL.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE AREA. WEAR APPROPRIATE OSHA  
REGULATED EQUIPMENT. VENTILATE AREA. ABSORB ON VERMICULITE/SIMILAR  
MATERIAL. SWEEP UP & PLACE IN APPROPRIATE CONTAINER/HOLD FOR  
DISPOSAL. WASH CONTAMINATED SURFACES TO REMOVE ANY RESIDUES.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL DRY PLACE ONLY  
W/COMPATIBLE CHEMICALS. KEEP TIGHTLY CLOSED. FOR LABORATORY USE  
ONLY.  
Other Precautions:AVOID CONTACT W/SKIN, EYES & CLOTHING. DON'T BREATHE  
VAPORS. CONTACT LENSES SHOULDN'T BE WORN IN THE LABORATORY. ALL  
CHEMICALS SHOULD BE CONSIDERED HAZARDOUS. AVOID DIRECT PHYSICAL  
CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR APPROPRIATE OSHA/MSHA APPROVED SAFETY  
EQUIPMENT.  
Ventilation:CHEMICAL SHOULD BE HANDLED ONLY IN A HOOD.  
Eye Protection:EYE SHIELDS  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

Appearance and Odor:CRYSTALLINE SOLID

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS/ACIDS.  
Hazardous Decomposition Products:TOXIC FUMES. DECOMPOSITION PRODUCTS  
ARE CORROSIVE.

===== Disposal Considerations =====

Waste Disposal Methods:BURN IN A CHEMICAL INCINERATOR EQUIPPED W/AN  
AFTERBURNER & SCRUBBER IAW/FEDERAL, STATE & LOCAL REGULATIONS.

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assume responsibility for the suitability of this information to their  
particular situation.

# International Chemical Safety Cards

## 1,2,3-TRICHLOROBENZENE

ICSC: 1222



vic-Trichlorobenzene  
 1,2,6-Trichlorobenzene  
 $C_6H_3Cl_3$   
 Molecular mass: 181.5

ICSC # 1222  
 CAS # 87-61-6  
 RTECS # [DC2095000](#)  
 UN # 3077  
 November 26, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Dry powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for harmful particles.)	Separated from strong oxidants. Keep in a well-ventilated room.	UN Hazard Class: 9

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1222**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## 1,2,3-TRICHLOROBENZENE

ICSC: 1222

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes including hydrogen chloride . Reacts with strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: 5 ppm, 38 mg/m<sup>3</sup>; H; Peak limitation category: II(2); Pregnancy risk group: D;  (DFG 2003).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 218.5°C Melting point: 53.5°C Density: 1.45 g/cm <sup>3</sup> Solubility in water: very poor	Vapour pressure, Pa at 25°C: 17.3 Relative vapour density (air = 1): 6.26 Flash point: 112.7°C c.c. Octanol/water partition coefficient as log Pow: 4.05
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<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.	
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**NOTES**

UN number 2321 refers to liquid trichlorobenzenes. Liquid trichlorobenzenes are marine pollutants. See ICSC 1049 1,2,4-Trichlorobenzene and 0344 1,3,5-Trichlorobenzene.

Transport Emergency Card: TEC (R)-90GM7-III

**ADDITIONAL INFORMATION**

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<b>ICSC: 1222</b>	(C) IPCS, CEC, 1994	<b>1,2,3-TRICHLOROBENZENE</b>
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# International Chemical Safety Cards

## 1,2,3-TRICHLOROPROPANE

ICSC: 0683



Glycerol trichlorohydrin  
 Allyl trichloride  
 $C_3H_5Cl_3 / CH_2ClCHClCH_2Cl$   
 Molecular mass: 147.4

ICSC # 0683  
 CAS # 96-18-4  
 RTECS # [TZ9275000](#)  
 UN # 2810  
 EC # 602-062-00-X  
 April 21, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
<b>EXPLOSION</b>	Above 73°C explosive vapour/air mixtures may be formed. Risk of fire and explosion on contact with metals.	Above 73°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>•INHALATION</b>	Cough. Sore throat. Headache. Drowsiness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Dry skin. Redness. Prickling.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Nausea. Headache. Vomiting. Diarrhoea. Drowsiness. Unconsciousness.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.	Separated from powdered metals, food and feedstuffs. Cool. Keep in a well-ventilated room. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Marine pollutant. Note: D T symbol R: 45-60-20/21/22 S: 53-45 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0683**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## 1,2,3-TRICHLOROPROPANE

ICSC: 0683

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes . Reacts violently with some powdered metals causing explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 2; (DFG 2005). OSHA PEL<sup>±</sup>: TWA 50 ppm (300 mg/m<sup>3</sup>) NIOSH REL: Ca TWA 10 ppm (60 mg/m<sup>3</sup>) skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca 100 ppm See: <a href="#">96184</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the respiratory tract . The substance may cause effects on the liver and kidneys , resulting in impaired functions . Exposure at high levels may result in lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> This substance is probably carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 156°C Melting point: -14°C Relative density (water = 1): 1.39 Solubility in water, g/100 ml: 0.18 (very poor) Vapour pressure, kPa at 20°C: 0.29 Relative vapour density (air = 1): 5.1</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 73°C c.c. Auto-ignition temperature: 304°C Explosive limits, vol% in air: 3.2-12.6 Octanol/water partition coefficient as log Pow: 2.27</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to ground water contamination.</p>	
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### NOTES

Do NOT take working clothes home. Card has been partly updated in October 2005. See section Occupational Exposure Limits.

Transport Emergency Card: TEC (R)-61GT1-III

NFPA Code: H3; F2; R0;

### ADDITIONAL INFORMATION

ICSC: 0683

1,2,3-TRICHLOROPROPANE

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 1,2,4-TRICHLOROBENZENE

ICSC: 1049



1,2,4-Trichlorobenzol  
 unsym-Trichlorobenzene  
 $C_6H_3Cl_3$   
 Molecular mass: 181.5

ICSC # 1049  
 CAS # 120-82-1  
 RTECS # [DC2100000](#)  
 UN # 2321  
 EC # 602-087-00-6  
 November 26, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Cough. Sore throat. Burning sensation.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness. Roughness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Sore throat. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Sweep spilled substance into sealable containers, if solid. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Separated from strong oxidants, acids, food and feedstuffs.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 22-38-50/53 S: 2-23-37/39-60-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1049**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# 1,2,4-TRICHLOROBENZENE

ICSC: 1049

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID OR WHITE CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes including hydrogen chloride . Reacts violently with oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 ppm; (Ceiling value); (ACGIH 2003). EU OEL: as TWA 2 ppm, 15.1 mg/m<sup>3</sup>; as STEL 5 ppm, 37.8 mg/m<sup>3</sup>; (skin); (EU 2003). OSHA PEL<sup>†</sup>: none NIOSH REL: C 5 ppm (40 mg/m<sup>3</sup>) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes the skin and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the liver .</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 213°C Melting point: 17°C Relative density (water = 1): 1.5 Solubility in water: 34.6 mg/l Vapour pressure, Pa at 25°C: 40 Relative vapour density (air = 1): 6.26</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.002 Flash point: 105°C c.c. Auto-ignition temperature: 571°C Explosive limits, vol% in air: 2.5-6.6 (at 150°C) Octanol/water partition coefficient as log Pow: 3.98</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.</p>	
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**NOTES**

The occupational exposure limit value should not be exceeded during any part of the working exposure. Also consult ICSC0344 1,3,5-Trichlorobenzene, and ICSC1222 1,2,3-Trichlorobenzene.

Transport Emergency Card: TEC (R)-61GT1-III  
NFPA Code: H2; F1; R0;

**ADDITIONAL INFORMATION**

<p><b>ICSC: 1049</b></p>	<p>(C) IPCS, CEC, 1994</p>	<p><b>1,2,4-TRICHLOROBENZENE</b></p>
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<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

1,2,4-TRIMETHYLBENZENE

ICSC: 1433



Pseudocumene  
 $C_9H_{12}$   
 Molecular mass: 120,2

ICSC # 1433  
 CAS # 95-63-6  
 RTECS # [DC3325000](#)  
 UN # 1993  
 EC # 601-043-00-3  
 March 06, 2002 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Alcohol-resistant foam, dry powder, carbon dioxide.
<b>EXPLOSION</b>	Above 44°C explosive vapour/air mixtures may be formed.	Above 44°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Confusion. Cough. Dizziness. Drowsiness. Headache. Sore throat. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Redness. Dry skin.	Protective gloves.	Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: filter respirator for organic gases and vapours.	Fireproof. Separated from strong oxidants. Well closed. Keep in a well-ventilated room.	Xn symbol N symbol R: 10-20-36/37/38-51/53 S: 2-26-61 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 1433

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## 1,2,4-TRIMETHYLBENZENE

ICSC: 1433

<p><b>I M P O R T A N T N O T I C E</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and irritating fumes Reacts violently with strong oxidants causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: (as mixed isomers) 25 ppm as TWA (ACGIH 2004). MAK: (as mixed isomers) 20 ppm 100 mg/m<sup>3</sup> Peak limitation category: II(2) Pregnancy risk group: C (DFG 2004). OSHA PEL<sup>†</sup>: none NIOSH REL: TWA 25 ppm (125 mg/m<sup>3</sup>) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes the skin and the respiratory tract If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. Lungs may be affected by repeated or prolonged exposure , resulting in chronic bronchitis The substance may have effects on the central nervous system blood See Notes.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 169°C Melting point: -44°C Relative density (water = 1): 0.88 Solubility in water: very poor Relative vapour density (air = 1): 4.1</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 44°C c.c. Auto-ignition temperature: 500°C Explosive limits, vol% in air: 0.9-6.4 Octanol/water partition coefficient as log Pow: 3.8</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.</p>	
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**NOTES**

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is suggested. See also ICSC 1155 1,3,5-Trimethylbenzene (Mesitylene), ICSC 1362 1,2,3-Trimethylbenzene (Hemimellitene), ICSC 1389 Trimethylbenzene (mixed isomers). 1,3,5-Trimethylbenzene (Mesitylene) is classified as a marine pollutant.

Transport Emergency Card: TEC (R)-30GF1-III  
NFPA Code: H0; F2; R0;

**ADDITIONAL INFORMATION**

<p><b>ICSC: 1433</b></p>	<p><b>1,2,4-TRIMETHYLBENZENE</b></p>
<p>(C) IPCS, CEC, 1994</p>	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 1,2-DIBROMO-3-CHLOROPROPANE

ICSC: 0002



3-Chloro-1,2-dibromopropane  
 DBCP  
 1-Chloro-2,3-dibromopropane  
 $C_3H_5Br_2Cl$   
 Molecular mass: 236.4

ICSC # 0002  
 CAS # 96-12-8  
 RTECS # [TX8750000](#)  
 UN # 2872  
 EC # 602-021-00-6  
 August 10, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 77°C explosive vapour/air mixtures may be formed.	Above 77°C closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!                  PREVENT GENERATION OF MISTS!                  AVOID EXPOSURE OF (PREGNANT) WOMEN!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>•INHALATION</b>	Burning sensation. Cough. Sore throat. Headache. Shortness of breath. Weakness.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Sore throat. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: complete protective clothing including self-contained breathing apparatus.)	Separated from food and feedstuffs, metals such as aluminium or magnesium. Well closed.	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Note: E T symbol R: 45-46-60-25-48/20/22-52/53 S: 53-45-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0002**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## 1,2-DIBROMO-3-CHLOROPROPANE

**ICSC: 0002**

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH PUNGENT ODOUR. TECHNICAL GRADE: AMBER TO DARK BROWN LIQUID.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating above the boiling point and on burning producing toxic fumes including hydrogen bromide , hydrogen chloride . Reacts with aluminium, magnesium, tin and their alloys in presence of water. Attacks some forms of rubber and coatings.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: skin absorption (H); Carcinogen category: 2; Germ cell mutagen group: 2; (DFG 2002). OSHA PEL: 1910.1044 TWA 0.001 ppm NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes, the skin and the respiratory tract . The substance may cause effects on the central nervous system and kidneys , resulting in impaired functions . Exposure could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver , lungs , kidneys and testes , resulting in impaired functions and tissue lesions . This substance is possibly carcinogenic to humans. Causes toxicity to human reproduction or development.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point (decomposes): 196°C Melting point: 6.7°C Relative density (water = 1): 2.1 Solubility in water: poor</p>	<p>Vapour pressure, kPa at 20°C: 0.1 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 77°C Octanol/water partition coefficient as log Pow: 2.96</p>
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<b>ENVIRONMENTAL DATA</b>	<p>The substance is harmful to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is indicated. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert. Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home.

Transport Emergency Card: TEC (R)-61GT1-III

NFPA Code: H2; F1; R1;

**ADDITIONAL INFORMATION**

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**ICSC: 0002**

**1,2-DIBROMO-3-CHLOROPROPANE**

(C) IPCS, CEC, 1994

<b>IMPORTANT</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject.</p>
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**LEGAL  
NOTICE:**

The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## ETHYLENE DIBROMIDE

ICSC: 0045



1,2-Dibromoethane  
EDB  
 $\text{Br}(\text{CH}_2)_2\text{Br} / \text{C}_2\text{H}_4\text{Br}_2$   
Molecular mass: 187.9

ICSC # 0045  
CAS # 106-93-4  
RTECS # [KH9275000](#)  
UN # 1605  
EC # 602-010-00-6  
April 27, 1993 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Risk of fire and explosion on contact with powdered metals: see Chemical Dangers.		
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
• <b>INHALATION</b>	Burning sensation. Cough. Laboured breathing. Shortness of breath. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
• <b>SKIN</b>	<b>MAY BE ABSORBED!</b> Pain. Redness. Blisters.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Pain. Redness. Severe deep burns.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>			

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in dry sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.	Separated from strong oxidants, strong bases, powdered metals, food and feedstuffs: see Chemical Dangers. Dry. Keep in the dark. Ventilation along the floor.	Do not transport with food and feedstuffs. Marine pollutant. Note: E T symbol N symbol R: 45-23/24/25-36/37/38-51/53 S: 53-45-61 UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0045

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## ETHYLENE DIBROMIDE

ICSC: 0045

<p><b>I</b></p> <p><b>M</b></p> <p><b>P</b></p> <p><b>O</b></p> <p><b>R</b></p> <p><b>T</b></p> <p><b>A</b></p> <p><b>N</b></p> <p><b>T</b></p> <p><b>D</b></p> <p><b>A</b></p> <p><b>T</b></p> <p><b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes, hydrogen bromide (see ICSC0282) and bromine (see ICSC0107). The substance decomposes slowly under influence of light and moisture producing corrosive hydrogen bromide. Reacts vigorously with powdered aluminium or magnesium, metals such as sodium, potassium and calcium, strong bases and strong oxidants, causing fire and explosion hazard. Attacks fats, rubber, some forms of plastic, coatings.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: skin absorption (H); Carcinogen category: 2; (DFG 2004). OSHA PEL: TWA 20 ppm C 30 ppm 50 ppm 5-minute maximum peak NIOSH REL: Ca TWA 0.045 ppm C 0.13 ppm 15-minute <a href="#">See Appendix A</a> NIOSH IDLH: Ca 100 ppm See: <a href="#">106934</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract The substance may cause effects on the central nervous system , resulting in lowering of consciousness .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Lungs may be affected by repeated or prolonged exposure causing bronchitis. The substance may have effects on the liver and kidneys. This substance is probably carcinogenic to humans. Animal tests show that this substance possibly causes toxic effects upon human reproduction.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 131°C Melting point: 10°C Relative density (water = 1): 2.2 Solubility in water: poor</p>	<p>Vapour pressure, kPa at 20°C: 1.5 Relative vapour density (air = 1): 6.5 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.08 Octanol/water partition coefficient as log Pow: 1.93</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous to the environment; special attention should be given to water.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. Card has been partly updated in April 2005. See sections Occupational Exposure Limits, EU classification.

Transport Emergency Card: TEC (R)-61S1605

NFPA Code: H3; F0; R0;

**ADDITIONAL INFORMATION**

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**ICSC: 0045**

**ETHYLENE DIBROMIDE**

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject.</p>
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**NOTICE:**

The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,2-DICHLOROBENZENE

ICSC: 1066



ortho-Dichlorobenzene  
 $C_6H_4Cl_2$   
 Molecular mass: 147.0

ICSC # 1066  
 CAS # 95-50-1  
 RTECS # [CZ4500000](#)  
 UN # 1591  
 EC # 602-034-00-7  
 November 26, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 66°C explosive vapour/air mixtures may be formed.	Above 66°C use a closed system, ventilation.	
<b>EXPOSURE</b>			
• <b>INHALATION</b>	Cough. Drowsiness. Sore throat. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Redness. Pain. Dry skin.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Redness. Pain.	Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Separated from aluminium, oxidants and food and feedstuffs.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol. N symbol. R: 22-36/37/38-50/53. S: 2-23-60-61. UN Hazard Class: 6.1. UN Packing Group: III.

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 1066**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**1,2-DICHLOROBENZENE**

ICSC: 1066

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO YELLOW LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive gases including hydrogen chloride . Reacts with aluminium and oxidants . Attacks plastic and rubber.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> OSHA PEL: C 50 ppm (300 mg/m<sup>3</sup>) NIOSH REL: C 50 ppm (300 mg/m<sup>3</sup>) NIOSH IDLH: 200 ppm See: <a href="#">95501</a> TLV: 25 ppm as TWA; 50 ppm as STEL; A4; (ACGIH 2003). MAK: 10 ppm, 61 mg/m<sup>3</sup>; H; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2003).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract . The substance may cause effects on the central nervous system and liver . Exposure could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the kidneys , blood .</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 180-183°C Melting point: -17°C Relative density (water = 1): 1.3 Solubility in water: very poor Vapour pressure, kPa at 20°C: 0.16</p>	<p>Relative vapour density (air = 1): 5.1 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.006 Flash point: 66°C c.c. Auto-ignition temperature: 648°C Explosive limits, vol% in air: 2.2-9.2 Octanol/water partition coefficient as log Pow: 3.38</p>
<b>ENVIRONMENTAL DATA</b>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish. It is strongly advised that this substance does not enter the environment.</p> 	
<b>NOTES</b>		
<p>Transport Emergency Card: TEC (R)-61GT1-III NFPA Code: H2; F2; R0;</p>		
<b>ADDITIONAL INFORMATION</b>		
<b>ICSC: 1066</b>	<b>1,2-DICHLOROBENZENE</b>	
(C) IPCS, CEC, 1994		
<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>	



# International Chemical Safety Cards

## 1,2-DICHLOROETHANE

ICSC: 0250



Ethylene dichloride  
1,2-Ethylene dichloride  
Ethane dichloride  
 $\text{ClCH}_2\text{CH}_2\text{Cl} / \text{C}_2\text{H}_4\text{Cl}_2$   
Molecular mass: 98.96

ICSC # 0250  
CAS # 107-06-2  
RTECS # [KI0525000](#)  
UN # 1184  
EC # 602-012-00-7  
March 13, 1995 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Abdominal pain. Cough. Dizziness. Drowsiness. Headache. Nausea. Sore throat. Unconsciousness. Vomiting. Symptoms may be delayed (see Notes).	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain. Blurred vision.	Safety goggles face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal cramps. Diarrhoea. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Give nothing to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: self-contained breathing apparatus.	Fireproof. Separated from strong oxidants, food and feedstuffs, and other incompatible materials. See Chemical Dangers. Cool. Dry.	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Marine pollutant. Note: E F symbol T symbol R: 45-11-22-36/37/38

S: 53-45  
UN Hazard Class: 3  
UN Subsidiary Risks: 6.1  
UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0250**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,2-DICHLOROETHANE

**ICSC: 0250**

<b>I M P O R T A N T A D V A</b>	<b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS VISCOUS LIQUID , WITH CHARACTERISTIC ODOUR. TURNS DARK ON EXPOSURE TO AIR, MOISTURE AND LIGHT.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.
	<b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible. As a result of flow, agitation, etc., electrostatic charges can be generated.	<b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.
<b>PHYSICAL PROPERTIES</b>	<b>CHEMICAL DANGERS:</b> The substance decomposes on heating and on burning producing toxic and corrosive fumes including hydrogen chloride (ICSC 0163) and phosgene (ICSC 0007). Reacts violently with aluminium, alkali metals, alkali amides, ammonia, bases, strong oxidants. Attacks many metals in presence of water. Attacks plastic.	<b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The vapour is irritating to the eyes , the skin and the respiratory tract . Inhalation of the vapour may cause lung oedema (see Notes). The substance may cause effects on the central nervous system, kidneys, liver , resulting in impaired functions.
	<b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004). MAK: skin absorption (H); Carcinogen category: 2; (DFG 2004). OSHA PEL <sup>†</sup> : TWA 50 ppm C 100 ppm 200 ppm 5-minute maximum peak in any 3 hours NIOSH REL: Ca TWA 1 ppm (4 mg/m <sup>3</sup> ) ST 2 ppm (8 mg/m <sup>3</sup> ) <a href="#">See Appendix A</a> <a href="#">See Appendix C</a> (Chloroethanes)  NIOSH IDLH: Ca 50 ppm See: <a href="#">107062</a>	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. This substance is probably carcinogenic to humans.
<b>ENVIRONMENTAL DATA</b>	Boiling point: 83.5°C Melting point: -35.7°C Relative density (water = 1): 1.235 Solubility in water, g/100 ml: 0.87 Vapour pressure, kPa at 20°C: 8.7 Relative vapour density (air = 1): 3.42	Relative density of the vapour/air-mixture at 20°C (air = 1): 1.2 Flash point: 13°C c.c. Auto-ignition temperature: 413°C Explosive limits, vol% in air: 6.2-16 Octanol/water partition coefficient as log Pow: 1.48

### NOTES

Depending on the degree of exposure, periodic medical examination is suggested. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.

Transport Emergency Card: TEC (R)-30GTF1-II

NFPA Code: H 2; F 3; R 0;

**ADDITIONAL INFORMATION**

**ICSC: 0250**

**1,2-DICHLOROETHANE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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# International Chemical Safety Cards

## 1,2-DICHLOROPROPANE

ICSC: 0441



Propylene dichloride  
 $C_3H_6Cl_2$   
 Molecular mass: 113.0

ICSC # 0441  
 CAS # 78-87-5  
 RTECS # [TX9625000](#)  
 UN # 1279  
 EC # 602-020-00-0  
 March 25, 1999 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder . Foam. Carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Cough. Drowsiness. Headache. Sore throat.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Dry skin. Redness. Pain.	Protective gloves.	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Diarrhoea. Drowsiness. Headache. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: self-contained breathing apparatus.	Fireproof. Provision to contain effluent from fire extinguishing.	F symbol Xn symbol R: 11-20/22 S: 2-16-24 UN Hazard Class: 3 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0441**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,2-DICHLOROPROPANE

ICSC: 0441

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic and corrosive fumes. Attacks aluminum alloys and some types of plastics.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA, SEN A4 (not classifiable as a human carcinogen); (ACGIH 2007). MAK: Carcinogen category: 3B; (DFG 2006). OSHA PEL<sup>†</sup>: TWA 75 ppm (350 mg/m<sup>3</sup>) NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca 400 ppm See: <a href="#">78875</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the liver and kidneys.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 96°C Melting point: -100°C Relative density (water = 1): 1.16 Solubility in water, g/100 ml at 20°C: 0.26 Vapour pressure, kPa at 20°C: 27.9 Relative vapour density (air = 1): 3.9</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.15 Flash point: 16°C c.c. Auto-ignition temperature: 557°C Explosive limits, vol% in air: 3.4-14.5 Octanol/water partition coefficient as log Pow: 2.02 (calculated)</p>
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<b>ENVIRONMENTAL DATA</b>	
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### NOTES

Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.  
 Transport Emergency Card: TEC (R)-30S1279 or 30GF1-I-II

NFPA Code: H2; F3; R0;

Card has been partially updated in July 2007: see Occupational Exposure Limits.  
 Card has been partially updated in January 2008: see Fire fighting.

### ADDITIONAL INFORMATION

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<b>ICSC: 0441</b>	(C) IPCS, CEC, 1994	<b>1,2-DICHLOROPROPANE</b>
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<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 1,3,5-TRIMETHYLBENZENE

ICSC: 1155



Mesitylene  
 $C_9H_{12}$   
 Molecular mass: 120.2

ICSC # 1155  
 CAS # 108-67-8  
 RTECS # [OX6825000](#)  
 UN # 2325  
 EC # 601-025-00-5  
 March 06, 2002 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Alcohol-resistant foam, dry powder, carbon dioxide.
<b>EXPLOSION</b>	Above 50°C explosive vapour/air mixtures may be formed.	Above 50°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Confusion. Cough. Dizziness. Drowsiness. Headache. Sore throat. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Redness. Dry skin.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants. Well closed. Keep in a well-ventilated room.	Marine pollutant. Xi symbol N symbol R: 10-37-51/53 S: 2-61 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1155**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

## 1,3,5-TRIMETHYLBENZENE

ICSC: 1155

<p><b>I M P O R T A N T N O T I C E</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and irritating fumes. Reacts violently with strong oxidants causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV (as mixed isomers): 25 ppm; (ACGIH 2001). MAK (all isomers): 20 ppm; 100 mg/m<sup>3</sup>; class II 1 © (2001) OSHA PEL<sup>†</sup>: none NIOSH REL: TWA 25 ppm (125 mg/m<sup>3</sup>) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes the skin and the respiratory tract If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. Lungs may be affected by repeated or prolonged exposure, resulting in chronic bronchitis. The substance may have effects on the central nervous system blood See Notes.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 165°C Melting point: -45°C Relative density (water = 1): 0.86 Solubility in water: very poor Vapour pressure, kPa at 20°C: 0.25</p>	<p>Relative vapour density (air = 1): 4.1 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 50°C (c.c.) Auto-ignition temperature: 550°C Octanol/water partition coefficient as log Pow: 3.42</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms. Bioaccumulation of this chemical may occur in fish.</p>	
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**NOTES**

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is indicated. See ICSC 1433 1,2,4-Trimethylbenzene (Pseudocumene), ICSC 1362 1,2,3-Trimethylbenzene (Hemimellitene), ICSC 1389 Trimethylbenzene (mixed isomers).

Transport Emergency Card: TEC (R)-30S2325  
NFPA Code: H0; F2; R0

**ADDITIONAL INFORMATION**

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<b>ICSC: 1155</b>		<b>1,3,5-TRIMETHYLBENZENE</b>
(C) IPCS, CEC, 1994		

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 1,3-DICHLOROBENZENE

ICSC: 1095



m-Dichlorobenzene  
m-Phenylene dichloride  
 $C_6H_4Cl_2$   
Molecular mass: 147.00

ICSC # 1095  
CAS # 541-73-1  
RTECS # [CZ4499000](#)  
UN # 2810  
EC # 602-067-00-7  
April 10, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 63°C explosive vapour/air mixtures may be formed.	Above 63°C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Cough. Drowsiness. Nausea. Sore throat. Vomiting. See Notes.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust).	Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access. Separated from strong oxidants, aluminium, food and feedstuffs. Well closed.	Do not transport with food and feedstuffs. Xn symbol N symbol R: 22-51/53 S: 2-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1095**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# 1,3-DICHLOROBENZENE

ICSC: 1095

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes including hydrogen chloride . Reacts with strong oxidants. Reacts violently with aluminium .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: 2 ppm, 12 mg/m<sup>3</sup>; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2008).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The vapour irritates the eyes, the skin and the respiratory tract. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the kidneys and liver . See Notes.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 173°C Melting point: -24.8°C Relative density (water = 1): 1.288 Solubility in water: none</p>	<p>Vapour pressure, kPa at 25°C: 0.286 Relative vapour density (air = 1): 5.1 Flash point: 63°C Octanol/water partition coefficient as log Pow: 3.53</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish .</p>	
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**NOTES**

Data on the toxicity of m-dichlorobenzene are limited. Also consult ICSC #0037 (p-Dichlorobenzene) and #1066 (o-Dichlorobenzene).  
Card has been partially updated in November 2008: see Occupational Exposure Limits, Storage.

**ADDITIONAL INFORMATION**

<p><b>ICSC: 1095</b></p>	<p><b>1,3-DICHLOROBENZENE</b></p>
<p>(C) IPCS, CEC, 1994</p>	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 1,3-DICHLOROPROPANE

ICSC: 0724



$C_3H_6Cl_2 / CH_2ClCH_2CH_2Cl$   
Molecular mass: 113.0

ICSC # 0724  
CAS # 142-28-9  
RTECS # [TX9660000](#)  
UN # 1992  
July 04, 1997 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 16°C explosive vapour/air mixtures may be formed.	Above 16°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Dizziness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
• <b>SKIN</b>	Redness. Pain.	Protective gloves.	First rinse with plenty of water, then remove contaminated clothes and rinse again.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Ventilation. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: filter respirator for organic gases and vapours.	Separated from food and feedstuffs oxidants acids, bases alumina. Cool. Well closed. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Marine pollutant. UN Hazard Class: 3 UN Subsidiary Risks: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0724

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,3-DICHLOROPROPANE

ICSC: 0724

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<p><b>M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing hydrogen chloride and phosgene .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes, the skin and the respiratory tract.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 120°C Melting point: -99°C Relative density (water = 1): 1.19 Solubility in water, g/100 ml at 20°C: 0.3 Vapour pressure, kPa at 20°C: 2.4</p>	<p>Relative vapour density (air = 1): 3.9 Flash point: 16°C o.c. Explosive limits, vol% in air: see Notes Octanol/water partition coefficient as log Pow: 2.0</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	
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**NOTES**

Explosive limits are unknown in literature, although the substance is combustible and has a flash point < 61°C. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

Transport Emergency Card: TEC (R)-30G32

**ADDITIONAL INFORMATION**

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<b>ICSC: 0724</b>	(C) IPCS, CEC, 1994	<b>1,3-DICHLOROPROPANE</b>
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<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 1,4-DICHLOROBENZENE

ICSC: 0037



p-Dichlorobenzene  
PDCB  
 $C_6H_4Cl_2$   
Molecular mass: 147

ICSC # 0037  
CAS # 106-46-7  
RTECS # [CZ4550000](#)

UN # 3077  
EC # 602-035-00-2

November 26, 2003 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 66°C explosive vapour/air mixtures may be formed.	Above 66°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
<b>•INHALATION</b>	Burning sensation. Cough. Drowsiness. Headache. Nausea. Shortness of breath. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Diarrhoea. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 36-40-50/53 S: 2-36/37-46-60-61 UN Hazard Class: 9 UN Packing Group: III

### SEE IMPORTANT INFORMATION ON BACK

**ICSC: 0037**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

## 1,4-DICHLOROBENZENE

ICSC: 0037

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO WHITE CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic and corrosive fumes including hydrogen chloride. Reacts with strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; A3; (ACGIH 2004). MAK: H; Carcinogen category: 2; Germ cell mutagen group: 3B; (DFG 2004). OSHA PEL†: TWA 75 ppm (450 mg/m<sup>3</sup>) NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca 150 ppm See: <a href="#">106467</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the respiratory tract . The substance may cause effects on the blood , resulting in haemolytic anaemia. The substance may cause effects on the central nervous system. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver, kidneys and blood. This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 174°C Melting point: 53°C Density: 1.2 g/cm<sup>3</sup> Solubility in water: at 25 °C 80 mg/l Vapour pressure, Pa at 20°C: 170</p>	<p>Relative vapour density (air = 1): 5.08 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 66°C c.c. Explosive limits, vol% in air: 6.2-16 Octanol/water partition coefficient as log Pow: 3.37</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.</p>	
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### NOTES

Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-90GM7-III

NFPA Code: H 2; F 2; R 0;

### ADDITIONAL INFORMATION

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ICSC: 0037

1,4-DICHLOROBENZENE

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 2,2-Dichloropropane  
Product Number : 36270  
Brand : Fluka  
Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>3</sub>H<sub>6</sub>Cl<sub>2</sub>  
Molecular Weight : 112.99 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>2,2-Dichloropropane</b>			
594-20-7	209-832-0	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Flammable Liquid

**HMIS Classification****Health Hazard:** 0**Flammability:** 3**Physical hazards:** 0**NFPA Rating****Health Hazard:** 0**Fire:** 3**Reactivity Hazard:** 0**Potential Health Effects****Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.**Skin** May be harmful if absorbed through skin. May cause skin irritation.**Eyes** May cause eye irritation.**Ingestion** May be harmful if swallowed.**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point                      -5.0 °C (23.0 °F) - closed cup

Ignition temperature      no data available

**Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

Use water spray to cool unopened containers.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**7. HANDLING AND STORAGE****Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

Recommended storage temperature: 2 - 8 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid, clear
Colour	colourless

### Safety data

pH	no data available
Melting point	-35.0 °C (-31.0 °F)
Boiling point	66.0 - 69.0 °C (150.8 - 156.2 °F)
Flash point	-5.0 °C (23.0 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	206.6 hPa (155.0 mmHg)
Density	1.09 g/cm <sup>3</sup>
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 1.89

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

Heat, flames and sparks.



**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

**Hazardous reactions**

Vapours may form explosive mixture with air.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Additional Information**

RTECS: TX9662500

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

### 13. DISPOSAL CONSIDERATIONS

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### DOT (US)

UN-Number: 1993 Class: 3 Packing group: II  
Proper shipping name: Flammable liquids, n.o.s. (2,2-Dichloropropane)  
Marine pollutant: No  
Poison Inhalation Hazard: No

#### IMDG

UN-Number: 1993 Class: 3 Packing group: II EMS-No: F-E, S-E  
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (2,2-Dichloropropane)  
Marine pollutant: No

#### IATA

UN-Number: 1993 Class: 3 Packing group: II  
Proper shipping name: Flammable liquid n.o.s. (2,2-Dichloropropane)

### 15. REGULATORY INFORMATION

#### OSHA Hazards

Flammable Liquid

#### DSL Status

All components of this product are on the Canadian DSL list.

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard

#### Massachusetts Right To Know Components

2,2-Dichloropropane

CAS-No.  
594-20-7

Revision Date  
1991-07-01

#### Pennsylvania Right To Know Components

2,2-Dichloropropane

CAS-No.  
594-20-7

Revision Date  
1991-07-01

#### New Jersey Right To Know Components

2,2-Dichloropropane

CAS-No.  
594-20-7

Revision Date  
1991-07-01

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.



## 16. OTHER INFORMATION

### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

# International Chemical Safety Cards

## 2-CHLOROTOLUENE

ICSC: 1458



1-Chloro-2-methylbenzene  
 o-Chlorotoluene  
 o-Tolyl chloride  
 $C_7H_7Cl / CH_3C_6H_4Cl$   
 Molecular mass: 126.59

ICSC # 1458  
 CAS # 95-49-8  
 RTECS # [XS9000000](#)  
 UN # 2238  
 EC # 602-040-00-X  
 August 05, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Carbon dioxide, water spray, foam, powder.
<b>EXPLOSION</b>	Above 43°C explosive vapour/air mixtures may be formed.	Above 43°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Cough. Shortness of breath. Dizziness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness. Pain.	Protective gloves.	First rinse with plenty of water, then remove contaminated clothes and rinse again.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. (Extra personal protection: filter respirator for organic gases and vapours.) Do NOT let this chemical enter the environment.	Fireproof. Separated from strong oxidants.	Marine pollutant. Note: C Xn symbol N symbol R: 20-51/53 S: 2-24/25-61 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 1458

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the


# International Chemical Safety Cards

## 2-CHLOROTOLUENE

ICSC: 1458

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic and corrosive fumes including hydrogen chloride and phosgene . Reacts with oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 50 ppm as TWA; (ACGIH 2003). OSHA PEL<sub>T</sub>: none NIOSH REL: TWA 50 ppm (250 mg/m<sup>3</sup>) ST 75 ppm (375 mg/m<sup>3</sup>) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation .</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 159.2°C Melting point: -35.1°C Relative density (water = 1): 1.08 Solubility in water, g/100 ml at 20°C: 0.47 Vapour pressure, kPa at 20°C: 0.35 Relative vapour density (air = 1): 4.4</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 43°C c.c. Explosive limits, vol% in air: 1 - 12.6 Octanol/water partition coefficient as log Pow: 3.4</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms. This substance may be hazardous in the environment; special attention should be given to crustacea and fish.</p>	
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**NOTES**

Transport Emergency Card: TEC (R)-30GFI-III

NFPA Code: H2; F2; R0;

**ADDITIONAL INFORMATION**

<p><b>ICSC: 1458</b></p>	<p><b>2-CHLOROTOLUENE</b></p>
<p>(C) IPCS, CEC, 1994</p>	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 4-CHLOROTOLUENE

ICSC: 1386



p-Chlorotoluene  
 1-Chloro-4-methylbenzene  
 p-Tolyl chloride  
 $C_7H_7Cl$   
 Molecular mass: 126.6

ICSC # 1386  
 CAS # 106-43-4  
 RTECS # [XS9010000](#)  
 UN # 2238  
 EC # 602-040-00-X  
 March 14, 2001 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 49°C explosive vapour/air mixtures may be formed.	Above 49°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
• <b>INHALATION</b>		Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
• <b>SKIN</b>	Dry skin. Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants.	Marine pollutant. Note: C Xn symbol N symbol R: 20-51/53 S: 2-24/25-61 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1386**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## 4-CHLOROTOLUENE

ICSC: 1386

I M P O R T A N T  D A T A	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic gases including carbon monoxide , hydrogen chloride , possibly phosgene . Reacts with strong oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b></p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 162°C Melting point: 7.5°C Relative density (water = 1): 1.07 Solubility in water, g/100 ml at 20°C: 0.01 Vapour pressure, kPa at 20°C: 0.35	Relative vapour density (air = 1): 4.4 Flash point: 49°C Auto-ignition temperature: 595°C Explosive limits, vol% in air: 0.7-12.2 Octanol/water partition coefficient as log Pow: 3.33
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<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms.	
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### NOTES

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

Transport Emergency Card: TEC (R)-30G35c

NFPA Code: H2; F2; R0;

### ADDITIONAL INFORMATION

<b>ICSC: 1386</b>	<b>4-CHLOROTOLUENE</b>
(C) IPCS, CEC, 1994	

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# International Chemical Safety Cards

**BENZENE**

ICSC: 0015



Cyclohexatriene  
Benzol  
C<sub>6</sub>H<sub>6</sub>  
Molecular mass: 78.1

ICSC # 0015  
CAS # 71-43-2  
RTECS # [CY1400000](#)  
UN # 1114  
EC # 601-020-00-8  
May 06, 2003 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive. Risk of fire and explosion: see Chemical Dangers.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling. Use non-sparking handtools. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	
<b>•INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea. Shortness of breath. Convulsions. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Dry skin. Redness. Pain. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Sore throat. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.	Fireproof. Separated from food and feedstuffs oxidants halogens	Do not transport with food and feedstuffs. Note: E F symbol T symbol R: 45-46-11-36/38-48/23/24/25-65 S: 53-45 UN Hazard Class: 3 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0015**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

**BENZENE**

ICSC: 0015

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible. As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> Reacts violently with oxidants, nitric acid, sulfuric acid and halogens causing fire and explosion hazard. Attacks plastic and rubber.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 ppm as TWA 2.5 ppm as STEL (skin) A1 BEI (ACGIH 2004). MAK: H Carcinogen category: 1 Germ cell mutagen group: 3A (DFG 2004). OSHA PEL: 1910.1028 TWA 1 ppm ST 5 ppm <a href="#">See Appendix F</a> NIOSH REL: Ca TWA 0.1 ppm ST 1 ppm <a href="#">See Appendix A</a> NIOSH IDLH: Ca 500 ppm See: <a href="#">71432</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation through the skin and by ingestion</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes the skin and the respiratory tract Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The substance may cause effects on the central nervous system , resulting in lowering of consciousness Exposure far above the occupational exposure limit value may result in unconsciousness death</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the bone marrow immune system , resulting in a decrease of blood cells. This substance is carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 80°C Melting point: 6°C Relative density (water = 1): 0.88 Solubility in water, g/100 ml at 25°C: 0.18 Vapour pressure, kPa at 20°C: 10 Relative vapour density (air = 1): 2.7</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.2 Flash point: -11°C c.c. Auto-ignition temperature: 498°C Explosive limits, vol% in air: 1.2-8.0 Octanol/water partition coefficient as log Pow: 2.13</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms.</p>	
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**NOTES**

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is indicated. The odour warning when the exposure limit value is exceeded is insufficient.

Transport Emergency Card: TEC (R)-30S1114 / 30GF1-II  
NFPA Code: H2; F3; R0

**ADDITIONAL INFORMATION**

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<b>ICSC: 0015</b>	(C) IPCS, CEC, 1994	<b>BENZENE</b>
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<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

**ACETONE**

ICSC: 0087



2-Propanone  
Dimethyl ketone  
Methyl ketone  
 $C_3H_6O / CH_3COCH_3$   
Molecular mass: 58.1

ICSC # 0087  
CAS # 67-64-1  
RTECS # [AL3150000](#)  
UN # 1090  
EC # 606-001-00-8  
April 22, 1994 Validated  
Fi, review at IHE: 10/09/89



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, alcohol-resistant foam, water in large amounts, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Sore throat. Cough. Confusion. Headache. Dizziness. Drowsiness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Dry skin.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>•EYES</b>	Redness. Pain. Blurred vision. Possible corneal damage.	Safety spectacles or face shield . Contact lenses should not be worn.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Nausea. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: self-contained breathing apparatus. Ventilation. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Then wash away with plenty of water.	Fireproof. Separated from strong oxidants. Store in an area without drain or sewer access.	F symbol Xi symbol R: 11-36-66-67 S: 2-9-16-26 UN Hazard Class: 3 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0087**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**ACETONE**

**ICSC: 0087**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> The substance can form explosive peroxides on contact with strong oxidants such as acetic acid, nitric acid, hydrogen peroxide. Reacts with chloroform and bromoform under basic conditions, causing fire and explosion hazard. Attacks plastic.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 500 ppm as TWA, 750 ppm as STEL; A4 (not classifiable as a human carcinogen); BEI issued; (ACGIH 2004). MAK: 500 ppm 1200 mg/m<sup>3</sup> Peak limitation category: I(2); Pregnancy risk group: D; (DFG 2006). OSHA PEL<sup>±</sup>: TWA 1000 ppm (2400 mg/m<sup>3</sup>) NIOSH REL: TWA 250 ppm (590 mg/m<sup>3</sup>) NIOSH IDLH: 2500 ppm 10%LEL See: <a href="#">67641</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and through the skin.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The vapour irritates the eyes and the respiratory tract. The substance may cause effects on the central nervous system , liver , kidneys and gastrointestinal tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the blood and bone marrow .</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 56°C Melting point: -95°C Relative density (water = 1): 0.8 Solubility in water: miscible Vapour pressure, kPa at 20°C: 24</p>	<p>Relative vapour density (air = 1): 2.0 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.2 Flash point: -18°C c.c. Auto-ignition temperature: 465°C Explosive limits, vol% in air: 2.2-13 Octanol/water partition coefficient as log Pow: -0.24</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	
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**NOTES**

Use of alcoholic beverages enhances the harmful effect.

Transport Emergency Card: TEC (R)-30S1090

NFPA Code: H 1; F 3; R 0;

Card has been partially updated in July 2007: see Occupational Exposure Limits.  
Card has been partially updated in January 2008: see Storage.

**ADDITIONAL INFORMATION**

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**ICSC: 0087** **ACETONE**

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

## BROMOBENZENE

ICSC: 1016



Monobromobenzene  
 Phenyl bromide  
 $C_6H_5Br$   
 Molecular mass: 157.02

ICSC # 1016  
 CAS # 108-86-1  
 RTECS # [CY9000000](#)  
 UN # 2514  
 EC # 602-060-00-9  
 April 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames. NO open flames, NO sparks, and NO smoking.	Powder, alcohol-resistant foam, water spray, carbon dioxide .
<b>EXPLOSION</b>	Above 51°C explosive vapour/air mixtures may be formed.	Above 51°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Dizziness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Nausea. Diarrhoea.	Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Remove all ignition sources. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Collect leaking and spilled liquid in sealable containers as far as possible. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Ventilation along the floor.	Do not transport with food and feedstuffs. Marine pollutant. Xi symbol N symbol R: 10-38-51/53 S: 2-61 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1016**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## BROMOBENZENE

ICSC: 1016

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic gases including hydrogen bromide.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the skin . If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the nervous system .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver and kidneys , resulting in impaired functions .</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 156.2°C Melting point: -30.7°C Relative density (water = 1): 1.5 Solubility in water: 0.04 g/100 ml at 25°C Vapour pressure, kPa at 25°C: 0.55</p>	<p>Relative vapour density (air = 1): 5.41 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 51°C c.c. Auto-ignition temperature: 566°C Explosive limits, vol% in air: 6-36.5 Octanol/water partition coefficient as log Pow: 2.99</p>
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<b>ENVIRONMENTAL DATA</b>	<p>The substance is toxic to aquatic organisms.</p>	
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### NOTES

Transport Emergency Card: TEC (R)-30GF1-III

NFPA Code: H2; F2; R0.

### ADDITIONAL INFORMATION

ICSC: 1016

**BROMOBENZENE**

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# International Chemical Safety Cards

## BROMOCHLOROMETHANE

ICSC: 0392



Chlorobromomethane  
Methylene chlorobromide  
CH<sub>2</sub>BrCl  
Molecular mass: 129.4

ICSC # 0392  
CAS # 74-97-5  
RTECS # [PA5250000](#)  
UN # 1887  
October 23, 1995 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness.	Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	(Further see Inhalation).	Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer, then remove to safe place. Personal protection: A filter respirator for organic gases and vapours.	Separated from food and feedstuffs . Dry. Ventilation along the floor.	Do not transport with food and feedstuffs. UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0392

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## BROMOCHLOROMETHANE

ICSC: 0392



<p><b>I M P O R T A N T A D V I S I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO YELLOW LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride , phosgene , hydrogen bromide . Attacks many metals including steel, aluminium, magnesium and zinc unless inhibited.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 200 ppm as TWA; (ACGIH 2004). MAK: skin absorption (H); Carcinogen category: 3B; (DFG 2004). OSHA PEL: TWA 200 ppm (1050 mg/m<sup>3</sup>) NIOSH REL: TWA 200 ppm (1050 mg/m<sup>3</sup>) NIOSH IDLH: 2000 ppm See: <a href="#">74975</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Inhalation of the substance may cause lung oedema (see Notes). The substance may cause effects on the central nervous system and blood , resulting in impaired functions and formation of carboxyhaemoglobin. Exposure may result in lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. Lungs may be affected by repeated or prolonged exposure. The substance may have effects on the kidneys and liver , resulting in impaired functions .</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 68°C Melting point: -88°C Relative density (water = 1): 2.0 Solubility in water: poor</p>	<p>Vapour pressure, kPa at 20°C: 15.6 Relative vapour density (air = 1): 4.5</p>
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<b>ENVIRONMENTAL DATA</b>	
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**NOTES**

The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered. Halon 1011 is a trade name. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.

Transport Emergency Card: TEC (R)-61GT1-III

**ADDITIONAL INFORMATION**

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<b>ICSC: 0392</b>	<b>BROMOCHLOROMETHANE</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## BROMODICHLOROMETHANE

ICSC: 0393



Dichlorobromomethane  
Methane, bromodichloro-  
CHBrCl<sub>2</sub>  
Molecular mass: 163.8

ICSC # 0393  
CAS # 75-27-4  
RTECS # [PA5310000](#)  
April 03, 2006 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	
• <b>INHALATION</b>	See Notes.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
	Separated from strong oxidants, strong bases and magnesium. Ventilation along the floor.	Signal: Warning Excl mark-Health haz Harmful if swallowed Suspected of causing cancer May causes damage to liver and kidneys through prolonged or repeated exposure if swallowed

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0393** Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## BROMODICHLOROMETHANE

ICSC: 0393

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b>	<b>ROUTES OF EXPOSURE:</b>
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<p><b>M P O R T A N T D A T A</b></p>	<p>COLOURLESS LIQUID</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive gases, including hydrogen bromide and hydrogen chloride. Reacts with strong bases , strong oxidants and magnesium .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: skin absorption (H); Carcinogen category: 2; Germ cell mutagen group: 3B (DFG 2009).</p>	<p>The substance can be absorbed into the body by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the kidneys and liver , by ingestion , resulting in impaired functions . This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 90°C Melting point: -57°C Density: 1.9 g/cm<sup>3</sup> Solubility in water, g/100 ml at 20°C: 0.45 (poor)</p>	<p>Vapour pressure, kPa at 20°C: 6.6 Relative vapour density (air = 1): 5.6 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.3 Octanol/water partition coefficient as log Pow: 2</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	
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**NOTES**

Halon 1021 is a trade name. Bromodichloromethane can be found in chlorinated water. Health effects of exposure to the substance have not been investigated adequately other than by ingestion.

Card has been partially updated in August 2007: see GHS classification.  
Card has been partially updated in April 2010: see Occupational Exposure Limits.

**ADDITIONAL INFORMATION**

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<b>ICSC: 0393</b>	(C) IPCS, CEC, 1994	<b>BROMODICHLOROMETHANE</b>
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<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## BROMOFORM

ICSC: 0108



Tribromomethane  
Methenyl tribromide  
CHBr<sub>3</sub>  
Molecular mass: 252.7

ICSC # 0108  
CAS # 75-25-2  
RTECS # [PB5600000](#)  
UN # 2515  
EC # 602-007-00-X  
April 22, 1994 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Reddening of the face. Salivation. Disturbance of movements. Convulsions. Cough. Dizziness. Headache. Laboured breathing. Unconsciousness. Loss of memory. Shock.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.	Separated from strong bases, food and feedstuffs, oxidants, metals. Keep in the dark. Ventilation along the floor. Store only if stabilized.	Do not transport with food and feedstuffs. Marine pollutant. T symbol N symbol R: 23-36/38-51/53 S: 1/2-28-45-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the

**ICSC: 0108**

European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**BROMOFORM**

**ICSC: 0108**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR. TURNS YELLOW ON EXPOSURE TO LIGHT AND AIR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic and corrosive fumes including hydrogen bromide and bromine. The substance is a weak acid. Reacts violently with oxidants, bases in powdered form and is corrosive to most metals. Reacts with alkaline metals, powdered aluminium, zinc, magnesium, and acetone under basic conditions, causing fire and explosion hazard. Attacks some forms of plastic, rubber, coatings.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 ppm as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: Carcinogen category: 3B; (DFG 2004). OSHA PEL: TWA 0.5 ppm (5 mg/m<sup>3</sup>) skin NIOSH REL: TWA 0.5 ppm (5 mg/m<sup>3</sup>) skin NIOSH IDLH: 850 ppm See: <a href="#">75252</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and through the skin.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Lachrymation. The substance is irritating to the respiratory tract , the eyes and the skin . The substance may cause effects on the central nervous system and liver , resulting in impaired functions.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the central nervous system and liver , resulting in tissue lesions .</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 149-152°C Melting point: 8.3°C Relative density (water = 1): 2.9 Solubility in water, g/100 ml at 20°C: 0.1</p>	<p>Vapour pressure, kPa at 20°C: 0.7 Relative vapour density (air = 1): 8.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.05 Octanol/water partition coefficient as log Pow: 2.38</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous to the environment; special attention should be given to aquatic organisms. It is strongly advised not to let the chemical enter into the environment because it persists in the environment.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert. Do NOT take working clothes home. Card has been partly updated in April 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-61S2515

**ADDITIONAL INFORMATION**

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**ICSC: 0108**

**BROMOFORM**

(C) IPCS, CEC, 1994

<p><b>IMPORTANT</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject.</p>
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**LEGAL  
NOTICE:**

The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



# International Chemical Safety Cards

## METHYL BROMIDE

ICSC: 0109



Bromomethane  
Monobromomethane  
CH<sub>3</sub>Br  
Molecular mass: 94.9  
(cylinder)

ICSC # 0109  
CAS # 74-83-9  
RTECS # [PA4900000](#)  
UN # 1062  
EC # 602-002-00-2  
November 25, 2009 Validated  
Fi, review at IHE: 10/09/89



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with aluminium, zinc, magnesium or pure oxygen.	Shut off supply; if not possible and no risk to surroundings, let the fire burn itself out; in other cases extinguish with appropriate extinguishing agent .
<b>EXPLOSION</b>	Risk of fire and explosion on contact with aluminium, zinc, magnesium or oxygen.		In case of fire: keep cylinder cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR! FIRST AID: USE PERSONAL PROTECTION
<b>•INHALATION</b>	Cough. Sore throat. Dizziness. Headache. Abdominal pain. Vomiting. Weakness. Shortness of breath. Confusion. Hallucinations. Loss of speech. Incoordination. Convulsions. Symptoms may be delayed (see Notes).	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer immediately for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Tingling. Itching. Burning sensation. Redness. Blisters. Pain. ON CONTACT WITH LIQUID: FROSTBITE. (Further see Inhalation).	Cold-insulating gloves. Protective clothing.	Rinse skin with plenty of water or shower. ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Refer immediately for medical attention.
<b>•EYES</b>	Redness. Pain. Blurred vision. Temporary loss of vision.	Safety goggles , face shield or eye protection in combination with breathing protection.	Rinse with plenty of water (remove contact lenses if easily possible). Refer immediately for medical attention.
<b>•INGESTION</b>			

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Personal protection: complete protective clothing including self-contained breathing apparatus. Ventilation. NEVER direct water	Fireproof if in building. Separated from strong oxidants, aluminium and cylinders containing oxygen. Cool. Ventilation along the floor.	T symbol N symbol R: 23/25-36/37/38-48/20-68-50-59

jet on liquid.

S: 1/2-15-27-36/39-38-45-59-61  
 UN Hazard Class: 2.3  
 Signal: Danger  
 Cylinder-Skull-Health haz  
 Contains gas under pressure; may explode if heated  
 Toxic if inhaled (gas)  
 Causes skin irritation  
 Causes eye irritation  
 Causes damage to lungs, kidneys and central nervous system if inhaled  
 Causes damage to liver, kidneys and central nervous system through prolonged or repeated exposure if inhaled  
 Harms public health and the environment by destroying ozone in the upper atmosphere

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 0109**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## METHYL BROMIDE

**ICSC: 0109**

<p><b>I M P O R T A N T A T T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  ODOURLESS AND COLOURLESS COMPRESSED LIQUEFIED GAS.</p> <p><b>PHYSICAL DANGERS:</b>                  The gas is heavier than air and may accumulate in lowered spaces causing a deficiency of oxygen.</p> <p><b>CHEMICAL DANGERS:</b>                  The substance decomposes on heating producing &lt;313353290toxic and corrosive fumes \including hydrogen bromide, bromine and carbon oxybromide. Reacts with strong oxidants. Attacks many metals in presence of water. Attacks aluminium, zinc and magnesium with formation of pyrophoric compounds, causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV: 1 ppm as TWA; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2009).                  MAK: skin absorption (H);                  Carcinogen category: 3B; BLW issued (DFG 2009).                  OSHA PEL<sup>†</sup>: C 20 ppm (80 mg/m<sup>3</sup>) skin                  NIOSH REL: Ca <a href="#">See Appendix A</a>                  NIOSH IDLH: Ca 250 ppm See: <a href="#">74839</a></p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation and through the skin , also as a vapour!</p> <p><b>INHALATION RISK:</b>                  On loss of containment, a harmful concentration of this gas in the air will be reached very quickly.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance, as a liquid, is severely irritating to the skin and is irritating to the eyes and the respiratory tract. Inhalation may cause lung oedema (see Notes). Rapid evaporation of the liquid may cause frostbite. The substance may cause effects on the central nervous system , and kidneys. The effects may be delayed up to 48 hours. Exposure at high levels may result in death. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The substance may have effects on the central nervous system, Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 4°C                  Melting point: -94°C                  Relative density (water = 1): 1.7 at 0 C                  Solubility in water, g/100 ml at 20°C: 1.5                  instead of Solubility in water, ml/100 ml at 20°C: 1.5                  sister PI suggestion                  Vapour pressure, kPa at 20°C: 1893</p>	<p>Relative vapour density (air = 1): 3.3                  Flash point: 194°C                  Auto-ignition temperature: 537°C                  Explosive limits, vol% in air: 10-16                  Octanol/water partition coefficient as log Pow: 1.19</p>
	<p>The substance is toxic to aquatic organisms. This substance may be hazardous in the environment;</p> 	

<b>ENVIRONMENTAL DATA</b>	special attention should be given to its impact on the ozone layer. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Toxic effects on the nervous system may be delayed for several hours. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered. Turn leaking cylinder with the leak up to prevent escape of gas in liquid state. by IPCS Dec 09 - since inhal symptoms mentions delayed effects and these are not just pulmonary

NFPA Code: H 3; F 1; R 0;

**ADDITIONAL INFORMATION**

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**ICSC: 0109** **METHYL BROMIDE**

(C) IPCS, CEC, 1994

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

## CARBON TETRACHLORIDE

ICSC: 0024



Tetrachloromethane  
Tetrachlorocarbon  
Tetra  
CCl<sub>4</sub>

Molecular mass: 153.8

ICSC # 0024  
CAS # 56-23-5  
RTECS # [FG4900000](#)  
UN # 1846  
EC # 602-008-00-5  
November 04, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
<b>•INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Diarrhoea. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give one or two glasses of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.	Separated from food and feedstuffs, metals (see Chemical Dangers). Ventilation along the floor. Cool.	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Marine pollutant. T symbol N symbol R: 23/24/25-40-48/23-52/53-59 S: 1/2-23-36/37-45-59-61 UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the

ICSC: 0024

OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## CARBON TETRACHLORIDE

ICSC: 0024

<p><b>I</b></p> <p><b>M</b></p> <p><b>P</b></p> <p><b>O</b></p> <p><b>R</b></p> <p><b>T</b></p> <p><b>A</b></p> <p><b>N</b></p> <p><b>T</b></p> <p><b>D</b></p> <p><b>A</b></p> <p><b>T</b></p> <p><b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes (hydrogen chloride ICSC0163, chlorine fumes ICSC0126, phosgene ICSC0007). Reacts with some metals such as aluminium, magnesium, zinc causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 ppm as TWA, 10 ppm as STEL; (skin); A2 (suspected human carcinogen); (ACGIH 2004). MAK: 0.5 ppm, 3.2 mg/m<sup>3</sup>; Peak limitation category: II(2); skin absorption (H); Carcinogen category: 4; Pregnancy risk group: C; (DFG 2006). OSHA PEL<sub>T</sub>: TWA 10 ppm C 25 ppm 200 ppm (5-minute maximum peak in any 4 hours) NIOSH REL: Ca ST 2 ppm (12.6 mg/m<sup>3</sup>) 60-minute <a href="#">See Appendix A</a> NIOSH IDLH: Ca 200 ppm See: <a href="#">56235</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes . The substance may cause effects on the liver , kidneys and central nervous system , resulting in unconsciousness. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 76.5°C Melting point: -23°C Relative density (water = 1): 1.59 Solubility in water, g/100 ml at 20°C: 0.1 poor</p>	<p>Vapour pressure, kPa at 20°C: 12.2 Relative vapour density (air = 1): 5.3 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.5 Octanol/water partition coefficient as log Pow: 2.64</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms. This substance may be hazardous in the environment; special attention should be given to its impact on the ozone layer.</p>	
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**NOTES**

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is suggested. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated in April 2005. See sections Occupational Exposure Limits, Emergency Response. Card has been partly updated in October 2006. See sections Occupational Exposure Limits and Ingestion first aid.

Transport Emergency Card: TEC (R)-61S1846

NFPA Code: H 3; F 0; R 0;

**ADDITIONAL INFORMATION**

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ICSC: 0024

CARBON TETRACHLORIDE

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



# International Chemical Safety Cards

**CHLOROBENZENE**

ICSC: 0642



Benzene chloride  
Chlorobenzol  
Phenyl chloride  
C<sub>6</sub>H<sub>5</sub>Cl  
Molecular mass: 112.6

ICSC # 0642  
CAS # 108-90-7  
RTECS # [CZ0175000](#)  
UN # 1134  
EC # 602-033-00-1

November 27, 2003 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 27°C explosive vapour/air mixtures may be formed.	Above 27°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Drowsiness. Headache. Nausea. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness. Dry skin.	Protective gloves.	Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. (See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants.	Xn symbol N symbol R: 10-20-51/53 S: 2-24/25-61 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0642**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## CHLOROBENZENE

ICSC: 0642

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating, on contact with hot surfaces or flames producing toxic and corrosive fumes . Reacts violently with strong oxidants causing fire and explosion hazard. Attacks rubber and some plastic.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; A3; BEI issued; (ACGIH 2003). MAK: 10 ppm, 47 mg/m<sup>3</sup>; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2003). OSHA PEL: TWA 75 ppm (350 mg/m<sup>3</sup>) NIOSH REL: <a href="#">See Appendix D</a> NIOSH IDLH: 1000 ppm See: <a href="#">108907</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin . If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system , resulting in lowering of consciousness .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the liver and kidneys .</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 132°C Melting point: -45°C Relative density (water = 1): 1.11 Solubility in water, g/100 ml at 20°C: 0.05 Vapour pressure, kPa at 20°C: 1.17 Relative vapour density (air = 1): 3.88</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.03 Flash point: 27°C c.c. Auto-ignition temperature: 590°C Explosive limits, vol% in air: 1.3-11 Octanol/water partition coefficient as log Pow: 2.18-2.84</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms. It is strongly advised that this substance does not enter the environment.</p>	
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### NOTES

Do NOT use in the vicinity of a fire or a hot surface, or during welding.

Transport Emergency Card: TEC (R)-30S1134

NFPA Code: H2; F3; R0;

### ADDITIONAL INFORMATION

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ICSC: 0642

CHLOROBENZENE

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

## 1-CHLOROETHANE

ICSC: 0132



Ethyl chloride  
 Monochloroethane  
 $C_2H_5Cl / CH_3CH_2Cl$   
 Molecular mass: 64.5  
 (cylinder)

ICSC # 0132  
 CAS # 75-00-3  
 RTECS # [KH7525000](#)  
 UN # 1037  
 EC # 602-009-00-0  
 October 04, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Extremely flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Shut off supply; if not possible and no risk to surroundings, let the fire burn itself out; in other cases extinguish with powder, carbon dioxide.
<b>EXPLOSION</b>	Gas/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding) if in liquid state. Use non-sparking handtools.	In case of fire: keep cylinder cool by spraying with water.
<b>EXPOSURE</b>		<b>STRICT HYGIENE!</b>	
• <b>INHALATION</b>	Dizziness. Dullness. Headache. Abdominal cramps.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	ON CONTACT WITH LIQUID: FROSTBITE.	Cold-insulating gloves. Protective clothing.	ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Redness. Pain. Blurred vision.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Ventilation. Personal protection: self-contained breathing apparatus. Do NOT let this chemical enter the environment.	Fireproof.	Special insulated cylinder. Special fittings. F+ symbol Xn symbol R: 12-40-52/53 S: 2-9-16-33-36/37-61 UN Hazard Class: 2.1

**SEE IMPORTANT INFORMATION ON BACK**


ICSC: 0132

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the

# International Chemical Safety Cards

## 1-CHLOROETHANE

ICSC: 0132

<b>I M P O R T A N T I N F O R M A T I O N</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS COMPRESSED LIQUEFIED GAS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The gas is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating or on burning producing toxic gases ( hydrogen chloride - see ICSC 0163, phosgene - see ICSC 0007).</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 100 ppm as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: skin absorption (H); Carcinogen category: 3B; (DFG 2004). EU OEL: 268 mg/m<sup>3</sup>; 1200 ppm as TWA (EU 2006). OSHA PEL: TWA 1000 ppm (2600 mg/m<sup>3</sup>) NIOSH REL: Handle with caution in the workplace. <a href="#">See Appendix C</a> (Chloroethanes) NIOSH IDLH: 3800 ppm 10%LEL See: <a href="#">75003</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> A harmful concentration of this gas in the air will be reached very quickly on loss of containment.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is mildly irritating to the eyes , the skin and the respiratory tract . Rapid evaporation of the liquid may cause frostbite. The substance may cause effects on the central nervous system . Exposure far above the OEL may result in unconsciousness , cardiac dysrhythmia and death .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 12.5°C Melting point: -138°C Relative density (water = 1): 0.918 Solubility in water, g/100 ml at 20°C: 0.574 Vapour pressure, kPa at 20°C: 133.3 Relative vapour density (air = 1): 2.22	Flash point: -50°C c.c. Auto-ignition temperature: 519°C Explosive limits, vol% in air: 3.6-14.8 Octanol/water partition coefficient as log Pow: 1.54
<b>ENVIRONMENTAL DATA</b>	The substance is harmful to aquatic organisms. 	
<b>NOTES</b>		
<p>Use of alcoholic beverages enhances the harmful effect. Rinse contaminated clothes (fire hazard) with plenty of water. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Turn leaking cylinder with the leak up to prevent escape of gas in liquid state. Card has been partly updated in April 2005: see sections Occupational Exposure Limits, Emergency Response. Card has been partly updated in October 2006: see section Occupational Exposure Limits.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-20S1037 or 20G2F</p> <p style="text-align: right;">NFPA Code: H 2; F 4; R 0;</p>		
<b>ADDITIONAL INFORMATION</b>		
<b>ICSC: 0132</b>	<b>1-CHLOROETHANE</b>	
(C) IPCS, CEC, 1994		

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made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## CHLOROFORM

ICSC: 0027



Trichloromethane  
Methane trichloride  
Formyl trichloride  
CHCl<sub>3</sub>

Molecular mass: 119.4

ICSC # 0027  
CAS # 67-66-3  
RTECS # [FS9100000](#)  
UN # 1888  
EC # 602-006-00-4  
November 04, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. See Notes. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!</b>	
<b>•INHALATION</b>	Cough. Dizziness. Drowsiness. Headache. Nausea. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Redness. Pain. Dry skin.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.	Separated from food and feedstuffs and incompatible materials ,( see Chemical Dangers ). Ventilation along the floor.	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Xn symbol R: 22-38-40-48/20/22 S: 2-36/37 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

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ICSC: 0027

European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## CHLOROFORM

ICSC: 0027

<p style="text-align: center;"><b>I M P O R T A N T A D V E R T I S E</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> VOLATILE COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes (hydrogen chloride ICSC0163,phosgene ICSC0007 andchlorine fumes ICSC0126). Reacts violently withstrong bases,strong oxidants, some metals, such as aluminium, magnesium and zinc, causing fire and explosion hazard. Attacks plastic, rubber and coatings.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: 0.5 ppm, 2.5 mg/m<sup>3</sup>; Peak limitation category: II(2); skin absorption (H); Carcinogen category: 4; Pregnancy risk group: C; (DFG 2004). OSHA PEL<sup>†</sup>: C 50 ppm (240 mg/m<sup>3</sup>) NIOSH REL: Ca ST 2 ppm (9.78 mg/m<sup>3</sup>) 60-minute <a href="#">See Appendix A</a> NIOSH IDLH: Ca 500 ppm See: <a href="#">67663</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes . The substance may cause effects on the central nervous system , liver and kidneys . The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the liver and kidneys . This substance is possibly carcinogenic to humans.</p>
<p style="text-align: center;"><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 62°C Melting point: -64°C Relative density (water = 1): 1.48 Solubility in water, g/100 ml at 20°C: 0.8</p>	<p>Vapour pressure, kPa at 20°C: 21.2 Relative vapour density (air = 1): 4.12 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.7 Octanol/water partition coefficient as log Pow: 1.97</p>
<p style="text-align: center;"><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p> 	
<p><b>NOTES</b></p>		
<p>Turns combustible on addition of small amounts of a flammable substance or an increase in the oxygen content of the air. Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is indicated. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated in April 2005. See section Occupational Exposure Limits.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61S1888</p> <p style="text-align: right;">NFPA Code: H 2; F 0; R 0;</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p>ICSC: 0027</p>	<p>CHLOROFORM</p>	
<p>(C) IPCS, CEC, 1994</p>		

**IMPORTANT  
LEGAL  
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# International Chemical Safety Cards

## METHYL CHLORIDE

ICSC: 0419



Chloromethane  
Monochloromethane  
CH<sub>3</sub>Cl

Molecular mass: 50.5

ICSC # 0419  
CAS # 74-87-3  
RTECS # [PA6300000](#)  
UN # 1063  
EC # 602-001-00-7  
March 25, 1999 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Heating will cause rise in pressure with risk of bursting.	NO open flames, NO sparks, and NO smoking.	Shut off supply; if not possible and no risk to surroundings, let the fire burn itself out; in other cases extinguish with water spray.
<b>EXPLOSION</b>	Gas/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Use non-sparking handtools.	In case of fire: keep cylinder cool by spraying with water. Combat fire from a sheltered position.
<b>EXPOSURE</b>		<b>STRICT HYGIENE!</b>	
• <b>INHALATION</b>	Staggering gait. Dizziness. Headache. Nausea. Vomiting. Convulsions. Unconsciousness. See Notes.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
• <b>SKIN</b>	<b>MAY BE ABSORBED! ON CONTACT WITH LIQUID: FROSTBITE.</b>	Cold-insulating gloves. Protective clothing.	<b>ON FROSTBITE:</b> rinse with plenty of water, do NOT remove clothes.
• <b>EYES</b>	(See Skin).	Safety goggles face shield or eye protection in combination with breathing protection.	
• <b>INGESTION</b>			

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Ventilation. NEVER direct water jet on liquid. Personal protection: complete protective clothing including self-contained breathing apparatus.	Fireproof. Ventilation along the floor.	F+ symbol Xn symbol R: 12-40-48/20 S: 2-9-16-33 UN Hazard Class: 2.1

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0419**

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# International Chemical Safety Cards

# METHYL CHLORIDE

ICSC: 0419

<b>I M P O R T A N T A D V I S I O N</b>	<b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUEFIED GAS.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and through the skin.
	<b>PHYSICAL DANGERS:</b> The gas is heavier than air and may travel along the ground; distant ignition possible, and may accumulate in low ceiling spaces causing deficiency of oxygen. See Notes.	<b>INHALATION RISK:</b> A harmful concentration of this gas in the air will be reached very quickly on loss of containment.
	<b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes including hydrogen chloride and phosgene . Reacts violently with powdered aluminium, powdered zinc, aluminium trichloride and ethylene causing fire and explosion hazard. Attacks many metals in the presence of moisture.	<b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The liquid may cause frostbite. The substance may cause effects on the central nervous system . Exposure may result in unconsciousness. Exposure far above the OEL may result in liver, cardiovascular system and kidney damage. Medical observation is indicated.
	<b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 50 ppm as TWA, 100 ppm as STEL; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2004). MAK: 50 ppm 100 mg/m <sup>3</sup> ; Peak limitation category: II(2); skin absorption (H); Carcinogen category: 3B; Pregnancy risk group: B; (DFG 2004). OSHA PEL <sup>†</sup> : TWA 100 ppm C 200 ppm 300 ppm (5-minute maximum peak in any 3 hours) NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca 2000 ppm See: <a href="#">74873</a>	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the central nervous system , resulting in effects measured using behavioural tests. Animal tests show that this substance possibly causes toxic effects upon human reproduction.

<b>PHYSICAL PROPERTIES</b>	Boiling point: -24.2°C Melting point: -97.6°C Relative density (water = 1): 0.92 Solubility in water, g/100 ml at 25°C: 0.5 Vapour pressure, kPa at 21°C: 506	Relative vapour density (air = 1): 1.8 Flash point: Flammable Gas Auto-ignition temperature: 632°C Explosive limits, vol% in air: 8.1-17.4 Octanol/water partition coefficient as log Pow: 0.91
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<b>ENVIRONMENTAL DATA</b>	
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**NOTES**

Following intoxication patient should be observed carefully for 48 hours. Check oxygen content before entering area. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.

Transport Emergency Card: TEC (R)-20S1063 or 20G2F

NFPA Code: H2; F4; R0;

**ADDITIONAL INFORMATION**

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<b>ICSC: 0419</b>	<b>METHYL CHLORIDE</b>
(C) IPCS, CEC, 1994	

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# Material Safety Data Sheet

## cis-1,2-Dichloroethylene, 97%

ACC# 97773

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** cis-1,2-Dichloroethylene, 97%

**Catalog Numbers:** AC113380000, AC113380025, AC113380100

**Synonyms:** cis-Acetylene dichloride.

**Company Identification:**

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01

**For emergencies in the US, call CHEMTREC:** 800-424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
156-59-2	cis-1,2-Dichloroethylene	97	205-859-7

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: Clear liquid. Flash Point: 6 deg C.

**Warning! Flammable liquid and vapor.** Harmful if inhaled. Unstabilized substance may polymerize. Causes eye and skin irritation. May be harmful if swallowed. May cause respiratory tract irritation.

**Target Organs:** Central nervous system, respiratory system, eyes, skin.

#### Potential Health Effects

**Eye:** Causes moderate eye irritation.

**Skin:** Causes moderate skin irritation. May cause dermatitis.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. May cause central nervous system depression.

**Inhalation:** May cause respiratory tract irritation. May cause narcotic effects in high concentration. Eye irritation, vertigo, and nausea were reported in humans exposed at 2200 ppm.

**Chronic:** Not available. Some German investigators reported fatty degeneration of the liver upon repeated narcotic doses in rats and

### Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.

**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Fire or excessive heat may result in violent rupture of the container due to bulk polymerization. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Hazardous polymerization may occur under fire conditions.

**Extinguishing Media:** Use water fog, dry chemical, carbon dioxide, or regular foam.

**Flash Point:** 6 deg C ( 42.80 deg F)

**Autoignition Temperature:** 440 deg C ( 824.00 deg F)

**Explosion Limits, Lower:** 9.70 vol %

**Upper:** 12.80 vol %

**NFPA Rating:** (estimated) Health: 2; Flammability: 3; Instability: 2

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Pure vapor will be uninhibited and may polymerize in vents or other confined spaces.

**Storage:** Keep away from sources of ignition. Store in a tightly closed container. Flammables-area. Store protected from light and air.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
cis-1,2-Dichloroethylene	200 ppm TWA	none listed	none listed

**OSHA Vacated PELs:** cis-1,2-Dichloroethylene: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance:** Clear  
**Odor:** Pleasant odor  
**pH:** Not available.  
**Vapor Pressure:** 201 mm Hg @ 25 deg C  
**Vapor Density:** 3.34 (air=1)  
**Evaporation Rate:**Not available.  
**Viscosity:** Not available.  
**Boiling Point:** 60 deg C @ 760 mm Hg  
**Freezing/Melting Point:**-80 deg C  
**Decomposition Temperature:**Not available.  
**Solubility:** Insoluble.  
**Specific Gravity/Density:**1.2800  
**Molecular Formula:**C2H2Cl2  
**Molecular Weight:**96.94

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. This material is a monomer and may polymerize under certain conditions if the stabilizer is lost.  
**Conditions to Avoid:** Light, ignition sources, exposure to air, excess heat.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases, copper.  
**Hazardous Decomposition Products:** Hydrogen chloride, phosgene, carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** May occur.

## Section 11 - Toxicological Information

**RTECS#:**  
**CAS#** 156-59-2: KV9420000  
**LD50/LC50:**  
CAS# 156-59-2:  
Inhalation, rat: LC50 = 13700 ppm;  
**Carcinogenicity:**  
CAS# 156-59-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.  
**Epidemiology:** No data available.  
**Teratogenicity:** No data available.  
**Reproductive Effects:** No data available.  
**Mutagenicity:** No data available.  
**Neurotoxicity:** No data available.  
**Other Studies:**

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	DOT regulated - small quantity provisions apply (see 49CFR173.4)	1,2-DICHLOROETHYLENE
<b>Hazard Class:</b>		3
<b>UN Number:</b>		UN1150
<b>Packing Group:</b>		II

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 156-59-2 is listed on the TSCA inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 156-59-2 can be found on the following state right to know lists: Pennsylvania, Massachusetts.

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### Hazard Symbols:

XN F

#### Risk Phrases:

R 11 Highly flammable.  
R 20 Harmful by inhalation.  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:**

S 16 Keep away from sources of ignition - No smoking.  
S 29 Do not empty into drains.  
S 7 Keep container tightly closed.  
S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

**WGK (Water Danger/Protection)**

CAS# 156-59-2: No information available.

**Canada - DSL/NDSL**

CAS# 156-59-2 is listed on Canada's NDSL List.

**Canada - WHMIS**

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

<b>Section 16 - Additional Information</b>
--

**MSDS Creation Date:** 2/09/1998

**Revision #5 Date:** 3/16/2007

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*

---

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : *cis*-1,3-Dichloropropene

Product Number : 377414  
Brand : Aldrich

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For : (314) 776-6555  
both supplier and  
manufacturer)

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

---

**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Flammable liquid, Toxic by ingestion, Harmful by skin absorption., Skin sensitiser, Irritant

**Target Organs**

Liver, Kidney

**GHS Classification**

Flammable liquids (Category 3)  
Acute toxicity, Oral (Category 3)  
Acute toxicity, Inhalation (Category 4)  
Acute toxicity, Dermal (Category 4)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Skin sensitization (Category 1)  
Specific target organ toxicity - single exposure (Category 3)  
Aspiration hazard (Category 1)  
Acute aquatic toxicity (Category 1)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapour.  
H301 Toxic if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 + H332 Harmful in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 Do NOT induce vomiting.

**HMIS Classification**

**Health hazard:** 2  
**Flammability:** 3  
**Physical hazards:** 0

**NFPA Rating**

**Health hazard:** 2  
**Fire:** 3  
**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** Toxic if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>3</sub>H<sub>4</sub>Cl<sub>2</sub>  
Molecular Weight : 110.97 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>(Z)-1,3-Dichloropropene</b>			
10061-01-5	233-195-8	602-030-00-5	-

---

**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

**5. FIRE-FIGHTING MEASURES**

**Conditions of flammability**

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

**Further information**

Use water spray to cool unopened containers.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	104 °C (219 °F) - lit.
Flash point	23.9 °C (75.0 °F) - closed cup
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	1.225 g/cm <sup>3</sup> at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Aluminum, Strong oxidizing agents, Metals, Halogens

### Hazardous decomposition products

Other decomposition products - no data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

no data available

#### Inhalation LC50

#### Dermal LD50

#### Other information on acute toxicity

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

May cause sensitization by skin contact.

The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.
<b>Skin</b>	Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

no data available

**Additional Information**

RTECS: UC8325000

---

**12. ECOLOGICAL INFORMATION**

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

---

**13. DISPOSAL CONSIDERATIONS**

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

UN number: 2047 Class: 3 Packing group: II

Proper shipping name: Dichloropropenes

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

UN number: 2047 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: DICHLOROPROPENES

Marine pollutant: No

**IATA**

UN number: 2047 Class: 3 Packing group: II

Proper shipping name: Dichloropropenes

---

**15. REGULATORY INFORMATION**

**OSHA Hazards**

Flammable liquid, Toxic by ingestion, Harmful by skin absorption., Skin sensitiser, Irritant

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
(Z)-1,3-Dichloropropene	10061-01-5	1993-04-24

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
(Z)-1,3-Dichloropropene	10061-01-5	1993-04-24

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
(Z)-1,3-Dichloropropene	10061-01-5	1993-04-24

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

**16. OTHER INFORMATION****Further information**

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Dibromochloromethane

Product Number : 206326  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

---

**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Toxic by ingestion

**GHS Label elements, including precautionary statements**

Pictogram



Signal word : Warning

Hazard statement(s)  
H302 : Harmful if swallowed.Precautionary statement(s)  
none**HMIS Classification**

Health hazard: 2  
Flammability: 0  
Physical hazards: 0

**NFPA Rating**

Health hazard: 2  
Fire: 0  
Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** : May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** : May cause eye irritation.  
**Ingestion** : Toxic if swallowed.

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Chlorodibromomethane

Formula :  $\text{CHBr}_2\text{Cl}$   
Molecular Weight : 208.28 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Dibromochloromethane</b>			
124-48-1	204-704-0	-	-

---

#### 4. FIRST AID MEASURES

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

---

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

##### Environmental precautions

Do not let product enter drains.

##### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
Normal measures for preventive fire protection.

##### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

---

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

##### Personal protective equipment

###### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid, clear
Colour	light yellow

**Safety data**

pH	no data available
Melting point	-22 °C (-8 °F) - lit.
Boiling point	119 - 120 °C (246 - 248 °F) at 997 hPa (748 mmHg) - lit.
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	2.451 g/cm <sup>3</sup> at 25 °C (77 °F)
Water solubility	no data available

---

**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

no data available

**Materials to avoid**

Strong bases, Strong oxidizing agents, Magnesium

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, Hydrogen bromide gas

---

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 370.0 mg/kg

Remarks: Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage).

Behavioral:Somnolence (general depressed activity). Behavioral:Tremor.

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

prolonged or repeated exposure can cause:, Nausea, Dizziness, Headache, narcosis

**Additional Information**

RTECS: PA6360000

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish LC50 - Cyprinus carpio (Carp) - 34 mg/l - 5 d

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

---

### 13. DISPOSAL CONSIDERATIONS

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

### 14. TRANSPORT INFORMATION

**DOT (US)**

UN-Number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Dibromochloromethane)  
Reportable Quantity (RQ): 100 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

---

### 15. REGULATORY INFORMATION

**OSHA Hazards**

Toxic by ingestion

**DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

Dibromochloromethane	CAS-No. 124-48-1
----------------------	---------------------

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

Dibromochloromethane	CAS-No. 124-48-1	Revision Date 2007-03-01
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**Pennsylvania Right To Know Components**

Dibromochloromethane	CAS-No. 124-48-1	Revision Date 2007-03-01
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**New Jersey Right To Know Components**

Dibromochloromethane	CAS-No. 124-48-1	Revision Date 2007-03-01
----------------------	---------------------	-----------------------------

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

### 16. OTHER INFORMATION

**Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

## DIBROMOMETHANE

ICSC: 0354



Methylene bromide  
Methylene dibromide  
 $\text{CH}_2\text{Br}_2$   
Molecular mass: 173.8

ICSC # 0354  
CAS # 74-95-3  
RTECS # [PA7350000](#)  
UN # 2664  
EC # 602-003-00-8  
October 27, 1995 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness.	Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	(Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable, non-aluminium containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: A filter respirator for organic gases and vapours.	Separated from food and feedstuffs . Ventilation along the floor.	Do not transport with food and feedstuffs. Xn symbol R: 20-52/53 S: 2-24-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0354**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**DIBROMOMETHANE**

ICSC: 0354

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating, on burning or on contact with hot surfaces producing toxic and irritating fumes including hydrogen bromide .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the nervous system and blood , resulting in impaired functions and formation of carboxyhaemoglobinemia. Exposure could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the liver and kidneys.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 97°C Melting point: -52.7°C Relative density (water = 1): 2.5 Solubility in water, g/100 ml at 15°C: 1.2	Vapour pressure, kPa at 20°C: 5 Relative vapour density (air = 1): 6.0 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.25
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<b>ENVIRONMENTAL DATA</b>	
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**NOTES**

Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-61GT1-III

**ADDITIONAL INFORMATION**

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**ICSC: 0354****DIBROMOMETHANE**

(C) IPCS, CEC, 1994

<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## DICHLORODIFLUOROMETHANE

ICSC: 0048



Difluorodichloromethane  
 R 12  
 CFC 12  
 $\text{CCl}_2\text{F}_2$   
 Molecular mass: 120.9  
 (cylinder)

ICSC # 0048  
 CAS # 75-71-8  
 RTECS # [PA8200000](#)  
 UN # 1028  
 July 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep cylinder cool by spraying with water.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Cardiac arrhythmia. Confusion. Drowsiness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	ON CONTACT WITH LIQUID: FROSTBITE.	Cold-insulating gloves.	ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation.	Separated from incompatible materials . See Chemical Dangers. Cool. Ventilation along the floor.	Special insulated cylinder. UN Hazard Class: 2.2

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0048**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## DICHLORODIFLUOROMETHANE

ICSC: 0048

<p><b>I M P O R T A N T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS COMPRESSED LIQUEFIED GAS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The gas is heavier than air and may accumulate in low ceiling spaces causing deficiency of oxygen.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive gases(hydrogen chloride ICSC 0163,phosgene ICSC 0007,hydrogen fluoride ICSC 0283,carbonyl fluoride ICSC 0633). Reacts violently with metals such as zinc and powdered aluminium . Attacks magnesium and its alloys.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1000 ppm as TWA A4 (ACGIH 2001). MAK: 1000 ppm; 5000 mg/m<sup>3</sup>; IV, C (DFG 2001). OSHA PEL: TWA 1000 ppm (4950 mg/m<sup>3</sup>) NIOSH REL: TWA 1000 ppm (4950 mg/m<sup>3</sup>) NIOSH IDLH: 15,000 ppm See: <a href="#">75718</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> On loss of containment this liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Rapid evaporation of the liquid may cause frostbite. The substance may cause effects on the cardiovascular system and central nervous system , resulting in cardiac disorders and central nervous system depression. Exposure could cause lowering of consciousness. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: -30°C Melting point: -158°C Relative density (water = 1): 1.5 Solubility in water, g/100 ml at 20°C: 0.03</p>	<p>Vapour pressure, kPa at 20°C: 568 Relative vapour density (air = 1): 4.2 Octanol/water partition coefficient as log Pow: 2.16</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous to the environment; special attention should be given to its impact on the ozone layer.</p>	
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**NOTES**

High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death. Check oxygen content before entering area. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Turn leaking cylinder with the leak up to prevent escape of gas in liquid state. Freon 12, Frigen 12, Halon 122 are trade names.

Transport Emergency Card: TEC (R)-20G2A

**ADDITIONAL INFORMATION**

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<b>ICSC: 0048</b>	(C) IPCS, CEC, 1994	<b>DICHLORODIFLUOROMETHANE</b>
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<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

**ETHYLBENZENE**

ICSC: 0268



Ethylbenzol  
Phenylethane  
EB

$C_8H_{10} / C_6H_5C_2H_5$

Molecular mass: 106.2

ICSC # 0268

CAS # 100-41-4

RTECS # [DA0700000](#)

UN # 1175

EC # 601-023-00-4

March 13, 1995 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Cough. Dizziness. Drowsiness. Headache.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain. Blurred vision.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	(Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: A filter respirator for organic gases and vapours.	Fireproof. Separated from strong oxidants.	F symbol Xn symbol R: 11-20 S: 2-16-24/25-29 UN Hazard Class: 3 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0268**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## ETHYLBENZENE

ICSC: 0268

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH AROMATIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour mixes well with air, explosive mixtures are easily formed.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong oxidants. Attacks plastic and rubber.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 100 ppm as TWA 125 ppm as STEL A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 3A; (DFG 2004). OSHA PEL<sup>†</sup>: TWA 100 ppm (435 mg/m<sup>3</sup>) NIOSH REL: TWA 100 ppm (435 mg/m<sup>3</sup>) ST 125 ppm (545 mg/m<sup>3</sup>) NIOSH IDLH: 800 ppm 10%LEL See: <a href="#">100414</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes the skin and the respiratory tract Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The substance may cause effects on the central nervous system Exposure far above the OEL could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 136°C Melting point: -95°C Relative density (water = 1): 0.9 Solubility in water, g/100 ml at 20°C: 0.015 Vapour pressure, kPa at 20°C: 0.9 Relative vapour density (air = 1): 3.7</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 18°C c.c. Auto-ignition temperature: 432°C Explosive limits, vol% in air: 1.0-6.7 Octanol/water partition coefficient as log Pow: 3.2</p>
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<b>ENVIRONMENTAL DATA</b>	<p>The substance is harmful to aquatic organisms.</p>	
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### NOTES

The odour warning when the exposure limit value is exceeded is insufficient.

Transport Emergency Card: TEC (R)-30S1175 or 30GF1-I+II  
NFPA Code: H2; F3; R0

### ADDITIONAL INFORMATION

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**ICSC: 0268** **ETHYLBENZENE**

(C) IPCS, CEC, 1994

<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## HEXACHLOROBUTADIENE

ICSC: 0896



1,1,2,3,4,4-Hexachloro-1,3-butadiene  
 Perchlorobutadiene  
 $C_4Cl_6 / CCl_2=CCICCl=CCl_2$   
 Molecular mass: 260.8

ICSC # 0896  
 CAS # 87-68-3  
 RTECS # [EJ0700000](#)  
 UN # 2279  
 August 10, 1997 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
• <b>INHALATION</b>	Burning sensation. Cough. Sore throat. Symptoms may be delayed (see Notes). Coma.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	MAY BE ABSORBED! Pain. Redness. Blisters. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Pain. Redness. Severe deep burns. Loss of vision.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Abdominal pain. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: complete protective clothing including self-contained breathing apparatus).	Separated from food and feedstuffs. Well closed. Ventilation along the floor. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.	Do not transport with food and feedstuffs. Severe marine pollutant. UN Hazard Class: 6.1 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

**ICSC: 0896** Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# HEXACHLOROBUTADIENE

ICSC: 0896

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes including hydrogen chloride and phosgene. Attacks rubber and some forms of plastic.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV (as TWA): 0.02 ppm; 0.21 mg/m<sup>3</sup> A3 (skin) (ACGIH 1997). MAK: skin absorption (H); Carcinogen category: 3B (DFG 2008). OSHA PEL<sup>†</sup>: none NIOSH REL: Ca TWA 0.02 ppm (0.24 mg/m<sup>3</sup>) skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The vapour irritates the eyes, the skin and the respiratory tract. The liquid is corrosive. The substance may cause effects on the kidneys.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization. May cause genetic damage in humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 212°C Melting point: -18°C Relative density (water = 1): 1.68 Solubility in water: none Vapour pressure, Pa at 20°C: 20</p>	<p>Relative vapour density (air = 1): 9.0 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Flash point: 90°C Auto-ignition temperature: 610°C Octanol/water partition coefficient as log Pow: 4.90</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish. The substance may cause long-term effects in the aquatic environment.</p>	
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**NOTES**

Transport Emergency Card: TEC (R)-613

NFPA Code: H2; F1; R1;

Card has been partially updated in November 2008: see Occupational Exposure Limits,

**ADDITIONAL INFORMATION**

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<b>ICSC: 0896</b>	(C) IPCS, CEC, 1994	<b>HEXACHLOROBUTADIENE</b>
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# International Chemical Safety Cards

CUMENE

ICSC: 0170



(1-Methylethyl)benzene  
2-Phenylpropane  
Isopropylbenzene  
 $C_9H_{12}$  /  $C_6H_5CH(CH_3)_2$   
Molecular mass: 120.2

ICSC # 0170  
CAS # 98-82-8  
RTECS # [GR8575000](#)  
UN # 1918  
EC # 601-024-00-X  
April 13, 2000 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 31°C explosive vapour/air mixtures may be formed.	Above 31°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Dizziness. Ataxia. Drowsiness. Headache. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: filter respirator for organic gases and vapours.	Fireproof. Separated from strong oxidants, acids. Cool. Keep in the dark. Store only if stabilized.	Marine pollutant. Note: C Xn symbol N symbol R: 10-37-51/53-65 S: 2-24-37-61-62 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0170

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**CUMENE**

**ICSC: 0170**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> Reacts violently with acids and strong oxidants causing fire and explosion hazard. The substance can form explosive peroxides.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 50 ppm as TWA (ACGIH 2004). MAK: 50 ppm 250 mg/m<sup>3</sup> Peak limitation category: II(4); skin absorption (H); Pregnancy risk group: C; (DFG 2004). OSHA PEL: TWA 50 ppm (245 mg/m<sup>3</sup>) skin NIOSH REL: TWA 50 ppm (245 mg/m<sup>3</sup>) skin NIOSH IDLH: 900 ppm 10%LEL See: <a href="#">98828</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and through the skin.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The substance may cause effects on the central nervous system Exposure far above the OEL may result in unconsciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 152°C Melting point: -96°C Relative density (water = 1): 0.90 Solubility in water: none Vapour pressure, Pa at 20°C: 427 Relative vapour density (air = 1): 4.2</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 31°C c.c. Auto-ignition temperature: 420°C Explosive limits, vol% in air: 0.9-6.5 Octanol/water partition coefficient as log Pow: 3.66</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
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**NOTES**

Check for peroxides prior to distillation; eliminate if found.

Transport Emergency Card: TEC (R)-30S1918 or 30GF1-III  
NFPA Code: H2; F3; R1

**ADDITIONAL INFORMATION**

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**ICSC: 0170** **CUMENE**

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

## METHYL TERT-BUTYL ETHER

ICSC: 1164



tert-Butyl methyl ether  
 MTBE  
 Methyl-1,1-dimethylethyl ether  
 2-Methoxy-2-methyl propane  
 $(CH_3)_3COCH_3 / C_5H_{12}O$   
 Molecular mass: 88.2

ICSC # 1164  
 CAS # 1634-04-4  
 RTECS # [KN525000](#)  
 UN # 2398  
 EC # 603-181-00-X  
 November 04, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable.	NO open flames, NO sparks, and NO smoking. NO contact with oxidants.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Drowsiness. Dizziness. Headache. Weakness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness.	Safety goggles or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Nausea. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: filter respirator for organic gases and vapours.	Fireproof. Separated from strong oxidants, strong acids.	F symbol Xi symbol R: 11-38 S: 2-9-16-24 UN Hazard Class: 3 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1164**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## METHYL TERT-BUTYL ETHER

**ICSC: 1164**

<p><b>I M P O R T A N T A D D I T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> Reacts violently with strong oxidants causing fire hazard. The substance decomposes on contact with acids.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 50 ppm as TWA; A3; (ACGIH 2004). MAK: 50 ppm, 180 mg/m<sup>3</sup>; Peak limitation category: I(1.5); Carcinogen category: 3B; Pregnancy risk group: C; (DFG 2004).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the skin. If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. Exposure far above the OEL could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 55°C Melting point: -109°C Relative density (water = 1): 0.7 Solubility in water, g/100 ml at 20°C: 4.2 Vapour pressure, kPa at 20°C: 27 Relative vapour density (air = 1): 3.0</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.5 Flash point: -28°C c.c. Auto-ignition temperature: 375°C Explosive limits, vol% in air: 1.6-15.1 Octanol/water partition coefficient as log Pow: 1.06</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>It is strongly advised not to let the chemical enter into the environment because it persists in the environment.</p>	
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### NOTES

Much less likely to form peroxides than other ethers. Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-30GF1-I+II

### ADDITIONAL INFORMATION

**ICSC: 1164**

**METHYL TERT-BUTYL ETHER**

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## DICHLOROMETHANE

ICSC: 0058



Methylene chloride  
DCM  
CH<sub>2</sub>Cl<sub>2</sub>  
Molecular mass: 84.9

ICSC # 0058  
CAS # 75-09-2  
RTECS # [PA8050000](#)  
UN # 1593  
EC # 602-004-00-3  
December 04, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Risk of fire and explosion (see Chemical Dangers).	Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>PREVENT GENERATION OF MISTS! STRICT HYGIENE!</b>	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea. Weakness. Unconsciousness. Death.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness. Burning sensation.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain. Severe deep burns.	Safety goggles, face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment. Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.	Separated from metals ( see Chemical Dangers ), food and feedstuffs . Cool. Ventilation along the floor.	Do not transport with food and feedstuffs. Xn symbol R: 40 S: (2-)23-24/25-36/37 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0058**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

## DICHLOROMETHANE

ICSC: 0058

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air. As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes. Reacts violently with metals such as aluminium powder and magnesium powder, strong bases and strong oxidants causing fire and explosion hazard. Attacks some forms of plastic rubber and coatings.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 50 ppm as TWA; A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2004). MAK: Carcinogen category: 3A; (DFG 2004). OSHA PEL: 1910.1052 TWA 25 ppm ST 125 ppm NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca 2300 ppm See: <a href="#">75092</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract . Exposure could cause lowering of consciousness. Exposure could cause the formation of methaemoglobin.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system and liver . This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 40°C Melting point: -95.1°C Relative density (water = 1): 1.3 Solubility in water, g/100 ml at 20°C: 1.3 Vapour pressure, kPa at 20°C: 47.4</p>	<p>Relative vapour density (air = 1): 2.9 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.9 Auto-ignition temperature: 556°C Explosive limits, vol% in air: 12-25 Octanol/water partition coefficient as log Pow: 1.25</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous in the environment; special attention should be given to ground water contamination.</p>	
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### NOTES

Addition of small amounts of a flammable substance or an increase in the oxygen content of the air strongly enhances combustibility. Depending on the degree of exposure, periodic medical examination is suggested. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. R30 is a trade name. Card has been partly updated in April 2005. See section Occupational Exposure Limits.

Transport Emergency Card: TEC (R)-61S1593

NFPA Code: H2; F1; R0;

### ADDITIONAL INFORMATION

<p><b>ICSC: 0058</b></p>	<p><b>DICHLOROMETHANE</b></p>
<p>(C) IPCS, CEC, 1994</p>	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only</p>
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modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## NAPHTHALENE

ICSC: 0667



Naphthene  
C<sub>10</sub>H<sub>8</sub>

Molecular mass: 128.18

ICSC # 0667  
 CAS # 91-20-3  
 RTECS # [QJ0525000](#)  
 UN # 1334 (solid); 2304 (molten)  
 EC # 601-052-00-2  
 April 21, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 80°C explosive vapour/air mixtures may be formed. Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
<b>•INHALATION</b>	Headache. Weakness. Nausea. Vomiting. Sweating. Confusion. Jaundice. Dark urine.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves.	Rinse skin with plenty of water or shower.
<b>•EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Diarrhoea. Convulsions. Unconsciousness. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants, food and feedstuffs. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 22-40-50/53 S: 2-36/37-46-60-61 UN Hazard Class: 4.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0667**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## NAPHTHALENE

ICSC: 0667

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE SOLID IN VARIOUS FORMS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms irritating and toxic gases. Reacts with strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; 15 ppm as STEL; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 2; Germ cell mutagen group: 3B; (DFG 2004). OSHA PEL<sup>†</sup>: TWA 10 ppm (50 mg/m<sup>3</sup>) NIOSH REL: TWA 10 ppm (50 mg/m<sup>3</sup>) ST 15 ppm (75 mg/m<sup>3</sup>) NIOSH IDLH: 250 ppm See: <a href="#">91203</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C. See Notes.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the blood , resulting in lesions of blood cells (haemolysis) . See Notes. The effects may be delayed. Exposure by ingestion may result in death. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood , resulting in chronic haemolytic anaemia. The substance may have effects on the eyes , resulting in the development of cataract. This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 218°C</p> <p>Sublimation slowly at room temperature</p> <p>Melting point: 80°C</p> <p>Density: 1.16 g/cm<sup>3</sup></p> <p>Solubility in water, g/100 ml at 25°C: none</p>	<p>Vapour pressure, Pa at 25°C: 11</p> <p>Relative vapour density (air = 1): 4.42</p> <p>Flash point: 80°C c.c.</p> <p>Auto-ignition temperature: 540°C</p> <p>Explosive limits, vol% in air: 0.9-5.9</p> <p>Octanol/water partition coefficient as log Pow: 3.3</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.</p>	
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### NOTES

Some individuals may be more sensitive to the effect of naphthalene on blood cells.

Transport Emergency Card: TEC (R)-41S1334 (solid); 41GF1-II+III (solid); 41S2304 (molten)

NFPA Code: H2; F2; R0;

### ADDITIONAL INFORMATION

<b>ICSC: 0667</b>	<b>NAPHTHALENE</b>
(C) IPCS, CEC, 1994	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# Material Safety Data Sheet

Normal-Butylbenzene, 99+%

ACC# 55434

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Normal-Butylbenzene, 99+%

**Catalog Numbers:** AC107850000, AC107850050, AC107850250, AC107850500, AC107851000, AC107852500  
AC107852500

**Synonyms:** 1-Phenylbutane

**Company Identification:**

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01

**For emergencies in the US, call CHEMTREC:** 800-424-9300

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
104-51-8	n-Butylbenzene	>99	203-209-7

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Appearance: clear, colorless liquid. Flash Point: 59 deg C.

**Warning! Flammable liquid and vapor.** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

**Target Organs:** Liver, nervous system.

### Potential Health Effects

**Eye:** May cause eye irritation. The toxicological properties of this material have not been fully investigated.

**Skin:** May cause skin irritation. The toxicological properties of this material have not been fully investigated.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Vapors may cause dizziness or suffocation.

**Chronic:** No information found.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Use agent most appropriate to extinguish fire. Do NOT use straight streams of water.

**Flash Point:** 59 deg C ( 138.20 deg F)

**Autoignition Temperature:** 412 deg C ( 773.60 deg F)

**Explosion Limits, Lower:** .80 vol %

**Upper:** 5.80 vol %

**NFPA Rating:** (estimated) Health: 1; Flammability: 2; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
n-Butylbenzene	none listed	none listed	none listed

**OSHA Vacated PELs:** n-Butylbenzene: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow the OSHA respirator regulations found in 29



CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** clear, colorless

**Odor:** None reported.

**pH:** Not available.

**Vapor Pressure:** 1.33 hPa @ 23 C

**Vapor Density:** 4.6

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 183 deg C @ 760.00mm Hg

**Freezing/Melting Point:** -88 deg C

**Decomposition Temperature:** > 183 deg C

**Solubility:** insoluble

**Specific Gravity/Density:** .8600g/cm<sup>3</sup>

**Molecular Formula:** C<sub>10</sub>H<sub>14</sub>

**Molecular Weight:** 134.22

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, strong oxidants.

**Incompatibilities with Other Materials:** Oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 104-51-8: CY9070000

**LD50/LC50:**

Not available.

**Carcinogenicity:**

**CAS#** 104-51-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** Rapidly volatilizes into the atmosphere where it is photochemically degraded by hydroxyl radicals.

**Physical:** No information available.

**Other:** No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	BUTYL BENZENES	No information available.
<b>Hazard Class:</b>	3	
<b>UN Number:</b>	UN2709	
<b>Packing Group:</b>	III	

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 104-51-8 is listed on the TSCA inventory.

#### Health & Safety Reporting List

CAS# 104-51-8: Effective 6/1/87, Sunset 12/19/95

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### SARA Codes

CAS # 104-51-8: immediate, fire.

**Section 313** No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 104-51-8 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

## European/International Regulations

### European Labeling in Accordance with EC Directives

#### Hazard Symbols:

Not available.

#### Risk Phrases:

R 10 Flammable.

#### Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 24/25 Avoid contact with skin and eyes.

S 33 Take precautionary measures against static discharges.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 9 Keep container in a well-ventilated place.

S 28A After contact with skin, wash immediately with plenty of water

#### WGK (Water Danger/Protection)

CAS# 104-51-8: 1

#### Canada - DSL/NDSL

CAS# 104-51-8 is listed on Canada's DSL List.

#### Canada - WHMIS

This product has a WHMIS classification of B3, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

#### Canadian Ingredient Disclosure List

## Section 16 - Additional Information

**MSDS Creation Date:** 4/15/1998

**Revision #4 Date:** 3/16/2007

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Propylbenzene

Product Number : P52407  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Combustible Liquid

##### Target Organs

Lungs, Eyes, Kidney

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H335 May cause respiratory irritation.  
H401 Toxic to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P331 Do NOT induce vomiting.

#### HMIS Classification

Health hazard: 0  
Chronic Health Hazard: \*  
Flammability: 2  
Physical hazards: 0

#### NFPA Rating

Health hazard: 1  
Fire: 2  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.

**Ingestion**

Aspiration hazard if swallowed - can enter lungs and cause damage. May be harmful if swallowed.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 1-Phenylpropane

Formula : C<sub>9</sub>H<sub>12</sub>

Molecular Weight : 120.19 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Propylbenzene</b>			
103-65-1	203-132-9	601-024-00-X	-

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**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

Use water spray to cool unopened containers.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid inhalation of vapour or mist.



Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Hand protection

For prolonged or repeated contact use protective gloves.

##### Eye protection

Face shield and safety glasses

##### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

##### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	liquid, clear
Colour	colourless

#### Safety data

pH	no data available
Melting point	-99 °C (-146 °F) - lit.
Boiling point	159 °C (318 °F) - lit.
Flash point	42.0 °C (107.6 °F) - closed cup
Ignition temperature	450 °C (842 °F)
Lower explosion limit	0.8 %(V)
Upper explosion limit	6 %(V)
Density	0.862 g/cm <sup>3</sup> at 25 °C (77 °F)
Water solubility	slightly soluble

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### 10. STABILITY AND REACTIVITY

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

#### Conditions to avoid

Heat, flames and sparks.



**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 6,040 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity).

LC50 Inhalation - rat - 2 h - 65000 ppm

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Aspiration hazard if swallowed - can enter lungs and cause damage. May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

Damage to the lungs., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: DA8750000

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**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 1.55 mg/l - 96.0 h



**Massachusetts Right To Know Components**

Propylbenzene	CAS-No. 103-65-1	Revision Date 2007-03-01
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**Pennsylvania Right To Know Components**

Propylbenzene	CAS-No. 103-65-1	Revision Date 2007-03-01
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**New Jersey Right To Know Components**

Propylbenzene	CAS-No. 103-65-1	Revision Date 2007-03-01
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION****Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

**o-XYLENE**

ICSC: 0084



ortho-Xylene  
 1,2-Dimethylbenzene  
 o-Xylol  
 $C_6H_4(CH_3)_2 / C_8H_{10}$   
 Molecular mass: 106.2

ICSC # 0084  
 CAS # 95-47-6  
 RTECS # [ZE2450000](#)  
 UN # 1307  
 EC # 601-022-00-9  
 August 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 32°C explosive vapour/air mixtures may be formed.	Above 32°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants and strong acids .	Note: C Xn symbol R: 10-20/21-38 S: 2-25 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0084

European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**o-XYLENE**

ICSC: 0084

<p><b>I</b></p> <p><b>M</b></p> <p><b>P</b></p> <p><b>O</b></p> <p><b>R</b></p> <p><b>T</b></p> <p><b>A</b></p> <p><b>N</b></p> <p><b>T</b></p> <p><b>D</b></p> <p><b>A</b></p> <p><b>T</b></p> <p><b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong acids and strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 100 ppm as TWA; 150 ppm as STEL A4 (ACGIH 2001). BEI specified by (ACGIH 2001). EU OEL: 50 ppm as TWA; 100 ppm as STEL (skin) (EU 2000). OSHA PEL<sup>†</sup>: TWA 100 ppm (435 mg/m<sup>3</sup>) NIOSH REL: TWA 100 ppm (435 mg/m<sup>3</sup>) ST 150 ppm (655 mg/m<sup>3</sup>) NIOSH IDLH: 900 ppm See: <a href="#">95476</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin . The substance may cause effects on the central nervous system . If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the central nervous system. Exposure to the substance may enhance hearing damage caused by exposure to noise. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 144°C Melting point: -25°C Relative density (water = 1): 0.88 Solubility in water: none Vapour pressure, kPa at 20°C: 0.7</p>	<p>Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 32°C c.c. Auto-ignition temperature: 463°C Explosive limits, vol% in air: 0.9-6.7 Octanol/water partition coefficient as log Pow: 3.12</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is indicated. The recommendations on this Card also apply to technical xylene. See ICSC 0086 p-Xylene and 0085 m-Xylene.

Transport Emergency Card: TEC (R)-30S1307-III

NFPA Code: H 2; F 3; R 0;

Card has been partially updated in January 2008: see Occupational Exposure Limits.

**ADDITIONAL INFORMATION**

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<p>ICSC: 0084</p>	<p><b>o-XYLENE</b></p>
<p>(C) IPCS, CEC, 1994</p>	

<p><b>IMPORTANT LEGAL</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only</p>
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**NOTICE:**

modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



# International Chemical Safety Cards

**o-XYLENE**

ICSC: 0084



ortho-Xylene  
1,2-Dimethylbenzene  
o-Xylol  
 $C_6H_4(CH_3)_2 / C_8H_{10}$   
Molecular mass: 106.2

ICSC # 0084  
CAS # 95-47-6  
RTECS # [ZE2450000](#)  
UN # 1307  
EC # 601-022-00-9  
August 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 32°C explosive vapour/air mixtures may be formed.	Above 32°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants strong acids	Note: C Xn symbol R: 10-20/21-38 S: 2-25 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0084**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**o-XYLENE**

**ICSC: 0084**

<p><b>I M P O R T A N T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong acids strong oxidants</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 100 ppm as TWA 150 ppm as STEL A4 (ACGIH 2001). BEI (ACGIH 2001). MAK: 100 ppm 440 mg/m<sup>3</sup> Peak limitation category: II(2) skin absorption (H); Pregnancy risk group: D (DFG 2005). EU OEL: 50 ppm as TWA 100 ppm as STEL (skin) (EU 2000). OSHA PEL<sup>†</sup>: TWA 100 ppm (435 mg/m<sup>3</sup>) NIOSH REL: TWA 100 ppm (435 mg/m<sup>3</sup>) ST 150 ppm (655 mg/m<sup>3</sup>) NIOSH IDLH: 900 ppm See: <a href="#">95476</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin The substance may cause effects on the central nervous system If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the central nervous system. Exposure to the substance may enhance hearing damage caused by exposure to noise. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 144°C Melting point: -25°C Relative density (water = 1): 0.88 Solubility in water: none Vapour pressure, kPa at 20°C: 0.7</p>	<p>Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 32°C c.c. Auto-ignition temperature: 463°C Explosive limits, vol% in air: 0.9-6.7 Octanol/water partition coefficient as log Pow: 3.12</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is indicated. The recommendations on this Card also apply to technical xylene. See ICSC 0086 p-Xylene and 0085 m-Xylene.

Transport Emergency Card: TEC (R)-30S1307-III  
NFPA Code: H 2; F 3; R 0;

**ADDITIONAL INFORMATION**

<b>ICSC: 0084</b>	<b>o-XYLENE</b>
(C) IPCS, CEC, 1994	

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# International Chemical Safety Cards

p-XYLENE

ICSC: 0086



para-Xylene  
1,4-Dimethylbenzene  
p-Xylol  
 $C_6H_4(CH_3)_2 / C_8H_{10}$   
Molecular mass: 106.2

ICSC # 0086  
CAS # 106-42-3  
RTECS # [ZE2625000](#)  
UN # 1307  
EC # 601-022-00-9  
August 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 27°C explosive vapour/air mixtures may be formed.	Above 27°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants, strong acids	Note: C Xn symbol R: 10-20/21-38 S: 2-25 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0086**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**p-XYLENE**

ICSC: 0086

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong acids strong oxidants</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 100 ppm as TWA 150 ppm as STEL A4 (ACGIH 2001). BEI (ACGIH 2001). MAK: 100 ppm 440 mg/m<sup>3</sup> Peak limitation category: II(2) skin absorption (H); Pregnancy risk group: D (DFG 2005). EU OEL: 50 ppm as TWA 100 ppm as STEL (skin) (EU 2000). OSHA PEL<sup>±</sup>: TWA 100 ppm (435 mg/m<sup>3</sup>) NIOSH REL: TWA 100 ppm (435 mg/m<sup>3</sup>) ST 150 ppm (655 mg/m<sup>3</sup>) NIOSH IDLH: 900 ppm See: <a href="#">95476</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin The substance may cause effects on the central nervous system If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the central nervous system. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 138°C Melting point: 13°C Relative density (water = 1): 0.86 Solubility in water: none Vapour pressure, kPa at 20°C: 0.9</p>	<p>Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 27°C c.c. Auto-ignition temperature: 528°C Explosive limits, vol% in air: 1.1-7.0 Octanol/water partition coefficient as log Pow: 3.15</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is indicated. The recommendations on this Card also apply to technical xylene. See ICSC 0084 o-Xylene and 0085 m-Xylene.

Transport Emergency Card: TEC (R)-30S1307-III  
NFPA Code: H 2; F 3; R 0;

**ADDITIONAL INFORMATION**

<b>ICSC: 0086</b>	<b>p-XYLENE</b>
(C) IPCS, CEC, 1994	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

m-XYLENE

ICSC: 0085



meta-Xylene  
1,3-Dimethylbenzene  
m-Xylol  
 $C_6H_4(CH_3)_2 / C_8H_{10}$   
Molecular mass: 106.2

ICSC # 0085  
CAS # 108-38-3  
RTECS # [ZE2275000](#)  
UN # 1307  
EC # 601-022-00-9  
August 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 27°C explosive vapour/air mixtures may be formed.	Above 27°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants strong acids	Note: C Xn symbol R: 10-20/21-38 S: 2-25 UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0085

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**m-XYLENE**

**ICSC: 0085**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong acids strong oxidants</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 100 ppm as TWA 150 ppm as STEL A4 (ACGIH 2001). BEI (ACGIH 2001). MAK: 100 ppm 440 mg/m<sup>3</sup> Peak limitation category: II(2) skin absorption (H); Pregnancy risk group: D (DFG 2005). EU OEL: 50 ppm as TWA 100 ppm as STEL (skin) (EU 2000). OSHA PEL<sup>±</sup>: TWA 100 ppm (435 mg/m<sup>3</sup>) NIOSH REL: TWA 100 ppm (435 mg/m<sup>3</sup>) ST 150 ppm (655 mg/m<sup>3</sup>) NIOSH IDLH: 900 ppm See: <a href="#">95476</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin The substance may cause effects on the central nervous system If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the central nervous system Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 139°C Melting point: -48°C Relative density (water = 1): 0.86 Solubility in water: none Vapour pressure, kPa at 20°C: 0.8</p>	<p>Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 27°C c.c. Auto-ignition temperature: 527°C Explosive limits, vol% in air: 1.1-7.0 Octanol/water partition coefficient as log Pow: 3.20</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is indicated. The recommendations on this Card also apply to technical xylene. See ICSC 0084 o-Xylene and 0086 p-Xylene.

NFPA Code: H 2; F 3; R 0;  
Transport Emergency Card: TEC (R)-30S1307-III

**ADDITIONAL INFORMATION**

<b>ICSC: 0085</b>	<b>m-XYLENE</b>
(C) IPCS, CEC, 1994	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

**p-CYMENE**

ICSC: 0617



1-Methyl-4-isopropylbenzene  
Dolcymene  
Camphogen  
 $C_{10}H_{14} / CH_3C_6H_4CH(CH_3)_2$   
Molecular mass: 134.2

ICSC # 0617  
CAS # 99-87-6  
RTECS # [GZ5950000](#)  
UN # 2046  
November 04, 1997 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 47°C explosive vapour/air mixtures may be formed.	Above 47°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Dizziness. Drowsiness. Vomiting.	Ventilation.	Fresh air, rest. Half-upright position. Artificial respiration if indicated. Refer for medical attention.
<b>•SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Wear protective gloves when administering first aid.
<b>•EYES</b>	Redness.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Diarrhoea. Drowsiness. Headache. Nausea. Vomiting. Unconsciousness.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. (Extra personal protection: filter respirator for organic gases and vapours).	Fireproof.	UN Hazard Class: 3 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0617**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**p-CYMENE**

ICSC: 0617

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with oxidants. Attacks rubber.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin . Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 177°C Melting point: -68°C Relative density (water = 1): 0.85 Solubility in water, g/100 ml at 25°C: 0.002 Vapour pressure, Pa at 20°C: 200</p>	<p>Relative vapour density (air = 1): 4.62 Flash point: 47°C c.c. Auto-ignition temperature: 435°C Explosive limits, vol% in air: 0.7-5.6 Octanol/water partition coefficient as log Pow: 4.1</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	
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**NOTES**

Transport Emergency Card: TEC (R)-30G35  
NFPA Code: H2; F2; R0;

**ADDITIONAL INFORMATION**

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<b>ICSC: 0617</b>	(C) IPCS, CEC, 1994	<b>p-CYMENE</b>
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<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : sec-Butylbenzene

Product Number : B90408  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

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**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Combustible Liquid, Irritant

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

Hazard statement(s)

H226

Flammable liquid and vapour.

H315 + H320

Causes skin and eye irritation.

H401

Toxic to aquatic life.

Precautionary statement(s)

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**HMIS Classification**

Health hazard: 2

Flammability: 2

Physical hazards: 0

**NFPA Rating**

Health hazard: 2

Fire: 2

Reactivity Hazard: 0

**Potential Health Effects****Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation.

**Skin**

May be harmful if absorbed through skin. Causes skin irritation.

**Eyes**

Causes eye irritation.

**Ingestion**

May be harmful if swallowed.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 2-Phenylbutane

Formula : C<sub>10</sub>H<sub>14</sub>  
Molecular Weight : 134.22 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>sec-Butylbenzene</b>			
135-98-8	205-227-0	-	-

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#### 4. FIRST AID MEASURES

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

##### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

##### Further information

Use water spray to cool unopened containers.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

##### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

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#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

##### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid, clear

Colour colourless

### Safety data

pH no data available

Melting point 75.5 °C (167.9 °F) - lit.

Boiling point 173 - 174 °C (343 - 345 °F) - lit.

Flash point 52.0 °C (125.6 °F) - closed cup

Ignition temperature 418 °C (784 °F)

Lower explosion limit 0.8 %(V)

Density 0.863 g/mL at 25 °C (77 °F)

Water solubility no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

LD50 Dermal - rabbit - > 13,792 mg/kg

**Skin corrosion/irritation**

Skin - rabbit - irritating - 24 h

**Serious eye damage/eye irritation**

Eyes - rabbit - Mild eye irritation - 24 h

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: CY9100000

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**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**



An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 13. DISPOSAL CONSIDERATIONS

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

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### 14. TRANSPORT INFORMATION

#### DOT (US)

UN-Number: 2709 Class: 3 Packing group: III

Proper shipping name: Butyl benzenes

Marine pollutant: No

Poison Inhalation Hazard: No

#### IMDG

UN-Number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: BUTYLBENZENES

Marine pollutant: No

#### IATA

UN-Number: 2709 Class: 3 Packing group: III

Proper shipping name: Butylbenzenes

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### 15. REGULATORY INFORMATION

#### OSHA Hazards

Combustible Liquid, Irritant

#### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

sec-Butylbenzene	CAS-No. 135-98-8
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#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

sec-Butylbenzene	CAS-No. 135-98-8	Revision Date
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#### New Jersey Right To Know Components

sec-Butylbenzene	CAS-No. 135-98-8	Revision Date
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#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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### 16. OTHER INFORMATION

**Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

**STYRENE**

ICSC: 0073



Vinylbenzene  
 Phenylethylene  
 Ethenylbenzene  
 $C_8H_8 / C_6H_5CHCH_2$   
 Molecular mass: 104.2

ICSC # 0073  
 CAS # 100-42-5  
 RTECS # [WL3675000](#)  
 UN # 2055  
 EC # 601-026-00-0  
 April 04, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Dry powder. Foam. Carbon dioxide.
<b>EXPLOSION</b>	Above 31°C explosive vapour/air mixtures may be formed. See Notes.	Above 31°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>STRICT HYGIENE!</b>	
<b>•INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea. Vomiting. Weakness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness. Pain.	Protective clothing. Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Remove all ignition sources. Personal protection: chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment. Do NOT wash away into sewer. Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place.	Fireproof. Separated from incompatible materials See Chemical Dangers. Cool. Keep in the dark. Store only if stabilized. Store in an area without drain or sewer access.	Airtight. Marine pollutant. Note: D Xn symbol R: 10-20-36/38 S: 2-23 UN Hazard Class: 3 UN Packing Group: III Signal: Danger Flame-Excl mark-Health haz Flammable liquid and vapour Harmful if inhaled vapour Causes skin irritation

Causes eye irritation  
 Suspected of causing cancer  
 Causes damage to central nervous system and liver through prolonged or repeated exposure  
 Toxic to aquatic life

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0073**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**STYRENE**

**ICSC: 0073**

<p><b>I M P O R T A N T A C T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  COLOURLESS TO YELLOW OILY LIQUID .</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b>                  The substance can form explosive peroxides. The substance may polymerize due to warming, under the influence of light , oxidants oxygen , and peroxides , causing fire and explosion hazard. Reacts violently with strong acids , strong oxidants causing fire and explosion hazard. Attacks rubber, copper and copper alloys.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV: 20 ppm as TWA; 40 ppm as STEL; A4 (not classifiable as a human carcinogen); BEI issued (ACGIH 2005).                  MAK: 20 ppm, 86 mg/m<sup>3</sup>;                  Peak limitation category: II(2); Carcinogen category: 5;                  Pregnancy risk group: C; BAT issued; (DFG 2006).                  OSHA PEL<sup>±</sup>: TWA 100 ppm C 200 ppm 600 ppm (5-minute maximum peak in any 3 hours)                  NIOSH REL: TWA 50 ppm (215 mg/m<sup>3</sup>) ST 100 ppm (425 mg/m<sup>3</sup>)                  NIOSH IDLH: 700 ppm See: <a href="#">100425</a></p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation of its vapour.</p> <p><b>INHALATION RISK:</b>                  A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance is irritating to the eyes, the skin and the respiratory tract. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The substance may cause effects on the central nervous system. Exposure at high levels may result in unconsciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The liquid defats the skin. The substance may have effects on the central nervous system. Exposure to the substance may enhance hearing damage caused by exposure to noise. This substance is possibly carcinogenic to humans. See Notes.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 145°C                  Melting point: -30.6°C                  Relative density (water = 1): 0.91                  Solubility in water, g/100 ml at 20°C: 0.03                  Vapour pressure, kPa at 20°C: 0.67                  Relative vapour density (air = 1): 3.6</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02                  Flash point: 31°C c.c.                  Auto-ignition temperature: 490°C                  Explosive limits, vol% in air: 0.9-6.8                  Octanol/water partition coefficient as log Pow: 3.0</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is indicated. Check for peroxides prior to distillation; eliminate if found. Styrene monomer vapours are uninhibited and may form polymers in vents or flame arresters of storage tanks, resulting in blockage of vents. Do NOT take working clothes home.

Transport Emergency Card: TEC (R)-30S2055; 30GF1-III-9  
 NFPA Code: H 2; F 3; R 2;

Card has been partially updated in 2007: see Occupational Exposure Limits, Fire fighting.

**ADDITIONAL INFORMATION**

**ICSC: 0073**

**STYRENE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : *tert*-Butylbenzene

Product Number : B90602  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 2-Methyl-2-phenylpropane

Formula : C<sub>10</sub>H<sub>14</sub>  
Molecular Weight : 134.22 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>tert-Butylbenzene</b>			
98-06-6	202-632-4	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Flammable Liquid, Irritant

**HMIS Classification**

Health Hazard: 2  
Flammability: 3  
Physical hazards: 0

**NFPA Rating**

Health Hazard: 2  
Fire: 3  
Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** May be harmful if swallowed.



#### 4. FIRST AID MEASURES

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

##### Flammable properties

Flash point 34.0 °C (93.2 °F) - closed cup

Ignition temperature 450 °C (842 °F)

##### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

##### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

##### Further information

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

##### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

##### Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

##### Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid, clear
Colour	colourless

### Safety data

pH	no data available
Melting point	-58 °C (-72 °F) - lit.
Boiling point	169 °C (336 °F) - lit.
Flash point	34.0 °C (93.2 °F) - closed cup
Ignition temperature	450 °C (842 °F)
Lower explosion limit	0.8 %(V)
Density	0.867 g/mL at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 3.80

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Hazardous reactions**

Vapours may form explosive mixture with air.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 3,045 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Gastrointestinal:Changes in structure or function of salivary glands.

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Additional Information**

RTECS: CY9120000

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

Toxicity to fish	LC0 - Leuciscus idus (Golden orfe) - 44 mg/l - 48 h
	LC50 - Leuciscus idus (Golden orfe) - 65 mg/l - 48 h
Toxicity to daphnia and other aquatic	LC50 - Daphnia magna (Water flea) - 41 mg/l - 24 h



invertebrates.

#### Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### DOT (US)

UN-Number: 2709 Class: 3 Packing group: III

Proper shipping name: Butyl benzenes

Marine pollutant: No

Poison Inhalation Hazard: No

#### IMDG

UN-Number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: BUTYLBENZENES

Marine pollutant: No

#### IATA

UN-Number: 2709 Class: 3 Packing group: III

Proper shipping name: Butylbenzenes

### 15. REGULATORY INFORMATION

#### OSHA Hazards

Flammable Liquid, Irritant

#### DSL Status

All components of this product are on the Canadian DSL list.

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

#### Massachusetts Right To Know Components

tert-Butylbenzene

CAS-No.  
98-06-6

Revision Date  
1993-04-24

#### Pennsylvania Right To Know Components

tert-Butylbenzene

CAS-No.  
98-06-6

Revision Date  
1993-04-24

**New Jersey Right To Know Components**

tert-Butylbenzene

CAS-No.  
98-06-6

Revision Date  
1993-04-24

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION**

**Further information**

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# International Chemical Safety Cards

## TETRACHLOROETHYLENE

ICSC: 0076



1,1,2,2-Tetrachloroethylene  
 Perchloroethylene  
 Tetrachloroethene  
 $C_2Cl_4 / Cl_2C=CCl_2$   
 Molecular mass: 165.8

ICSC # 0076  
 CAS # 127-18-4  
 RTECS # [KX3850000](#)  
 UN # 1897  
 EC # 602-028-00-4  
 April 13, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		STRICT HYGIENE! PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Dizziness. Drowsiness. Headache. Nausea. Weakness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Dry skin. Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety goggles , face shield .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: filter respirator for organic gases and vapours.	Separated from metals ,( see Chemical Dangers ), food and feedstuffs . Keep in the dark. Ventilation along the floor.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 40-51/53 S: (2-)23-36/37-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0076**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

## TETRACHLOROETHYLENE

ICSC: 0076

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes (hydrogen chloride, phosgene, chlorine). The substance decomposes slowly on contact with moisture producing trichloroacetic acid and hydrochloric acid. Reacts with metals such as aluminium, lithium, barium, beryllium.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 25 ppm as TWA, 100 ppm as STEL; A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2004). MAK: skin absorption (H); Carcinogen category: 3B; (DFG 2004). OSHA PEL<sup>+</sup>: TWA 100 ppm C 200 ppm 300 ppm (5-minute maximum peak in any 3-hours) NIOSH REL: Ca Minimize workplace exposure concentrations. <a href="#">See Appendix A</a> NIOSH IDLH: Ca 150 ppm See: <a href="#">127184</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract . If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system. Exposure at high levels may result in unconsciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the liver and kidneys. This substance is probably carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 121°C Melting point: -22°C Relative density (water = 1): 1.6 Solubility in water, g/100 ml at 20°C: 0.015</p>	<p>Vapour pressure, kPa at 20°C: 1.9 Relative vapour density (air = 1): 5.8 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.09 Octanol/water partition coefficient as log Pow: 2.9</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.</p>	
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### NOTES

Depending on the degree of exposure, periodic medical examination is suggested. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert. Card has been partly updated in April 2005. See section Occupational Exposure Limits.

Transport Emergency Card: TEC (R)-61S1897

NFPA Code: H2; F0; R0;

### ADDITIONAL INFORMATION

<p><b>ICSC: 0076</b></p>	<p><b>TETRACHLOROETHYLENE</b></p>
<p>(C) IPCS, CEC, 1994</p>	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only</p>
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modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**TOLUENE**

ICSC: 0078



Methylbenzene  
Toluol  
Phenylmethane  
 $C_6H_5CH_3 / C_7H_8$   
Molecular mass: 92.1

ICSC # 0078  
CAS # 108-88-3  
RTECS # [XS5250000](#)  
UN # 1294  
EC # 601-021-00-3  
October 10, 2002 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Do NOT use compressed air for filling, discharging, or handling. Use non-sparking handtools.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
<b>•INHALATION</b>	Cough. Sore throat. Dizziness. Drowsiness. Headache. Nausea. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area in large spill! Consult an expert in large spill! Remove all ignition sources. Ventilation. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: self-contained breathing apparatus	Fireproof. Separated from strong oxidants.	F symbol Xn symbol R: 11-38-48/20-63-65-67 S: 2-36/37-46-62 UN Hazard Class: 3 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0078**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**TOLUENE**

**ICSC: 0078**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour mixes well with air, explosive mixtures are formed easily. As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> Reacts violently with strong oxidants causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 50 ppm as TWA (skin) A4 BEI issued (ACGIH 2004). MAK: 50 ppm 190 mg/m<sup>3</sup> H Peak limitation category: II(4) Pregnancy risk group: C (DFG 2004). OSHA PEL<sup>†</sup>: TWA 200 ppm C 300 ppm 500 ppm (10-minute maximum peak) NIOSH REL: TWA 100 ppm (375 mg/m<sup>3</sup>) ST 150 ppm (560 mg/m<sup>3</sup>) NIOSH IDLH: 500 ppm See: <a href="#">108883</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the respiratory tract The substance may cause effects on the central nervous system If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. Exposure at high levels may result in cardiac dysrhythmia and unconsciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the central nervous system Exposure to the substance may enhance hearing damage caused by exposure to noise. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 111°C Melting point: -95°C Relative density (water = 1): 0.87 Solubility in water: none Vapour pressure, kPa at 25°C: 3.8 Relative vapour density (air = 1): 3.1</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 4°C c.c. Auto-ignition temperature: 480°C Explosive limits, vol% in air: 1.1-7.1 Octanol/water partition coefficient as log Pow: 2.69</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. Use of alcoholic beverages enhances the harmful effect.

Transport Emergency Card: TEC (R)-30S1294  
NFPA Code: H 2; F 3; R 0;

**ADDITIONAL INFORMATION**

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**ICSC: 0078** **TOLUENE**

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : *trans*-1,2-Dichloroethene

Product Number : 48527  
Brand : Supelco  
Product Use : For laboratory research purposes.

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

Manufacturer : Sigma-Aldrich Corporation  
3050 Spruce St.  
St. Louis, Missouri 63103  
USA

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**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Flammable liquid, Harmful by ingestion., Irritant

**Target Organs**

Central nervous system, Liver, Kidney

**GHS Classification**Flammable liquids (Category 2)  
Acute toxicity, Inhalation (Category 4)  
Acute toxicity, Oral (Category 4)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Acute aquatic toxicity (Category 3)**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.  
H302 + H332 Harmful if swallowed or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H402 Harmful to aquatic life.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



**HMIS Classification**

Health hazard: 2  
 Chronic Health Hazard: \*  
 Flammability: 3  
 Physical hazards: 0

**NFPA Rating**

Health hazard: 2  
 Fire: 3  
 Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** Harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** Harmful if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : *trans*-1,2-Dichloroethene  
*trans*-1,2-Dichloroethylene  
*trans*-Acetylene dichloride

Formula : C<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub> C<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub>  
 Molecular Weight : 96.94 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>trans-Dichloroethylene</b>			
156-60-5	205-860-2	602-026-00-3	-

**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Carbon oxides, Phosgene gas  
 Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

**Further information**

Use water spray to cool unopened containers.



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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
trans-Dichloroethylene	156-60-5	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Central Nervous System impairment Eye irritation			

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid, clear
Colour	light yellow

### Safety data

pH	no data available
Melting/freezing point	Melting point/range: -50 °C (-58 °F)
Boiling point	48 °C (118 °F)
Flash point	6.0 °C (42.8 °F) - closed cup
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	9.7 %(V)
Upper explosion limit	12.8 %(V)
Vapour pressure	no data available
Density	1.257 g/mL at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### Materials to avoid

Oxidizing agents, Bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Carbon oxides, Phosgene gas  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas  
Other decomposition products - no data available

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 1,235 mg/kg

#### Inhalation LC50

LC50 Inhalation - rat - 24100 ppm



Remarks: Behavioral:Somnolence (general depressed activity).

**Dermal LD50**

LD50 Dermal - rabbit - > 5,000 mg/kg

Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

**Other information on acute toxicity**

no data available

**Skin corrosion/irritation**

Skin - rabbit - Skin irritation - 24 h

**Serious eye damage/eye irritation**

Eyes - rabbit - Eye irritation

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

**Signs and Symptoms of Exposure**

prolonged or repeated exposure can cause:, narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

no data available

**Additional Information**

RTECS: Not available

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia magna (Water flea) - 220.00 mg/l - 48 h

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

---

## 13. DISPOSAL CONSIDERATIONS

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 1150 Class: 3 Packing group: II

Proper shipping name: 1,2-Dichloroethylene

Reportable Quantity (RQ): 1000 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

### IMDG

UN-Number: 1150 Class: 3 Packing group: II

EMS-No: F-E, S-D

Proper shipping name: 1,2-DICHLOROETHYLENE

Marine pollutant: No

### IATA

UN-Number: 1150 Class: 3 Packing group: II

Proper shipping name: 1,2-Dichloroethylene

---

## 15. REGULATORY INFORMATION

### OSHA Hazards

Flammable liquid, Harmful by ingestion., Irritant

### DSL Status

All components of this product are on the Canadian DSL list.

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION****Further information**

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : *trans*-1,3-Dichloropropene

Product Number : 47793  
Brand : Supelco

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For : (314) 776-6555  
both supplier and  
manufacturer)

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

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**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Flammable liquid, Toxic by ingestion, Toxic by skin absorption, Skin sensitiser, Irritant, Carcinogen

**Target Organs**

Liver, Kidney

**GHS Classification**

Flammable liquids (Category 3)  
Acute toxicity, Oral (Category 3)  
Acute toxicity, Inhalation (Category 4)  
Acute toxicity, Dermal (Category 3)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Skin sensitization (Category 1)  
Carcinogenicity (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
Aspiration hazard (Category 1)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapour.  
H301 + H311 Toxic if swallowed or in contact with skin.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.



H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H351 Suspected of causing cancer.  
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P331 Do NOT induce vomiting.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification**

Health hazard: 2  
 Chronic Health Hazard: \*  
 Flammability: 3  
 Physical hazards: 0

**NFPA Rating**

Health hazard: 2  
 Fire: 3  
 Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** Toxic if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** Toxic if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>3</sub>H<sub>4</sub>Cl<sub>2</sub> C<sub>3</sub>H<sub>4</sub>Cl<sub>2</sub>  
 Molecular Weight : 110.97 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>(E)-1,3-Dichloropropene</b>			
10061-02-6	-	-	-

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**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIRE-FIGHTING MEASURES

### Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

### Further information

Use water spray to cool unopened containers.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20 °C

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection



Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	112.0 °C (233.6 °F)
Flash point	27 °C (81 °F) - closed cup
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	1.23 g/cm <sup>3</sup> at 20 °C (68 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Aluminum, Strong oxidizing agents, Metals, Halogens

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas  
Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity****Oral LD50**

no data available

**Inhalation LC50**

no data available

**Dermal LD50**

no data available

**Other information on acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

May cause sensitization by skin contact.

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.
<b>Skin</b>	Toxic if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

no data available

**Additional Information**

RTECS: UC8320000

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**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

no data available

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**13. DISPOSAL CONSIDERATIONS****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION****DOT (US)**

UN number: 2047 Class: 3 Packing group: II  
Proper shipping name: Dichloropropenes  
Reportable Quantity (RQ):  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN number: 2047 Class: 3 Packing group: II EMS-No: F-E, S-D  
Proper shipping name: DICHLOROPROPENES



Marine pollutant: No

**IATA**

UN number: 2047 Class: 3 Packing group: II  
Proper shipping name: Dichloropropenes

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**15. REGULATORY INFORMATION**

**OSHA Hazards**

Flammable liquid, Toxic by ingestion, Toxic by skin absorption, Skin sensitiser, Irritant, Carcinogen

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
(E)-1,3-Dichloropropene	10061-02-6	2007-07-01

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
(E)-1,3-Dichloropropene	10061-02-6	2007-07-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
(E)-1,3-Dichloropropene	10061-02-6	2007-07-01

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
(E)-1,3-Dichloropropene	10061-02-6	2007-07-01

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

**16. OTHER INFORMATION**

**Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# International Chemical Safety Cards

## TRICHLOROETHYLENE

ICSC: 0081



1,1,2-Trichloroethylene  
Trichloroethene  
Ethylene trichloride  
Acetylene trichloride  
 $C_2HCl_3$  /  $CICH=CCl_2$   
Molecular mass: 131.4

ICSC # 0081  
CAS # 79-01-6  
RTECS # [KX4550000](#)  
UN # 1710  
EC # 602-027-00-9  
April 10, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. See Notes.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>		Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS! STRICT HYGIENE!	
• <b>INHALATION</b>	Dizziness. Drowsiness. Headache. Weakness. Nausea. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety spectacles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Rest.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Personal protection: filter respirator for organic gases and vapours adapted to the airborne concentration of the substance. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.	Separated from metals ( see Chemical Dangers ), strong bases, food and feedstuffs . Dry. Keep in the dark. Ventilation along the floor. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Marine pollutant. T symbol R: 45-36/38-52/53-67 S: 53-45-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the

ICSC: 0081

OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## TRICHLOROETHYLENE

ICSC: 0081

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air. As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes ( phosgene , hydrogen chloride ). The substance decomposes on contact with strong alkali producing dichloroacetylene , which increases fire hazard. Reacts violently with metal powders such as magnesium, aluminium, titanium, and barium. Slowly decomposed by light in presence of moisture, with formation of corrosive hydrochloric acid.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 50 ppm as TWA; 100 ppm as STEL; A5; BEI issued; (ACGIH 2004). MAK: Carcinogen category: 1; Germ cell mutagen group: 3B; (DFG 2007). OSHA PEL<sup>†</sup>: TWA 100 ppm C 200 ppm 300 ppm (5-minute maximum peak in any 2 hours) NIOSH REL: Ca <a href="#">See Appendix A</a> <a href="#">See Appendix C</a> NIOSH IDLH: Ca 1000 ppm See: <a href="#">79016</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin . Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The substance may cause effects on the central nervous system , resulting in respiratory failure . Exposure could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system , resulting in loss of memory. The substance may have effects on the liver and kidneys (see Notes). This substance is probably carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 87°C Melting point: -73°C Relative density (water = 1): 1.5 Solubility in water, g/100 ml at 20°C: 0.1 Vapour pressure, kPa at 20°C: 7.8 Relative vapour density (air = 1): 4.5</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.3 Auto-ignition temperature: 410°C Explosive limits, vol% in air: 8-10.5 Octanol/water partition coefficient as log Pow: 2.42 Electrical conductivity: 800pS/m</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms. The substance may cause long-term effects in the aquatic environment.</p>	
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**NOTES**

Combustible vapour/air mixtures difficult to ignite, may be developed under certain conditions. Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is suggested. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert.

Transport Emergency Card: TEC (R)-61S1710

NFPA Code: H2; F1; R0;

Card has been partially updated in October 2004: see Occupational Exposure Limits, EU Classification, Emergency Response.  
Card has been partially updated in April 2010: see Occupational Exposure Limits, Ingestion First Aid, Storage.

**ADDITIONAL INFORMATION**

**ICSC: 0081****TRICHLOROETHYLENE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## TRICHLOROFLUOROMETHANE

ICSC: 0047



Trichloromonofluoromethane  
 Fluorotrichloromethane  
 CFC 11  
 R 11  
 $\text{CCl}_3\text{F}$   
 Molecular mass: 137.4

ICSC # 0047  
 CAS # 75-69-4  
 RTECS # [PB6125000](#)  
 July 03, 2002 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
• <b>INHALATION</b>	Cardiac arrhythmia. Confusion. Drowsiness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
• <b>SKIN</b>	ON CONTACT WITH LIQUID: FROSTBITE. Dry skin.	Cold-insulating gloves.	ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Refer for medical attention.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation.	Separated from incompatible materials . See Chemical Dangers. Cool.	

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0047

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards


## TRICHLOROFLUOROMETHANE

ICSC: 0047

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS GAS OR HIGHLY VOLATILE	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by
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<p><b>M</b></p> <p><b>P</b></p> <p><b>O</b></p> <p><b>R</b></p> <p><b>T</b></p> <p><b>A</b></p> <p><b>N</b></p> <p><b>T</b></p> <p><b>D</b></p> <p><b>A</b></p> <p><b>T</b></p> <p><b>A</b></p>	<p>LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The gas is heavier than air. The vapour is heavier than air and may accumulate in low ceiling spaces causing deficiency of oxygen.</p> <p><b>CHEMICAL DANGERS:</b> On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive gases(hydrogen chloride ICSC 0163,phosgene ICSC 0007,hydrogen fluoride ICSC 0283,carbonyl fluoride ICSC 0633). Reacts with powders of aluminium, zinc, magnesium and lithium shavings; granular barium.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1000 ppm (Ceiling value); A4; (ACGIH 2004). MAK: 1000 ppm; 5700 mg/m<sup>3</sup>; Peak limitation category: II(2); Pregnancy risk group: C;  (DFG 2004). OSHA PEL<sub>T</sub>: TWA 1000 ppm (5600 mg/m<sup>3</sup>) NIOSH REL: C 1000 ppm (5600 mg/m<sup>3</sup>) NIOSH IDLH: 2000 ppm See: <a href="#">75694</a></p>	<p>inhalation.</p> <p><b>INHALATION RISK:</b> On loss of containment this liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The liquid may cause frostbite. The substance may cause effects on the cardiovascular system and central nervous system , resulting in cardiac disorders and central nervous system depression. Exposure could cause lowering of consciousness. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 24°C Melting point: -111°C Relative density (water = 1): 1.49 Solubility in water, g/100 ml at 20°C: 0.1</p>	<p>Vapour pressure, kPa at 20°C: 89.0 Relative vapour density (air = 1): 4.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 4.4 Octanol/water partition coefficient as log Pow: 2.53</p>
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<b>ENVIRONMENTAL DATA</b>	<p>This substance may be hazardous to the environment; special attention should be given to its impact on the ozone layer.</p>	
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**NOTES**

High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death. Check oxygen content before entering area. The occupational exposure limit value should not be exceeded during any part of the working exposure. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Turn leaking cylinder with the leak up to prevent escape of gas in liquid state. Freon 11, Frigen 11, Halon 11 are trade names. Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

**ADDITIONAL INFORMATION**

<b>ICSC: 0047</b>	<b>TRICHLOROFLUOROMETHANE</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

VINYL CHLORIDE

ICSC: 0082



Chloroethene  
Chloroethylene  
VCM  
 $C_2H_3Cl / H_2C=CHCl$   
Molecular mass: 62.5  
(cylinder)



ICSC # 0082  
CAS # 75-01-4  
RTECS # [KU9625000](#)  
UN # 1086 (stabilized)  
EC # 602-023-00-7  
April 13, 2000 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Extremely flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Shut off supply; if not possible and no risk to surroundings, let the fire burn itself out; in other cases extinguish with powder, carbon dioxide.
<b>EXPLOSION</b>	Gas/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Use non-sparking handtools.	In case of fire: keep cylinder cool by spraying with water. Combat fire from a sheltered position.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>•INHALATION</b>	Dizziness. Drowsiness. Headache. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	<b>ON CONTACT WITH LIQUID: FROSTBITE.</b>	Protective gloves. Cold-insulating gloves. Protective clothing.	<b>ON FROSTBITE:</b> rinse with plenty of water, do NOT remove clothes.
<b>•EYES</b>	Redness. Pain.	Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Ventilation. Remove all ignition sources. Personal protection: complete protective clothing including self-contained breathing apparatus.	Fireproof. Separated from incompatible materials. ( See Chemical Dangers. ) Cool. Store only if stabilized.	Note: D F+ symbol T symbol R: 45-12 S: 53-45 UN Hazard Class: 2.1

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0082**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

## VINYL CHLORIDE

ICSC: 0082

<p><b>I M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS COMPRESSED LIQUEFIED GAS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The gas is heavier than air, and may travel along the ground; distant ignition possible. Vinyl chloride monomer vapours are uninhibited and may form polymers in vents or flame arresters of storage tanks, resulting in blockage of vents.</p> <p><b>CHEMICAL DANGERS:</b> The substance can under specific circumstances form peroxides, initiating explosive polymerization. The substance will polymerize readily due to heating and under the influence of air, light and on contact with a catalyst, strong oxidizing agents and metals such as copper and aluminium, with fire or explosion hazard. The substance decomposes on burning producing toxic and corrosive fumes ( hydrogen chloride , phosgene ). Attacks iron and steel in the presence of moisture.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1 ppm as TWA; A1 (confirmed human carcinogen); (ACGIH 2004). MAK: Carcinogen category: 1; (DFG 2004). OSHA PEL: 1910.1017 TWA 1 ppm C 5 ppm 15-minute NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> A harmful concentration of this gas in the air will be reached very quickly on loss of containment.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes . The liquid may cause frostbite. The substance may cause effects on the central nervous system . Exposure could cause lowering of consciousness. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver, spleen, blood and peripheral blood vessels, and tissue and bones of the fingers. This substance is carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: -13°C Melting point: -154°C Relative density (water = 1): 0.9 (liquid) Density: 8 (vapour) at 15°C g/l Solubility in water: none</p>	<p>Relative vapour density (air = 1): 2.2 Flash point: -78°C c.c. Auto-ignition temperature: 472°C Explosive limits, vol% in air: 3.6-33 Octanol/water partition coefficient as log Pow: 0.6</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous to the environment; special attention should be given to ground water contamination.</p>	
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### NOTES

Depending on the degree of exposure, periodic medical examination is suggested. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert. Card has been partly updated in April 2005. See section Occupational Exposure Limits.

Transport Emergency Card: TEC (R)-20S1086

NFPA Code: H 2; F 4; R 2;

### ADDITIONAL INFORMATION

ICSC: 0082

VINYL CHLORIDE

**IMPORTANT  
LEGAL  
NOTICE:**

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# International Chemical Safety Cards

## 1,2,4-TRICHLOROBENZENE

ICSC: 1049



1,2,4-Trichlorobenzol  
 unsym-Trichlorobenzene  
 $C_6H_3Cl_3$   
 Molecular mass: 181.5

ICSC # 1049  
 CAS # 120-82-1  
 RTECS # [DC2100000](#)  
 UN # 2321  
 EC # 602-087-00-6  
 November 26, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
• <b>INHALATION</b>	Cough. Sore throat. Burning sensation.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin. Redness. Roughness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Sore throat. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Sweep spilled substance into sealable containers, if solid. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Separated from strong oxidants, acids, food and feedstuffs.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 22-38-50/53 S: 2-23-37/39-60-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1049**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# 1,2,4-TRICHLOROBEZENE

ICSC: 1049

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID OR WHITE CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes including hydrogen chloride . Reacts violently with oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 ppm; (Ceiling value); (ACGIH 2003). EU OEL: as TWA 2 ppm, 15.1 mg/m<sup>3</sup>; as STEL 5 ppm, 37.8 mg/m<sup>3</sup>; (skin); (EU 2003). OSHA PEL<sup>†</sup>: none NIOSH REL: C 5 ppm (40 mg/m<sup>3</sup>) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes the skin and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the liver .</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 213°C Melting point: 17°C Relative density (water = 1): 1.5 Solubility in water: 34.6 mg/l Vapour pressure, Pa at 25°C: 40 Relative vapour density (air = 1): 6.26</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.002 Flash point: 105°C c.c. Auto-ignition temperature: 571°C Explosive limits, vol% in air: 2.5-6.6 (at 150°C) Octanol/water partition coefficient as log Pow: 3.98</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.</p>	
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<p><b>NOTES</b></p>		
<p>The occupational exposure limit value should not be exceeded during any part of the working exposure. Also consult ICSC0344 1,3,5-Trichlorobenzene, and ICSC1222 1,2,3-Trichlorobenzene.</p>		
		<p>Transport Emergency Card: TEC (R)-61GT1-III</p>
		<p>NFPA Code: H2; F1; R0;</p>

<p><b>ADDITIONAL INFORMATION</b></p>		
<p><b>ICSC: 1049</b></p>	<p>(C) IPCS, CEC, 1994</p>	<p><b>1,2,4-TRICHLOROBEZENE</b></p>

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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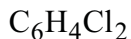
# International Chemical Safety Cards

## 1,2-DICHLOROBENZENE

ICSC: 1066



ortho-Dichlorobenzene



Molecular mass: 147.0

ICSC # 1066  
 CAS # 95-50-1  
 RTECS # [CZ4500000](#)  
 UN # 1591  
 EC # 602-034-00-7  
 November 26, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 66°C explosive vapour/air mixtures may be formed.	Above 66°C use a closed system, ventilation.	
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Cough. Drowsiness. Sore throat. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness. Pain. Dry skin.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Separated from aluminium, oxidants and food and feedstuffs.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 22-36/37/38-50/53 S: 2-23-60-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1066**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,2-DICHLOROBENZENE

ICSC: 1066

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO YELLOW LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive gases including hydrogen chloride . Reacts with aluminium and oxidants . Attacks plastic and rubber.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> OSHA PEL: C 50 ppm (300 mg/m<sup>3</sup>) NIOSH REL: C 50 ppm (300 mg/m<sup>3</sup>) NIOSH IDLH: 200 ppm See: <a href="#">95501</a> TLV: 25 ppm as TWA; 50 ppm as STEL; A4; (ACGIH 2003). MAK: 10 ppm, 61 mg/m<sup>3</sup>; H; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2003).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract . The substance may cause effects on the central nervous system and liver . Exposure could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin. The substance may have effects on the kidneys , blood .</p>
	<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 180-183°C Melting point: -17°C Relative density (water = 1): 1.3 Solubility in water: very poor Vapour pressure, kPa at 20°C: 0.16</p>
<b>ENVIRONMENTAL DATA</b>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish. It is strongly advised that this substance does not enter the environment.</p>	
<b>NOTES</b>		
<p>Transport Emergency Card: TEC (R)-61GT1-III</p> <p>NFPA Code: H2; F2; R0;</p>		
<b>ADDITIONAL INFORMATION</b>		
<p>ICSC: 1066 <span style="float: right;">1,2-DICHLOROBENZENE</span></p> <p>(C) IPCS, CEC, 1994</p>		



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version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,3-DICHLOROBENZENE

ICSC: 1095



m-Dichlorobenzene  
 m-Phenylene dichloride  
 $C_6H_4Cl_2$   
 Molecular mass: 147.00

ICSC # 1095  
 CAS # 541-73-1  
 RTECS # [CZ4499000](#)  
 UN # 2810  
 EC # 602-067-00-7  
 April 10, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 63°C explosive vapour/air mixtures may be formed.	Above 63°C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Cough. Drowsiness. Nausea. Sore throat. Vomiting. See Notes.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter	Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access. Separated from strong oxidants, aluminium, food and feedstuffs. Well closed.	Do not transport with food and feedstuffs. Xn symbol N symbol R: 22-51/53	

the environment. (Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust).

S: 2-61  
UN Hazard Class: 6.1  
UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1095**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,3-DICHLOROBENZENE

**ICSC: 1095**

<p><b>I M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes including hydrogen chloride . Reacts with strong oxidants. Reacts violently with aluminium .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: 2 ppm, 12 mg/m<sup>3</sup>; Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2008).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The vapour irritates the eyes, the skin and the respiratory tract. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the kidneys and liver . See Notes.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 173°C Melting point: -24.8°C Relative density (water = 1): 1.288 Solubility in water: none</p>	<p>Vapour pressure, kPa at 25°C: 0.286 Relative vapour density (air = 1): 5.1 Flash point: 63°C Octanol/water partition coefficient as log Pow: 3.53</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish .</p>	
<p><b>NOTES</b></p>		
<p>Data on the toxicity of m-dichlorobenzene are limited. Also consult ICSC #0037 (p-Dichlorobenzene) and #1066 (o-Dichlorobenzene).</p> <p style="text-align: right;">Card has been partially updated in November 2008: see Occupational Exposure Limits, Storage.</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		



**ICSC: 1095****1,3-DICHLOROBENZENE**

(C) IPCS, CEC, 1994

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NOTICE:**

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# International Chemical Safety Cards

## 1,4-DICHLOROBENZENE

ICSC: 0037



p-Dichlorobenzene  
PDCB  
 $C_6H_4Cl_2$   
Molecular mass: 147

ICSC # 0037  
CAS # 106-46-7  
RTECS # [CZ4550000](#)  
UN # 3077  
EC # 602-035-00-2

November 26, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 66°C explosive vapour/air mixtures may be formed.	Above 66°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
<b>•INHALATION</b>	Burning sensation. Cough. Drowsiness. Headache. Nausea. Shortness of breath. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Diarrhoea. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Give plenty of water to drink. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: filter respirator for organic gases and vapours. Do NOT let	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs . Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 36-40-50/53	

this chemical enter the environment.	S: 2-36/37-46-60-61 UN Hazard Class: 9 UN Packing Group: III
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**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 0037**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 1,4-DICHLOROBENZENE

**ICSC: 0037**

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO WHITE CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic and corrosive fumes including hydrogen chloride. Reacts with strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA; A3; (ACGIH 2004). MAK: H; Carcinogen category: 2; Germ cell mutagen group: 3B; (DFG 2004). OSHA PEL<sup>±</sup>: TWA 75 ppm (450 mg/m<sup>3</sup>) NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca 150 ppm See: <a href="#">106467</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the respiratory tract . The substance may cause effects on the blood , resulting in haemolytic anaemia. The substance may cause effects on the central nervous system. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver, kidneys and blood. This substance is possibly carcinogenic to humans.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 174°C Melting point: 53°C Density: 1.2 g/cm <sup>3</sup> Solubility in water: at 25 °C 80 mg/l Vapour pressure, Pa at 20°C: 170	Relative vapour density (air = 1): 5.08 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 66°C c.c. Explosive limits, vol% in air: 6.2-16 Octanol/water partition coefficient as log Pow: 3.37
<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.	
<b>NOTES</b>		
Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.		
Transport Emergency Card: TEC (R)-90GM7-III		



NFPA Code: H 2; F 2; R 0;

**ADDITIONAL INFORMATION**

**ICSC: 0037**

**1,4-DICHLOROBENZENE**

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# International Chemical Safety Cards

## 2,4,5-TRICHLOROPHENOL

ICSC: 0879



2,4,5-TCP  
 1-Hydroxy-2,4,5-trichlorobenzene  
 $C_6H_3Cl_3O$  /  $C_6H_2Cl_3(OH)$   
 Molecular mass: 197.5

ICSC # 0879  
 CAS # 95-95-4  
 RTECS # [SN1400000](#)  
 UN # 2020  
 EC # 604-017-00-X  
 March 25, 1998 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with strong oxidants.	Water spray, powder.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
<b>•INHALATION</b>	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
<b>•SKIN</b>	Redness. Pain.	Protective gloves. Protective clothing.	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
<b>•EYES</b>	Redness. Pain. Blurred vision.	Safety goggles, face shield, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Diarrhoea. Dizziness. Headache. Vomiting. Fatigue. Sweating.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
(Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust). Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then	Separated from strong oxidants, food and feedstuffs. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 22-36/38-50/53	

remove to safe place. Do NOT let this chemical enter the environment.

S: 2-26-28-60-61  
UN Hazard Class: 6.1  
UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 0879**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 2,4,5-TRICHLOROPHENOL

**ICSC: 0879**

<p><b>I M P O R T A N T A T T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALS OR GREY FLAKES , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> May explode on heating to decomposition. The substance decomposes on heating and on contact with strong oxidants producing toxic and irritating fumes (chlorine, hydrochloric acid). The substance is a weak acid. Reacts in an alkaline medium at high temperatures producing highly toxic chlorinated dioxins.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: Iib (not established but data is available) (DFG 2008).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes, the skin and the respiratory tract.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the liver and kidneys. (see Notes). ted at PR-update 2010, consulting K. Straif (IARC): for this particular compound there is inadequate evidence from animal data on carcinogenicity. There is human data for the mixture of polychlorophenols indicating that the mixture may have carcinogenic potential (equal to IARC group 3).</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 253°C Melting point: 67°C Density: 1.68 g/cm<sup>3</sup></p>	<p>Solubility in water, g/100 ml at 25°C: 0.1 Vapour pressure, Pa at 25°C: 2.9 Octanol/water partition coefficient as log Pow: 3.7</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment. Avoid release to the environment in circumstances different to normal use.</p>	
<p><b>NOTES</b></p>		
<p>Technical products may contain highly toxic impurities such as polychlorinated dibenzodioxins and dibenzofurans. The substance is combustible but no flash point is available in literature. Depending on the degree of exposure, periodic medical examination is indicated. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Caswell No. 879, Collunosol, Dovicide 2, NCI-C61187, Nurelle, Preventol I are trade names. Also consult ICSC #0588 2,3,4-trichlorophenol, ICSC #0589 2,3,5-trichlorophenol, ICSC #0590 2,3,6-trichlorophenol and ICSC #1122 2,4,6-trichlorophenol.</p>		

Transport Emergency Card: TEC (R)-804  
 Card has been partially updated in November 2008: see Occupational Exposure Limits,  
 Card has been partially updated in May 2010: see Effects of Long-Term or Repeated Exposure.

**ADDITIONAL INFORMATION**

**ICSC: 0879**

**2,4,5-TRICHLOROPHENOL**

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# International Chemical Safety Cards

## 2,4,6-TRICHLOROPHENOL

ICSC: 1122



2,4,6-TCP  
 $C_6H_3Cl_3O$  /  $C_6H_2Cl_3OH$   
 Molecular mass: 197.45

ICSC # 1122  
 CAS # 88-06-2  
 RTECS # [SN1575000](#)  
 UN # 2020  
 EC # 604-018-00-5  
 November 25, 1998 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
• <b>INHALATION</b>	Cough. Sore throat.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
• <b>EYES</b>	Redness. Pain.	Safety goggles, or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Convulsions. Diarrhoea. Dizziness. Headache. Shortness of breath. Vomiting. Weakness. Ataxia.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer immediately for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for	Separated from strong oxidants, and food and feedstuffs. Well closed.	Do not transport with food and feedstuffs. Xn symbol N symbol R: 22-36/38-40-50/53 S: 2-36/37-60-61 UN Hazard Class: 6.1

harmful particles).

UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1122**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 2,4,6-TRICHLOROPHENOL

**ICSC: 1122**

<p><b>I M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO YELLOW CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride and chlorine fumes. Reacts with strong oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes , the skin and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis including chloracne. The substance may have effects on the liver , resulting in impaired functions. up 2B); 27 (EPA has determined that this substance is a probable carcinogen).;</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 246°C Melting point: 69°C Density: 1.5 g/cm<sup>3</sup> at 58°C Solubility in water: none</p>	<p>Vapour pressure, Pa at 76.5°C: 133 Flash point: 99°C c.c. Octanol/water partition coefficient as log Pow: 3.87</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish.</p>	
<p><b>NOTES</b></p>		
<p>Technical grade of this substance may include the polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans and other contaminants. Dovicide 2S, Omal are trade names.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-804/61G12c</p> <p style="text-align: center;">Card has been partially updated in May 2010: see Effects of Long-Term or Repeated Exposure.</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p><b>ICSC: 1122</b> <span style="float: right;"><b>2,4,6-TRICHLOROPHENOL</b></span></p> <p style="text-align: center;">(C) IPCS, CEC, 1994</p>		





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# International Chemical Safety Cards

## 2,4-DICHLOROPHENOL

ICSC: 0438



2,4-DCP  
 2,4-Dichlorohydroxybenzene  
 1-Hydroxy-2,4-dichlorobenzene  
 $C_6H_4Cl_2O$   
 Molecular mass: 163.0

ICSC # 0438  
 CAS # 120-83-2  
 RTECS # [SK8575000](#)  
 UN # 2020  
 EC # 604-011-00-7  
 June 06, 2010 Validated  
 Pu, hed in Series 6.



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	water spray, foam, powder, carbon dioxide
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent build-up of electrostatic charges (e.g., by grounding).	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! PREVENT GENERATION OF MISTS! AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Sore throat. Cough. Burning sensation behind the breastbone. Shortness of breath. Laboured breathing. Further see Ingestion.	Local exhaust or breathing protection.	Fresh air, rest. Half-upright position. Refer immediately for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. Pain. Blisters. (Further see Inhalation).	Protective gloves. Protective clothing.	Wear protective gloves when administering first aid. Remove contaminated clothes. (See Notes). To remove substance use polyethylene glycol 400 or vegetable oil. Rinse skin with plenty of water or shower. Refer immediately for medical attention.
<b>•EYES</b>	Redness. Pain. Severe burns. vere corneal damage)	Face shield and eye protection in combination with breathing protection.	Rinse with plenty of water (remove contact lenses if easily possible). Refer immediately for medical attention.
	Burns in mouth and throat.	Do not eat, drink, or smoke	Rinse mouth. Do NOT induce


<b>•INGESTION</b>	Abdominal pain. Tremor. Convulsions. Shock or collapse.	during work.	vomiting. Refer immediately for medical attention.
<b>SPILLAGE DISPOSAL</b>	<b>STORAGE</b>		<b>PACKAGING &amp; LABELLING</b>
Personal protection: Chemical protection suit including self-contained breathing apparatus. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Fireproof. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs . Ventilation along the floor. 22309000		Do not transport with food and feedstuffs. T symbol N symbol R: 22-24-34-51/53 S: 1/2-26-36/37/39-45-61 UN Hazard Class: 6.1 UN Packing Group: III Signal: Danger Corr-Skull-Health haz-Enviro Harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage Causes damage to the central nervous system May cause damage to the respiratory system if inhaled Toxic to aquatic life with long-lasting effects
<b>SEE IMPORTANT INFORMATION ON BACK</b>			
<b>ICSC: 0438</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.		

# International Chemical Safety Cards

## 2,4-DICHLOROPHENOL

**ICSC: 0438**

<p><b>I</b></p> <p><b>M</b></p> <p><b>P</b></p> <p><b>O</b></p> <p><b>R</b></p> <p><b>T</b></p> <p><b>A</b></p> <p><b>N</b></p> <p><b>T</b></p> <p><b>D</b></p> <p><b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air. If dry, it can be charged electrostatically by swirling, pneumatic transport, pouring, etc. Wiley's Guide to Incompatible chemicals, 3rd ed.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic fumes including chlorine , hydrogen chloride, and on burning phosgene and dioxins. Reacts violently with acids and strong oxidants . ESTIS</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion. Serious local effects by all routes of exposure. ermal LD50 790mg/kg</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C; when in molten form, however, evaporation will be much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. The hot liquid may cause severe skin burns. Exposure to the molten substance may result in extensive skin absorption and rapid death. Inhalation of the vapour may cause lung oedema (see Notes). Medical observation is indicated. The substance may cause effects on</p>
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<b>T A</b>	<p>the central nervous system</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> nce is possibly carcinogenic to humans.</p>	
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 210.0°C Melting point: 45.0°C Density: 1.4 g/cm<sup>3</sup> Solubility in water, g/100 ml at 20°C: 0.45 (poor)</p>	<p>Vapour pressure, Pa at 20°C: 10 Relative vapour density (air = 1): 5.6 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Flashpoint: 113°C c.c. Auto-ignition temperature: 500°C Octanol/water partition coefficient as log Pow: 3.17</p>
<b>ENVIRONMENTAL DATA</b>	<p>The substance is toxic to aquatic organisms. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal. des.</p>	
<b>NOTES</b>		
<p>The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Isolate contaminated clothing by sealing in a bag or other container.</p> <p style="text-align: right;">NFPA Code: H3; F1; R0.</p>		
<b>ADDITIONAL INFORMATION</b>		
<p><b>ICSC: 0438</b> <span style="float: right;"><b>2,4-DICHLOROPHENOL</b></span></p> <p style="text-align: center;">(C) IPCS, CEC, 1994</p>		
<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>	

# International Chemical Safety Cards

## 2,4-XYLENOL

ICSC: 0458



2,4-Dimethylphenol  
 m-Xylenol  
 1-Hydroxy-2.4-dimethylbenzene  
 $C_8H_{10}O / (CH_3)_2C_6H_3OH$   
 Molecular mass: 122.17

ICSC # 0458  
 CAS # 105-67-9  
 RTECS # [ZE5600000](#)  
 UN # 2261  
 EC # 604-006-00-X  
 July 05, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! PREVENT GENERATION OF MISTS! STRICT HYGIENE!	
<b>•INHALATION</b>	Burning sensation. Cough. Sore throat. Shortness of breath. See Notes.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Redness. Pain. Skin burns.	Protective clothing. Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain. Severe deep burns.	Safety goggles, face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Abdominal pain. Nausea. Vomiting. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>

<p>Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. If liquid: Collect leaking liquid in covered plastic containers. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.</p>	<p>Separated from food and feedstuffs , acid anhydrides , acid chlorides , bases and oxidants .</p>	<p>Do not transport with food and feedstuffs. Marine pollutant. Note: C T symbol N symbol R: 24/25-34-51/53 S: 1/2-26-36/37/39-45-61 UN Hazard Class: 6.1 UN Packing Group: II</p>
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<b>ICSC: 0458</b>	<p>Prepared in the context of cooperation between the International Programme on Chemical Safety &amp; the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>	

# International Chemical Safety Cards

## 2,4-XYLENOL

**ICSC: 0458**

<p><b>I M P O R T A N T A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW TO BROWN LIQUID OR COLOURLESS CRYSTALS .</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic gases and irritating fumes . Reacts with acid anhydrides , acid chlorides , bases , oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, by ingestion and through the skin.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is corrosive to the skin the respiratory tract and the eyes. Corrosive on ingestion. Inhalation of an aerosol of this substance may cause lung oedema (see Notes).</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization.</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 211.5°C Melting point: 25.4-26°C Density: 0.97 g/cm<sup>3</sup> Solubility in water, g/100 ml at 25°C: 0.79</p>	<p>Vapour pressure, Pa at 20°C: 8 Flash point: &gt;112°C c.c. Auto-ignition temperature: 599°C Explosive limits, vol% in air: 1.1-6.4 Octanol/water partition coefficient as log Pow: 2.3</p>
<b>ENVIRONMENTAL DATA</b>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.</p>	
<b>NOTES</b>		





The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered. Card has been partly updated in October 2005. See section EU classification.

NFPA Code: H2; F1; R; 0  
 Transport Emergency Card: TEC (R)-61GT1-II

**ADDITIONAL INFORMATION**

**ICSC: 0458**

**2,4-XYLENOL**

(C) IPCS, CEC, 1994

**IMPORTANT  
 LEGAL  
 NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 2,4-DINITROPHENOL

ICSC: 0464



1-Hydroxy-2,4-dinitrobenzene  
 $C_6H_4N_2O_5 / C_6H_3(OH)(NO_2)_2$   
 Molecular mass: 184.11

ICSC # 0464  
 CAS # 51-28-5  
 RTECS # [SL2800000](#)  
 UN # 1320 (wetted with no less than 15% water)  
 EC # 609-041-00-4  
 March 25, 1996 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water in large amounts.
<b>EXPLOSION</b>	Risk of fire and explosion.	Do NOT expose to friction or shock.	In case of fire: keep drums, etc., cool by spraying with water. Combat fire from a sheltered position.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
<b>•INHALATION</b>	See Ingestion.	Local exhaust or breathing protection.	Fresh air, rest (see Notes). Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. Roughness. Yellow staining of the skin. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Nausea. Vomiting. Palpitations. Collapse. Sweating.	Do not eat, drink, or smoke during work.	Rest. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Evacuate danger area! Do not allow to dry out. Sweep spilled substance into containers. Wipe up remainder in sand or other inert material, then remove to safe place. Personal protection: complete protective clothing including	Fireproof. Separated from combustible and reducing substances, food and feedstuffs. Cool.	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Marine pollutant. Note: C	

self-contained breathing apparatus.		T symbol N symbol R: 23/24/25-33-50 S: 1/2-28-37-45-61 UN Hazard Class: 4.1 UN Subsidiary Risks: 6.1 UN Packing Group: I
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**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0464** Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## 2,4-DINITROPHENOL

**ICSC: 0464**

I  M  P  O  R  T  A  N  T  D  A  T  A	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS. (SEE NOTES).</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> May explosively decompose on shock, friction, or concussion. May explode on heating. Shock-sensitive compounds are formed with alkalis, ammonia and most metals. The substance decomposes on heating producing toxic gases including nitrogen oxides (see Notes).</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on metabolism, resulting in very high body temperature. Exposure may result in death.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the peripheral nervous system. The substance may have effects on the eyes, resulting in cataracts.</p>
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<b>PHYSICAL PROPERTIES</b>	Sublimation Melting point: 112°C Relative density (water = 1): 1.68	Solubility in water, g/100 ml at 54.5°C: 0.14 Relative vapour density (air = 1): 6.36
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<b>ENVIRONMENTAL DATA</b>	This substance may be hazardous to the environment; special attention should be given to aquatic organisms.	
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**NOTES**

Use all available methods for reducing body temperature. Because of its explosive properties, the compound is used in the form of a water paste. UN 0076 applies to the dry compound. CAS 25550-58-7 applies to unspecified isomers of dinitrophenol. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-41GDT-I

**ADDITIONAL INFORMATION**

<b>ICSC: 0464</b>	<b>2,4-DINITROPHENOL</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## 2,4-DINITROTOLUENE

ICSC: 0727



1-Methyl-2,4-dinitrobenzene  
 2,4-DNT  
 $C_7H_6N_2O_4 / C_6H_3CH_3(NO_2)_2$   
 Molecular mass: 182.1

ICSC # 0727  
 CAS # 121-14-2  
 RTECS # [XT1575000](#)  
 UN # 3454  
 EC # 609-007-00-9  
 April 21, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air. Risk of explosion on contact with many substances.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water. Combat fire from a sheltered position.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
<b>•INHALATION</b>	Blue lips or finger nails. Blue skin. Headache. Dizziness. Nausea. Confusion. Convulsions. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! (See Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>	<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>	
Consult an expert! Personal protection: chemical protection suit including self-	Fireproof. Separated from strong bases, food and	Do not transport with food and feedstuffs.	

contained breathing apparatus. Do NOT let this chemical enter the environment. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	feedstuffoxidants,strong reducing agents. Well closed. Keep in a well-ventilated room. Store in an area without drain or sewer access.	Note: E T symbol N symbol R: 45-23/24/25-48/22-62-68-51/53 S: 53-45-61 UN Hazard Class: 6.1 UN Packing Group: II
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**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0727**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## 2,4-DINITROTOLUENE

**ICSC: 0727**

<b>I M P O R T A N T D A T A</b>	<b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS , WITH CHARACTERISTIC ODOUR.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
	<b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.	<b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.
	<b>CHEMICAL DANGERS:</b> May explode on heating. The substance decomposes on heating producing toxic and corrosive fumesincluding nitrogen oxides even in absence of air. Reacts with reducing agents , strong bases and oxidants causing explosion hazard.	<b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the blood , resulting in formation of methaemoglobin. The effects may be delayed. Medical observation is indicated.
	<b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.2 mg/m <sup>3</sup> as TWA; A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 2; (DFG 2004). TLV and MAK are for mixed isomers (CAS 25321-14-6)	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood , resulting in formation of methaemoglobin. This substance is possibly carcinogenic to humans.

<b>PHYSICAL PROPERTIES</b>	Boiling point (decomposes): >250°C Melting point: 71°C Density: 1.52 g/cm <sup>3</sup> Solubility in water: very poor	Vapour pressure, Pa at 25°C: 0.02 Relative vapour density (air = 1): 6.28 Flash point: 169°C c.c. Octanol/water partition coefficient as log Pow: 1.98
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<b>ENVIRONMENTAL DATA</b>	The substance is harmful to aquatic organisms.	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. Specific treatment is necessary in case



of poisoning with this substance; the appropriate means with instructions must be available. Do NOT take working clothes home. UN number for molten form: UN1600, TEC (R): 61GT1-II

Transport Emergency Card: TEC (R)-61S3454; 61GT2-II

NFPA Code: H3; F1; R3;

**ADDITIONAL INFORMATION**

**ICSC: 0727**

**2,4-DINITROTOLUENE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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# International Chemical Safety Cards

## 2,6-DINITROTOLUENE

ICSC: 0728



1-Methyl-2,6-dinitrobenzene  
 2,6-DNT  
 $C_7H_6N_2O_4 / C_6H_3CH_3(NO_2)_2$   
 Molecular mass: 182.1

ICSC # 0728  
 CAS # 606-20-2  
 RTECS # [XT1925000](#)  
 UN # 3454  
 EC # 609-049-00-8  
 April 21, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air. Risk of explosion on contact with many substances.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water. Combat fire from a sheltered position.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
<b>•INHALATION</b>	Blue lips or finger nails. Blue skin. Headache. Dizziness. Nausea. Confusion. Convulsions. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! (See Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp;</b>

		<b>LABELLING</b>
Consult an expert! Personal protection: chemical protection suit including self-contained breathing apparatus. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Fireproof. Separated from strong bases, food and feedstuffs, oxidants, strong reducing agents. Well closed. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Note: E T symbol R: 45-23/24/25-48/22-62-68-52/53 S: 53-45-61 UN Hazard Class: 6.1 UN Packing Group: II
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<b>ICSC: 0728</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## 2,6-DINITROTOLUENE

**ICSC: 0728**

<b>I M P O R T A N T I N F O R M A T I O N</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW , BROWN TO RED CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> May explode on heating. The substance decomposes on heating producing toxic and corrosive fumes including nitrogen oxides even in absence of air. Reacts with reducing agents , strong bases and oxidants causing explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.2 mg/m<sup>3</sup> as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2004). MAK: skin absorption (H); Carcinogen category: 2; (DFG 2004). TLV and MAK are for mixed isomers (CAS 25321-14-6)</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the blood , resulting in formation of methaemoglobin. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood , resulting in formation of methaemoglobin. This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point (decomposes): 285°C Melting point: 66°C Relative density (water = 1): 1.283 (liquid) Solubility in water: very poor</p>	<p>Vapour pressure, Pa at 20°C: 2.4 Relative vapour density (air = 1): 6.28 Flash point: 207°C c.c. Octanol/water partition coefficient as log Pow: 2.05</p>
<b>ENVIRONMENTAL DATA</b>		
<b>NOTES</b>		

Depending on the degree of exposure, periodic medical examination is suggested. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. Do NOT take working clothes home. UN number for molten form: UN1600. See also ICSC0465 Dinitrotoluene (mixed isomers).

Transport Emergency Card: TEC (R)-61S3454; 61GT2-II

NFPA Code: H3; F1; R3;

**ADDITIONAL INFORMATION**

**ICSC: 0728**

**2,6-DINITROTOLUENE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 4-Bromodiphenyl ether

Product Number : B65209  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>12</sub>H<sub>9</sub>BrO  
Molecular Weight : 249.1 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>4-Bromophenyl phenyl ether</b>			
101-55-3	202-952-4	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Harmful by ingestion., Skin sensitizer, Irritant

**HMIS Classification**

Health Hazard: 2

Flammability: 1

Physical hazards: 0

**NFPA Rating**

Health Hazard: 2

Fire: 1

Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** Harmful if swallowed.

**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point > 113.0 °C (> 235.4 °F) - closed cup

Ignition temperature no data available

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	colourless

**Safety data**

pH	no data available
Melting point	18 °C (64 °F)
Boiling point	305 °C (581 °F)
Flash point	> 113.0 °C (> 235.4 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.423 g/mL at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 4.34

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Irritation and corrosion**

no data available

### Sensitisation

May cause sensitization by skin contact.

### Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	Harmful if swallowed.

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## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 50.90 mg/l - 24 h
	LC50 - Lepomis macrochirus (Bluegill) - 9.60 mg/l - 48 h

### Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s.  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN-Number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-Bromophenyl phenyl ether)  
Marine pollutant: No

**IATA**

UN-Number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, liquid n.o.s. (4-Bromophenyl phenyl ether)

**15. REGULATORY INFORMATION**

**OSHA Hazards**

Harmful by ingestion., Skin sensitizer, Irritant

**DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

4-Bromophenyl phenyl ether	CAS-No. 101-55-3
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**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

4-Bromophenyl phenyl ether	CAS-No. 101-55-3	Revision Date 1989-12-01
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**Pennsylvania Right To Know Components**

4-Bromophenyl phenyl ether	CAS-No. 101-55-3	Revision Date 1989-12-01
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**New Jersey Right To Know Components**

4-Bromophenyl phenyl ether	CAS-No. 101-55-3	Revision Date 1989-12-01
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION**

**Further information**

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# International Chemical Safety Cards

## o-CHLOROPHENOL

ICSC: 0849



2-Chlorophenol  
 2-Chloro-1-hydroxybenzene  
 2-Hydroxychlorobenzene  
 $C_6H_5ClO / C_6H_4ClOH$   
 Molecular mass: 128.6

ICSC # 0849  
 CAS # 95-57-8  
 RTECS # [SK2625000](#)  
 UN # 2021  
 EC # 604-008-00-0  
 March 24, 1999 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 64°C explosive vapour/air mixtures may be formed.	Above 64°C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Cough. Shortness of breath. Sore throat. (see Ingestion). Symptoms may be delayed (see Notes).	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration if indicated. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain. Blurred vision.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Drowsiness. Weakness. Convulsions.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>	<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>	
Collect leaking liquid in covered containers. Carefully collect remainder,	Separated from strong oxidants, food and feedstuffs. Well closed.	Do not transport with food and feedstuffs.	

then remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours). Chemical protection suit.

Marine pollutant.  
 Note: C  
 Xn symbol  
 N symbol  
 R: 20/21/22-51/53  
 S: 2-28-61  
 UN Hazard Class: 6.1  
 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 0849**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## **o-CHLOROPHENOL**

**ICSC: 0849**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b>                  The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b>                  The substance decomposes on burning producing toxic and corrosive fumes (hydrochloric acid, chlorine). Reacts with oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b>                  No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance strongly irritates the eyes, the skin and the respiratory tract. Inhalation of the aerosol may cause lung oedema (see Notes). The substance may cause effects on the central nervous system.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 175°C                  Melting point: 9.3-9.8                  Relative density (water = 1): 1.3                  Solubility in water, g/100 ml at 20°C: 2.85                  Vapour pressure, Pa at 20°C: 230</p>	<p>Relative vapour density (air = 1): 4.4                  Relative density of the vapour/air-mixture at 20°C (air = 1): 1.08                  Flash point: 64°C c.c.                  Octanol/water partition coefficient as log Pow: 2.15</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.</p>	

**NOTES**

The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Immediate administration of an appropriate spray, by



a doctor or a person authorized by him/her, should be considered. Pine-O Disinfectant and Septi-Kleen are trade names.  
 Transport Emergency Card: TEC (R)-799  
 NFPA Code: H3; F2; R0;

**ADDITIONAL INFORMATION**

**ICSC: 0849**

**o-CHLOROPHENOL**

(C) IPCS, CEC, 1994





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 LEGAL  
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# International Chemical Safety Cards

## 2-METHYLNAPHTHALENE


ICSC: 1276

beta-Methylnaphthalene  
 $C_{11}H_{10}$   
 Molecular mass: 142.2



ICSC # 1276  
 CAS # 91-57-6  
 RTECS # [QJ9635000](#)  
 September 10, 1997 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder , foam , carbon dioxide .
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Cough.	Local exhaust.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access.	Marine pollutant.

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1276**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards


## 2-METHYLNAPHTHALENE

ICSC: 1276

<p><b>I</b></p> <p><b>M</b></p> <p><b>P</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p><b>INHALATION RISK:</b></p>
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<p><b>O R T A N T D A T A</b></p>	<p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing acrid smoke and irritating fumes.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 ppm as TWA; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2008). MAK not established.</p>	<p>No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Lungs may be affected by repeated or prolonged exposure.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 241°C Melting point: 35°C Relative density (water = 1): 1.00</p>	<p>Solubility in water, g/100 ml at 25°C: 0.003 Vapour pressure, Pa at °C: 9 Octanol/water partition coefficient as log Pow: 3.86</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.</p>	
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**NOTES**

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.  
Card has been partially updated in February 2009: see Occupational Exposure Limits,

**ADDITIONAL INFORMATION**

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<b>ICSC: 1276</b>	(C) IPCS, CEC, 1994	<b>2-METHYLNAPHTHALENE</b>
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# International Chemical Safety Cards

**o-CRESOL**

ICSC: 0030



2-Hydroxy-1-methylbenzene  
 2-Methylphenol  
 ortho-Hydroxytoluene  
 2-Cresol  
 $C_7H_8O / CH_3C_6H_4OH$   
 Molecular mass: 108.1

ICSC # 0030  
 CAS # 95-48-7  
 RTECS # [G06300000](#)  
 UN # 3455  
 EC # 604-004-00-9



November 13, 2008 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>	Above 81°C explosive vapour/air mixtures may be formed.	Above 81°C use a closed system, ventilation.	
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>•INHALATION</b>	Cough. Sore throat. Burning sensation. Headache. Nausea. Vomiting. Shortness of breath. Laboured breathing.	Local exhaust or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration if indicated. Refer immediately for medical attention.
<b>•SKIN</b>	<b>MAY BE ABSORBED!</b> Redness. Pain. Blisters. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer immediately for medical attention.
<b>•EYES</b>	Redness. Pain. Severe deep burns.	Face shield or eye protection in combination with breathing protection.	Rinse with plenty of water (remove contact lenses if easily possible). Refer immediately for medical attention
<b>•INGESTION</b>	Burns in mouth and throat. Burning sensation in the throat and chest. Nausea. Vomiting. Abdominal pain. Shock or collapse.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Do NOT induce vomiting. Refer immediately for medical attention.
<b>SPILLAGE DISPOSAL</b>	<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>	

<p>Personal protection: filter respirator for organic gases and particulates adapted to the airborne concentration of the substance . Chemical protection suit. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.</p>	<p>Separated from strong oxidants, food and feedstuffs . Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.</p>	<p>Do not transport with food and feedstuffs.                  Marine pollutant.                  Note: C                  T symbol                  C symbol                  R: 24/25-34                  S: 1/2-36/37/39-45                  UN Hazard Class: 6.1                  UN Subsidiary Risks: 8                  UN Packing Group: II                  Signal: Danger                  Corr-Skull-Health haz                  Toxic if swallowed                  Toxic in contact with skin                  Causes severe skin burns and eye damage                  Causes damage to the central nervous system and blood cells                  Causes damage to nervous system and blood cells through prolonged or repeated exposure                  Toxic to aquatic life</p>
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<b>ICSC: 0030</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## o-CRESOL

**ICSC: 0030**

<p><b>I M P O R T A N T D A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  COLOURLESS CRYSTALS , WITH CHARACTERISTIC ODOUR. TURNS DARK ON EXPOSURE TO AIR AND LIGHT .</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b>                  Reacts violently with strong oxidants . The solution in water is a weak acid.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV: 5 ppm as TWA (skin) (ACGIH 2008).                  MAK: skin absorption (H);                  Carcinogen category: 3A; BAT issued; (DFG 2008).                  tions for the allocation into the category 4 or 5 would be fulfilled but there is not enough information to derive a MAK-value.                  OSHA PEL: TWA 5 ppm (22 mg/m<sup>3</sup>) skin                  NIOSH REL: TWA 2.3 ppm (10 mg/m<sup>3</sup>)                  NIOSH IDLH: 250 ppm See: <a href="#">cresol</a></p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation, through the skin and by ingestion. Serious local effects by all routes of exposure.</p> <p><b>INHALATION RISK:</b>                  A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The substance may cause effects on the central nervous system , resulting in lowering of consciousness. The substance may cause effects on the blood , resulting in destruction of blood cells. Exposure far above the OEL may result in death . Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<b>T A</b>	Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the nervous system, resulting in impaired functions. The substance may have effects on the blood, resulting in anaemia.			
<b>PHYSICAL PROPERTIES</b>	Boiling point: 191°C Melting point: 31°C Density: 1.05 g/cm <sup>3</sup> Solubility in water, g/100 ml at 25°C: 2.5 (moderate) Vapour pressure, Pa at 25°C: 33	Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Flash point: 81°C c.c. Auto-ignition temperature: 555°C Explosive limits, vol% in air: 1.3-? Octanol/water partition coefficient as log Pow: 1.95		
<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.			
<b>NOTES</b>				
Transport Emergency Card: TEC (R)-61GTC2-II  NFPA Code: H 3; F 2; R 0;				
<b>ADDITIONAL INFORMATION</b>				
<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>				
<b>ICSC: 0030</b>	(C) IPCS, CEC, 1994	<b>o-CRESOL</b>		
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# International Chemical Safety Cards

## 2-NITROPHENOL

ICSC: 0523



o-Nitrophenol  
 2-Hydroxynitrobenzene  
 o-Hydroxynitrobenzene  
 $C_6H_5NO_3$   
 Molecular mass: 139.1

ICSC # 0523  
 CAS # 88-75-5  
 RTECS # [SM2100000](#)  
 UN # 1663  
 October 20, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Dry powder. Carbon dioxide. Water spray . Alcohol-resistant foam.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
<b>•INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness.	Safety goggles .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Headache. Drowsiness. Nausea. Blue lips or fingernails. Blue skin. Confusion. Convulsions. Dizziness. Unconsciousness.	Do not eat, drink, or smoke during work.	Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: P2 filter respirator for harmful particles. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers.	Store in an area without drain or sewer access. Separated from strong oxidants, strong bases, strong acids, food and feedstuffs .	Do not transport with food and feedstuffs. UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0523**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 2-NITROPHENOL

**ICSC: 0523**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes including nitrogen oxides . Reacts with strong acids , strong bases and strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is mildly irritating to the eyes and the skin . When ingested the substance may cause effects on the blood , resulting in the formation of methaemoglobin.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 216°C Melting point: 45-46°C Density: 1.49 g/cm<sup>3</sup> Solubility in water, g/100 ml at 20°C: 210 (poor)</p>	<p>Vapour pressure, kPa at 25°C: 0.015 Flash point: 108°C c.c. Auto-ignition temperature: 550°C Octanol/water partition coefficient as log Pow: 1.79</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms.</p>	
<p><b>NOTES</b></p>		
<p>Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61S1663 or 61GT2-III</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p><b>ICSC: 0523</b> <span style="float: right;"><b>2-NITROPHENOL</b></span></p> <p style="text-align: center;">(C) IPCS, CEC, 1994</p>		



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# International Chemical Safety Cards

## 4-NITROANILINE

ICSC: 0308



p-Nitroaniline  
 1-Amino-4-nitrobenzene  
 C.I. 37035  
 $C_6H_6N_2O_2$   
 Molecular mass: 138.1

ICSC # 0308  
 CAS # 100-01-6  
 RTECS # [BY7000000](#)  
 UN # 1661  
 EC # 612-012-00-9  
 December 03, 2001 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Many reactions may cause fire or explosion.	NO open flames. NO contact with combustible substances.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water. Combat fire from a sheltered position.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
<b>•INHALATION</b>	Blue lips or finger nails. Blue skin. Headache. Dizziness. Nausea. Confusion. Convulsions. Laboured breathing. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>

<p>Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water. (Extra personal protection: P3 filter respirator for toxic particles.) Do NOT let this chemical enter the environment.</p>	<p>Separated from strong acids, strong oxidants, combustible and reducing substances, food and feedstuffs . Dry.</p>	<p>Do not transport with food and feedstuffs.                  Note: C                  T symbol                  R: 23/24/25-33-52/53                  S: 1/2-28-36/37-45-61                  UN Hazard Class: 6.1                  UN Packing Group: II</p>
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<b>ICSC: 0308</b>	<p>Prepared in the context of cooperation between the International Programme on Chemical Safety &amp; the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>	

# International Chemical Safety Cards

## 4-NITROANILINE

**ICSC: 0308**

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS OR POWDER.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> May explode on heating. On combustion, forms toxic fumes of nitrogen oxides. Reacts with strong acids , strong oxidants and strong reducing agents . Reacts with organic materials in presence of moisture causing fire hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV: 3 mg/m<sup>3</sup>                  (as TWA)                  (skin) A4 (not classifiable as a human carcinogen); BEI issued (ACGIH 2005).                  MAK: skin absorption (H);                  Carcinogen category: 3A                  (DFG 2005).                  OSHA PEL<sup>†</sup>: TWA 6 mg/m<sup>3</sup> (1 ppm) skin                  NIOSH REL: TWA 3 mg/m<sup>3</sup> skin                  NIOSH IDLH: 300 mg/m<sup>3</sup> See: <a href="#">100016</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is mildly irritating to the eyes . The substance may cause effects on the blood , resulting in formation of methaemoglobin. The effects may be delayed. Medical observation is indicated. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood , resulting in the formation of methaemoglobin. See Notes.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 332°C Melting point: 148°C Density: 1.4 g/cm <sup>3</sup> Solubility in water, g/100 ml at 18.5°C: 0.08	Vapour pressure, Pa at 20°C: 0.2 Relative vapour density (air = 1): 4.8 Flash point: 199°C Octanol/water partition coefficient as log Pow: 2.66
<b>ENVIRONMENTAL DATA</b>	The substance is harmful to aquatic organisms. Do not let this chemical enter the environment.	



### NOTES

Depending on the degree of exposure, periodic medical examination is indicated. Specific treatment is necessary in case

of poisoning with this substance; the appropriate means with instructions must be available. Also consult ICSC 0306 2-Nitroaniline, and ICSC 0307 3-Nitroaniline.

Transport Emergency Card: TEC (R)-61G12b

NFPA Code: H 3; F 1; R 2;

**ADDITIONAL INFORMATION**

**ICSC: 0308**

**4-NITROANILINE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



# International Chemical Safety Cards

## 3,3'-DICHLOROBENZIDINE

ICSC: 0481



3,3'-Dichlorobiphenyl-4,4'-ylenediamine  
 4,4'-Diamino-3,3'-dichlorobiphenyl  
 $C_6H_3ClNH_2C_6H_3ClNH_2/C_{12}H_{10}Cl_2N_2$   
 Molecular mass: 253.1

ICSC # 0481  
 CAS # 91-94-1  
 RTECS # [DD0525000](#)  
 EC # 612-068-00-4  
 May 05, 2010 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Fine water spray, Dry powder. Carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
<b>•INHALATION</b>	Cough. Sore throat.	Avoid inhalation of dust Local exhaust or breathing protection.	Fresh air, rest. Seek medical attention if you feel unwell .
<b>•SKIN</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Seek medical attention if you feel unwell .
<b>•EYES</b>		Face shield or eye protection in combination with breathing protection if powder.	Rinse with plenty of water (remove contact lenses if easily possible).
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Personal protection: complete protective clothing including self-contained breathing apparatus. Do NOT let this chemical enter the environment . Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. ase sealable	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Well closed. Store in original container. Store in an area without drain or sewer access. replaced by 22211100 in update May 2010	Do not transport with food and feedstuffs. Note: E T symbol N symbol R: 45-21-43-50/53 S: 53-45-60-61 Signal: Danger Excl mark-Health haz-Enviro	

deleted and replaced by 21223060 in update May 2010		Suspected of causing genetic defects May cause cancer May cause respiratory irritation May cause damage to liver through prolonged or repeated exposure if swallowed Toxic to aquatic life with long-lasting effects
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**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0481**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 3,3'-DICHLOROBENZIDINE

**ICSC: 0481**

<p><b>I M P O R T A N T A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> GREY TO PURPLE CRYSTALS.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes including nitrogen oxides and hydrogen chloride . update may 2010 and replaced by 13347000 according to the CG</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2009). MAK: skin absorption (H); Carcinogen category: 2 (DFG 2009). OSHA PEL: 1910.1007 <a href="#">See Appendix B</a> NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion. ion in the list of OELs mouse = 488 mg/kg bw (according to IUCLID)</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the respiratory tract. update May 2010 and replaced by 13709030</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the liver. This substance is possibly carcinogenic to humans.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 368°C Melting point: 132-133°C Solubility in water: (none)	Auto-ignition temperature: 350°C Octanol/water partition coefficient as log Pow: 3.51
<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment. It is strongly advised that this substance does not enter the environment. 0 added	
<b>NOTES</b>		
The substance is combustible but no flash point is available in literature. Curithane C126 is a trade name.		
<b>ADDITIONAL INFORMATION</b>		



**ICSC: 0481****3,3'-DICHLOROBENZIDINE**

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**IMPORTANT  
LEGAL  
NOTICE:**

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# International Chemical Safety Cards

## 3-NITROANILINE

ICSC: 0307



m-Nitroaniline  
 1-Amino-3-nitrobenzene  
 C.I. 37030  
 $C_6H_6N_2O_2$   
 Molecular mass: 138.1

ICSC # 0307  
 CAS # 99-09-2  
 RTECS # [BY6825000](#)  
 UN # 1661  
 EC # 612-012-00-9  
 December 03, 2001 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Many reactions may cause fire or explosion.	NO open flames. NO contact with combustible substances.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water. Combat fire from a sheltered position.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
<b>•INHALATION</b>	Blue lips or finger nails. Blue skin. Headache. Dizziness. Nausea. Confusion. Convulsions. Laboured breathing. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>		Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>

Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder. (Extra personal protection: P3 filter respirator for toxic particles.) Do NOT let this chemical enter the environment.	Separated from strong acids, strong oxidants, combustible and reducing substances, food and feedstuffs . Dry.	Do not transport with food and feedstuffs. Note: C T symbol R: 23/24/25-33-52/53 S: 1/2-28-36/37-45-61 UN Hazard Class: 6.1 UN Packing Group: II
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**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0307**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

## International Chemical Safety Cards

### 3-NITROANILINE

**ICSC: 0307**

I M P O R T A N T D A T A	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic fumes of nitrogen oxides. Reacts with strong acids , strong oxidants and strong reducing agents . Reacts with organic materials in presence of moisture causing fire hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the blood , resulting in formation of methaemoglobin. Medical observation is indicated. The effects may be delayed. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood , resulting in the formation of methaemoglobin. See Notes.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point (decomposes): 306°C Melting point: 114°C Density: 1.4 g/cm <sup>3</sup>	Solubility in water, g/100 ml at 25°C: 0.089 Vapour pressure, Pa at 25°C: 0.005 Octanol/water partition coefficient as log Pow: 1.37
<b>ENVIRONMENTAL DATA</b>	The substance is harmful to aquatic organisms. Do not let this chemical enter the environment.	
<b>NOTES</b>		
Depending on the degree of exposure, periodic medical examination is indicated. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. Also consult ICSC 0306 2-Nitroaniline, and ICSC 0308 4-Nitroaniline.		



Transport Emergency Card: TEC (R)-61G12b

NFPA Code: H3; F1; R2;

**ADDITIONAL INFORMATION**

**ICSC: 0307**

**3-NITROANILINE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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# International Chemical Safety Cards

**DINITRO-o-CRESOL**

ICSC: 0462



4,6-Dinitro-ortho-cresol  
 2-Methyl-4,6-dinitrophenol  
 DNOC  
 2,4-Dinitro-ortho-cresol  
 $C_7H_6N_2O_5 / CH_3C_6H_2OH(NO_2)_2$   
 Molecular mass: 198.1

ICSC # 0462  
 CAS # 534-52-1  
 RTECS # [GO9625000](#)  
 UN # 1598  
 EC # 609-020-00-X  
 April 19, 2004 Validated




TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with oxidants.	Water spray, foam, dry powder, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air. Risk of fire and explosion on contact with oxidants.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
<b>•INHALATION</b>	Sweating. Fever or elevated body temperature. Nausea. Shortness of breath. Laboured breathing. Headache. Convulsions. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Yellow stain. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: chemical protection suit including self-contained breathing apparatus.	Separated from strong oxidants, food and feed stuffs . Well closed.	Do not transport with food and feedstuffs. T+ symbol N symbol R: 26/27/28-38-41-43-44-50/53-68 S: 1/2-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: II
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<b>ICSC: 0462</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## DINITRO-*o*-CRESOL

**ICSC: 0462**

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> ODOURLESS , YELLOW CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes including nitrogen oxides. Reacts violently with strong oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.2 mg/m<sup>3</sup> as TWA; (skin); (ACGIH 2004). MAK: IIb (not established but data is available); skin absorption (H); (DFG 2004). OSHA PEL: TWA 0.2 mg/m<sup>3</sup> skin NIOSH REL: TWA 0.2 mg/m<sup>3</sup> skin NIOSH IDLH: 5 mg/m<sup>3</sup> See: <a href="#">534521</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is corrosive to the eyes and is irritating to the skin . Yellow staining of the skin. The substance may cause effects on the metabolic rate. Exposure at high levels may result in death.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>		
<b>PHYSICAL PROPERTIES</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">                     Boiling point: 312°C                      Melting point: 87.5°C                      Density: 1.58 g/cm<sup>3</sup>                      Solubility in water, g/100 ml at 20°C: 0.694                 </td> <td style="width: 50%; border: none;">                     Vapour pressure, Pa at 25°C: 0.016                      Relative vapour density (air = 1): 6.8                      Auto-ignition temperature: 340°C                      Octanol/water partition coefficient as log Pow: 2.56                 </td> </tr> </table>		Boiling point: 312°C Melting point: 87.5°C Density: 1.58 g/cm <sup>3</sup> Solubility in water, g/100 ml at 20°C: 0.694	Vapour pressure, Pa at 25°C: 0.016 Relative vapour density (air = 1): 6.8 Auto-ignition temperature: 340°C Octanol/water partition coefficient as log Pow: 2.56
Boiling point: 312°C Melting point: 87.5°C Density: 1.58 g/cm <sup>3</sup> Solubility in water, g/100 ml at 20°C: 0.694	Vapour pressure, Pa at 25°C: 0.016 Relative vapour density (air = 1): 6.8 Auto-ignition temperature: 340°C Octanol/water partition coefficient as log Pow: 2.56			
<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. <div style="float: right; text-align: right;">  </div>			
<b>NOTES</b>				

Do NOT take working clothes home. Antinonnin, Detal, Dinitrol, Elgetol, Lipan, Selinon and Effusan are trade names. Technical grade may cause skin sensitization.

Transport Emergency Card: TEC (R)-61S1598 or 61GT2-II

**ADDITIONAL INFORMATION**

**ICSC: 0462**

**DINITRO-o-CRESOL**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 4-Bromodiphenyl ether

Product Number : B65209  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>12</sub>H<sub>9</sub>BrO  
Molecular Weight : 249.1 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>4-Bromophenyl phenyl ether</b>			
101-55-3	202-952-4	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Harmful by ingestion., Skin sensitizer, Irritant

**HMIS Classification**

**Health Hazard:** 2  
**Flammability:** 1  
**Physical hazards:** 0

**NFPA Rating**

**Health Hazard:** 2  
**Fire:** 1  
**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** Harmful if swallowed.

**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point > 113.0 °C (> 235.4 °F) - closed cup

Ignition temperature no data available

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	colourless

**Safety data**

pH	no data available
Melting point	18 °C (64 °F)
Boiling point	305 °C (581 °F)
Flash point	> 113.0 °C (> 235.4 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.423 g/mL at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 4.34

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Irritation and corrosion**

no data available



### Sensitisation

May cause sensitization by skin contact.

### Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	Harmful if swallowed.

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## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 50.90 mg/l - 24 h
	LC50 - Lepomis macrochirus (Bluegill) - 9.60 mg/l - 48 h

### Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s.  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN-Number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-Bromophenyl phenyl ether)  
Marine pollutant: No

**IATA**

UN-Number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, liquid n.o.s. (4-Bromophenyl phenyl ether)

**15. REGULATORY INFORMATION**

**OSHA Hazards**

Harmful by ingestion., Skin sensitizer, Irritant

**DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

4-Bromophenyl phenyl ether	CAS-No. 101-55-3
----------------------------	---------------------

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

4-Bromophenyl phenyl ether	CAS-No. 101-55-3	Revision Date 1989-12-01
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**Pennsylvania Right To Know Components**

4-Bromophenyl phenyl ether	CAS-No. 101-55-3	Revision Date 1989-12-01
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**New Jersey Right To Know Components**

4-Bromophenyl phenyl ether	CAS-No. 101-55-3	Revision Date 1989-12-01
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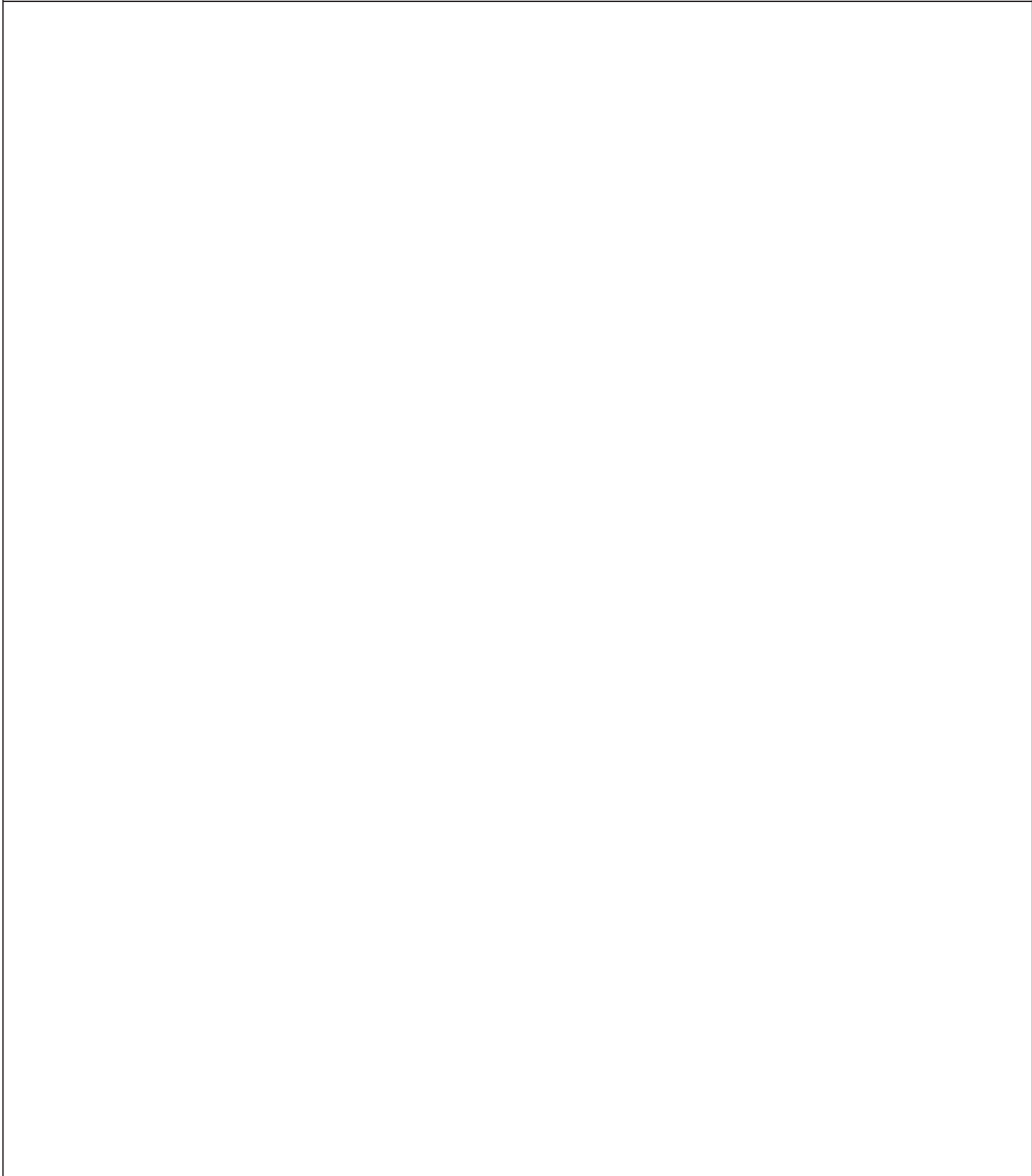
**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION**

**Further information**

Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# International Chemical Safety Cards

## 4-CHLORO-m-CRESOL

ICSC: 0131



p-Chloro-m-cresol  
 2-Chloro-5-hydroxytoluene  
 4-Chloro-3-methylphenol  
 $C_7H_7ClO / C_6H_3OHCH_3Cl$   
 Molecular mass: 142.58

ICSC # 0131  
 CAS # 59-50-7  
 RTECS # [GO7100000](#)  
 UN # 2669  
 EC # 604-014-00-3  
 June 10, 1997 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray, powder.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!	
<b>•INHALATION</b>	Cough. Sore throat. (See Ingestion).	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain. Severe deep burns.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Headache. Dizziness. Shortness of breath. Abdominal pain. Vomiting. Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting, then remove to safe place. Do NOT let this chemical enter	Separated from food and feedstuffs . Dry.	Xn symbol N symbol R: 21/22-41-43-50	

the environment. Personal protection: chemical protection suit including self-contained breathing apparatus.

S: 2-26-36/37/39-61  
UN Hazard Class: 6.1  
UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0131**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 4-CHLORO-m-CRESOL

**ICSC: 0131**

<p><b>I M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE OR SLIGHTLY PINK, HYGROSCOPIC CRYSTALS OR CRYSTALLINE POWDER.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes including hydrogen chloride and phosgene .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: IIb (not established but data is available); sensitization of skin (Sh); (DFG 2005).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 235°C Melting point: 66°C Density: 1.4 g/cm<sup>3</sup></p>	<p>Solubility in water, g/100 ml at 20°C: 0.38 Flash point: 118°C Auto-ignition temperature: 590°C Octanol/water partition coefficient as log Pow: 3.1</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish.</p>	
<p><b>NOTES</b></p>		
<p>Aptal, Baktolan, Parmetol, Raschit are trade names. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61GT2-II</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		



**ICSC: 0131****4-CHLORO-m-CRESOL**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



# International Chemical Safety Cards

## 4-CHLOROANILINE

ICSC: 0026



Chloroaminobenzene, p-  
Chloroaniline, p-  
 $C_6H_6ClN$  /  $ClC_6H_4NH_2$   
Molecular mass: 127.6

ICSC # 0026

CAS # 106-47-8

RTECS # [BX0700000](#)

UN # 2018

EC # 612-137-00-9

October 18, 2001 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Blue lips or finger nails. Blue skin. Confusion. Convulsions. Dizziness. Headache. Nausea. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Chemical protection suit. Sweep spilled substance into sealable containers; if	Separated from strong oxidants, food and feedstuffs . Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Note: E T symbol N symbol	

appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.

R: 45-23/24/25-43-50/53  
 S: 53-45-60-61  
 UN Hazard Class: 6.1  
 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0026**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## 4-CHLOROANILINE

**ICSC: 0026**

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  COLOURLESS TO YELLOW CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b>                  The substance decomposes on burning producing toxic and corrosive fumes including hydrogen chloride , nitrogen oxides . Reacts violently with oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV not established.                  MAK: skin absorption (H); sensitization of skin (Sh);                  Carcinogen category: 2 (DFG 2009).</p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b>                  A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance is irritating to the eyes . The substance may cause effects on the red blood cells , resulting in lesions of blood cells and formation of methaemoglobin. Medical observation is indicated. The effects may be delayed.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  Repeated or prolonged contact may cause skin sensitization. The substance may have effects on the spleen. Tumours have been detected in experimental animals but may not be relevant to humans (see Notes).</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 232°C Melting point: 69-72.5°C Relative density (water = 1): 1.4 Solubility in water, g/100 ml at 20°C: 0.39 Vapour pressure, Pa at 20°C: 2	Relative vapour density (air = 1): 4.4 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Flash point: 120-123°C o.c. Auto-ignition temperature: 685°C Octanol/water partition coefficient as log Pow: 1.8
<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.	
<b>NOTES</b>		
Depending on the degree of exposure, periodic medical examination is suggested. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available.		
Transport Emergency Card: TEC (R)-61S2018 Card has been partially updated in April 2010: see Occupational Exposure Limits.		



**ADDITIONAL INFORMATION**

**ICSC: 0026**

**4-CHLOROANILINE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 4-Chlorodiphenyl ether  
Product Number : 357650  
Brand : Aldrich  
Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 4-Chlorophenyl phenyl ether  
Formula : C<sub>12</sub>H<sub>9</sub>ClO  
Molecular Weight : 204.65 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
1-Chloro-4-phenoxybenzene			
7005-72-3	230-281-7	-	-

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Harmful by ingestion., Skin sensitizer, Irritant

#### HMIS Classification

Health Hazard: 2  
Flammability: 1  
Physical hazards: 0

#### NFPA Rating

Health Hazard: 3  
Fire: 1  
Reactivity Hazard: 0

#### Potential Health Effects

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation.  
Skin : May be harmful if absorbed through skin. Causes skin irritation.  
Eyes : Causes eye irritation.

Ingestion

Harmful if swallowed.

#### 4. FIRST AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

**Flammable properties**

**Flash point** 113.0 °C (235.4 °F) - closed cup

Ignition temperature no data available

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling**

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	colourless

### Safety data

pH	no data available
Melting point	no data available
Boiling point	161 - 162 °C (322 - 324 °F) at 25 hPa (19 mmHg)

**Flash point** 113.0 °C (235.4 °F) - closed cup

Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.193 g/mL at 25 °C (77 °F)

**Water solubility** no data available

**Partition coefficient: n-octanol/water** log Pow: 4.20

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents



**Hazardous decomposition products**

**Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Irritation and corrosion

no data available

### Sensitisation

**May cause sensitization by skin contact.**

### Chronic exposure

**IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**

**ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.**

**NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**

**OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.**

### Signs and Symptoms of Exposure

**To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.**

### Potential Health Effects

<b>Inhalation</b>	<b>May be harmful if inhaled. Causes respiratory tract irritation.</b>
<b>Skin</b>	<b>May be harmful if absorbed through skin. Causes skin irritation.</b>
<b>Eyes</b>	<b>Causes eye irritation.</b>
<b>Ingestion</b>	<b>Harmful if swallowed.</b>

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

**Toxicity to fish LC50 - other fish - 0.73 mg/l - 96 h**

### Further information on ecology

**An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.**

**Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**

## 13. DISPOSAL CONSIDERATIONS

**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

**DOT (US)**

UN-Number: 3082 Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (1-Chloro-4-phenoxybenzene)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION**

**OSHA Hazards**

Harmful by ingestion., Skin sensitizer, Irritant

**TSCA Status**

On TSCA Inventory

**DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

1-Chloro-4-phenoxybenzene

CAS-No.  
7005-72-3

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

1-Chloro-4-phenoxybenzene

CAS-No.  
7005-72-3

Revision Date  
1989-12-01

**Pennsylvania Right To Know Components**

1-Chloro-4-phenoxybenzene

CAS-No.  
7005-72-3

Revision Date  
1989-12-01

**New Jersey Right To Know Components**

1-Chloro-4-phenoxybenzene

CAS-No.  
7005-72-3

Revision Date  
1989-12-01

**California Prop. 65 Components**

**This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.**

**16. OTHER INFORMATION**

**Further information**

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# International Chemical Safety Cards

## p-NITROPHENOL

ICSC: 0066



4-Nitrophenol  
 4-Hydroxynitrobenzene  
 $C_6H_5NO_3$   
 Molecular mass: 139.1

ICSC # 0066  
 CAS # 100-02-7  
 RTECS # [SM2275000](#)  
 UN # 1663  
 EC # 609-015-00-2  
 November 25, 1998 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
<b>•INHALATION</b>	Blue lips or finger nails. Blue skin. Cough. Burning sensation. Confusion. Convulsions. Dizziness. Headache. Nausea. Sore throat. Unconsciousness. Weakness.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety spectacles, face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Sore throat. Vomiting. (See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Rest. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>	<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>	
Sweep spilled substance into sealable	Separated from combustible and	Do not transport with food and	

containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P2 filter respirator for harmful particles.	reducing substances, food and feedstuffs . Well closed.	feedstuffs. Xn symbol R: 20/21/22-33 S: 2-28 UN Hazard Class: 6.1 UN Packing Group: III
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**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0066**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## p-NITROPHENOL

**ICSC: 0066**

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO PALE YELLOW CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> May explode on heating. The substance decomposes on heating producing toxic fumes including nitrogen oxides . Mixtures with potassium hydroxide are explosive.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes, the skin and the respiratory tract . Yellow staining of the skin. The substance may cause effects on the blood , resulting in formation of methaemoglobin. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point (decomposes): 279°C Melting point: 111-116°C Density: 1.5 g/cm <sup>3</sup> Solubility in water, g/100 ml at 20°C: 1.24	Vapour pressure, Pa at 20°C: 0.0032 Flash point: 169°C Auto-ignition temperature: 490°C Octanol/water partition coefficient as log Pow: 1.91
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<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms.	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. Card has been partly updated in April 2005. See section Physical properties.

Transport Emergency Card: TEC (R)-61S1663

NFPA Code: H3; F1; R2;

**ADDITIONAL INFORMATION**

**ICSC: 0066**

**p-NITROPHENOL**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 4-Nitroquinoline *N*-oxide

Product Number : N8141

Brand : Aldrich

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

Emergency Phone # (For : (314) 776-6555  
both supplier and  
manufacturer)

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

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**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

No known OSHA hazards

**GHS Classification**

Carcinogenicity (Category 1B)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H350

May cause cancer.

Precautionary statement(s)

P201

Obtain special instructions before use.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

**HMIS Classification****Health hazard:** 0**Flammability:** 0**Physical hazards:** 0**NFPA Rating****Health hazard:** 0**Fire:** 0**Reactivity Hazard:** 0**Potential Health Effects****Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Ingestion**

May be harmful if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 4-Nitroquinoline 1-oxide

Formula : C<sub>9</sub>H<sub>6</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight : 190.16 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>4-Nitroquinoline N-oxide</b>			
56-57-5	200-281-1	-	-

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### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Light sensitive. hygroscopic

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	crystalline
Colour	yellow

### Safety data

pH	no data available
Melting point/freezing point	Melting point/range: 154 - 156 °C (309 - 313 °F) - lit.
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available

Evaporation rate no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

LD50 Subcutaneous - rat - 12.6 mg/kg

Remarks: Lungs, Thorax, or Respiration: Acute pulmonary edema. Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease.

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

Possible human carcinogen

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

no data available

**Additional Information**

RTECS: VC2100000

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**12. ECOLOGICAL INFORMATION**

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

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**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION****OSHA Hazards**

No known OSHA hazards

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
4-Nitroquinoline N-oxide	56-57-5	1989-08-11

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
4-Nitroquinoline N-oxide	56-57-5	1989-08-11

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION****Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# International Chemical Safety Cards

## ACENAPHTHENE

ICSC: 1674



1,2-Dihydroacenaphthylene  
 1,8-Ethylenenaphthalene  
 $C_{12}H_{10}$   
 Molecular mass: 154.2

ICSC # 1674  
 CAS # 83-32-9  
 RTECS # [AB1000000](#)  
 UN # 3077  
 October 12, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray. Dry powder. Foam. Carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>	See NOTES.	PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety goggles	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: P2 filter respirator for harmful particles. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants . Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access.	UN Hazard Class: 9 UN Packing Group: III Signal: Warning Enviro Very toxic to aquatic life with long lasting effects

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1674**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**ACENAPHTHENE**

**ICSC: 1674**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE TO BEIGE CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic gases including carbon monoxide. Reacts with strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed .</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> See Notes.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 279°C Melting point: 95°C Density: 1.2 g/cm<sup>3</sup> Solubility in water, g/100 ml at 25°C: 0.0004</p>	<p>Vapour pressure, Pa at 25°C: 0.3 Relative vapour density (air = 1): 5.3 Flash point: 135°C o.c. Auto-ignition temperature: &gt;450 °C Octanol/water partition coefficient as log Pow: 3.9 - 4.5</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment. It is strongly advised that this substance does not enter the environment.</p>	
<p><b>NOTES</b></p>		
<p>Acenaphthene occurs as a pure substance and also as a component of polyaromatic hydrocarbon (PAH) mixtures. Human population studies have associated PAH's exposure with cancer and cardiovascular diseases. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-90GM7-III</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p> </p>		
<p><b>ICSC: 1674</b></p>		<p><b>ACENAPHTHENE</b></p>



(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Acenaphthylene

Product Number : 416703  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

Carcinogen

#### GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### HMIS Classification

Health hazard: 2  
Chronic Health Hazard: \*  
Flammability: 1  
Physical hazards: 0

#### NFPA Rating

Health hazard: 2  
Fire: 1  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** : May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** : May cause eye irritation.  
**Ingestion** : May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>12</sub>H<sub>8</sub>  
Molecular Weight : 152.19 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Acenaphthylene</b>			
208-96-8	205-917-1	-	-

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#### 4. FIRST AID MEASURES

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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#### 5. FIRE-FIGHTING MEASURES

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

---

#### 6. ACCIDENTAL RELEASE MEASURES

##### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

##### **Environmental precautions**

Do not let product enter drains.

##### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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#### 7. HANDLING AND STORAGE

##### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

##### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

##### **Personal protective equipment**

###### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form                      solid

**Safety data**

pH                              no data available  
Melting point              78 - 82 °C (172 - 180 °F) - lit.  
Boiling point                280 °C (536 °F) - lit.  
Flash point                  122.0 °C (251.6 °F) - closed cup  
Ignition temperature      no data available  
Lower explosion limit      no data available  
Upper explosion limit      no data available  
Density                        0.899 g/mL at 25 °C (77 °F)  
Water solubility              no data available

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**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

no data available

**Materials to avoid**

Oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - mouse - 1,760 mg/kg

Remarks: Autonomic Nervous System:Other (direct) parasympathomimetic. Respiratory disorder Blood: Hemorrhage.

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available



**Germ cell mutagenicity**

no data available

**Carcinogenicity**

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: AB1254000

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**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

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**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Acenaphthylene)  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION****OSHA Hazards**

Carcinogen

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Acenaphthylene	CAS-No. 208-96-8
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**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Acenaphthylene	CAS-No. 208-96-8	Revision Date
----------------	---------------------	---------------

**New Jersey Right To Know Components**

Acenaphthylene	CAS-No. 208-96-8	Revision Date
----------------	---------------------	---------------

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION****Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

# International Chemical Safety Cards

**ANILINE**

ICSC: 0011



Benzeneamine  
 Aminobenzene  
 Phenylamine  
 $C_6H_7N / C_6H_5NH_2$   
 Molecular mass: 93.1

ICSC # 0011

CAS # 62-53-3

RTECS # [BW6650000](#)

UN # 1547

EC # 612-008-00-7

March 15, 2001 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with oxidants.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 70°C explosive vapour/air mixtures may be formed.	Above 70°C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
<b>•INHALATION</b>	Blue lips or finger nails. Blue skin. Headache. Dizziness. Laboured breathing. Convulsions. Increased heartbeat. Vomiting. Weakness. Unconsciousness. Symptoms may be delayed (see Notes).	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention. See Notes.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>


Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.	Separated from strong oxidants, strong acids, food and feedstuffs . Well closed.	Do not transport with food and feedstuffs. T symbol N symbol R: 23/24/25-40-41-43-48/23/24/25-68-50 S: 1/2-26-27-36/37/39-45-46-63-61 UN Hazard Class: 6.1 UN Packing Group: II
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<b>ICSC: 0011</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## ANILINE

**ICSC: 0011**

<b>I M P O R T A N T A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS OILY LIQUID , WITH CHARACTERISTIC ODOUR. TURNS BROWN ON EXPOSURE TO AIR OR LIGHT.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating at temperatures above 190°C, producing toxic and corrosive fumes ( ammonia and nitrogen oxides ) and flammable vapours. The substance is a weak base. Reacts vigorously with strong oxidants causing fire and explosion hazard. Reacts violently with strong acids . Attacks copper and its alloys.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                      TLV: 2 ppm; (skin); A3; BEI issued; (ACGIH 2004).                      MAK: 2 ppm, 7.7 mg/m<sup>3</sup>; skin absorption (H); sensitization of skin (Sh);                      Peak limitation category: II(2); Carcinogen category: 4; Pregnancy risk group: C; (DFG 2006).                      OSHA PEL<sup>±</sup>: TWA 5 ppm (19 mg/m<sup>3</sup>) skin                      NIOSH REL: Ca <a href="#">See Appendix A</a>                      NIOSH IDLH: Ca 100 ppm See: <a href="#">62533</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion , also as a vapour!</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C ; on spraying or dispersing, however, much faster .</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the skin . The substance may cause effects on the blood , resulting in the formation of methaemoglobin. Exposure at high levels may result in death. Medical observation is indicated. The effects may be delayed. See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization. The substance may have effects on the blood , resulting in formation of methaemoglobin.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 184°C Melting point: -6°C Relative density (water = 1): 1.02 Solubility in water, g/100 ml at 20°C: 3.4 Vapour pressure, Pa at 20°C: 40 Relative vapour density (air = 1): 3.2	Flash point: 70°C c.c. Auto-ignition temperature: 615°C Explosive limits, vol% in air: 1.2-11 Octanol/water partition coefficient as log Pow: 0.94

<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms.	
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**NOTES**

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is indicated. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. The odour warning when the exposure limit value is exceeded is insufficient. Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response. Card has been partly updated in October 2006. See Occupational Exposure Limits.

Transport Emergency Card: TEC (R)-61S1547

NFPA Code: H3; F2; R0;

**ADDITIONAL INFORMATION**

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<b>ICSC: 0011</b>	(C) IPCS, CEC, 1994	<b>ANILINE</b>
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# International Chemical Safety Cards

**ANTHRACENE**

ICSC: 0825



Anthracin  
Paranaphthalene  
 $C_{14}H_{10} / (C_6H_4CH)_2$   
Molecular mass: 178.2

ICSC # 0825  
CAS # 120-12-7  
RTECS # [CA9350000](#)  
March 24, 1999 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST!</b>	
<b>•INHALATION</b>	Cough. Sore throat.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety spectacles, face shield, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain.	Do not eat, drink, or smoke during work.	Rinse mouth. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for harmful particles).	Separated from strong oxidants. Well closed.	R: S:

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0825**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**ANTHRACENE**

ICSC: 0825

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> WHITE CRYSTALS OR FLAKES.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by
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**PHYSICAL DANGERS:**

Dust explosion possible if in powder or granular form, mixed with air.

**CHEMICAL DANGERS:**

The substance decomposes on heating, under influence of strong oxidants producing acrid, toxic fume, causing fire and explosion hazard.

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV not established.

inhalation.

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

**EFFECTS OF SHORT-TERM EXPOSURE:**

The substance slightly irritates the skin and the respiratory tract.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

Repeated or prolonged contact with skin may cause dermatitis under the influence of UV light.

**PHYSICAL PROPERTIES**

Boiling point: 342°C  
Melting point: 218°C  
Density: 1.25-1.28 g/cm<sup>3</sup>  
Solubility in water, g/100 ml at 20 °C: 0.00013  
Vapour pressure, Pa at 25°C: 0.08

Relative vapour density (air = 1): 6.15  
Flash point: 121°C  
Auto-ignition temperature: 538°C  
Explosive limits, vol% in air: 0.6-?  
Octanol/water partition coefficient as log Pow: 4.5 (calculated)

**ENVIRONMENTAL DATA**

The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.



**NOTES**

Green oil, Tetra-olive N2G are trade names.

NFPA Code: H0; F1; R;

**ADDITIONAL INFORMATION**

**ICSC: 0825**

**ANTHRACENE**

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

## BENZ(a)ANTHRACENE

ICSC: 0385



1,2-Benzoanthracene  
Benzo(a)anthracene  
2,3-Benzphenanthrene  
Naphthanthracene  
 $C_{18}H_{12}$   
Molecular mass: 228.3

ICSC # 0385  
CAS # 56-55-3  
RTECS # [CV9275000](#)  
EC # 601-033-00-9  
October 23, 1995 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.		Water spray, powder. In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety goggles face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: complete protective clothing including self-contained breathing apparatus.	Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0385

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

ICSC: 0385

# BENZ(a)ANTHRACENE

I M P O R T A N T D A T A	<b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO YELLOW BROWN FLUORESCENT FLAKES OR POWDER.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
	<b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.	<b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.
	<b>CHEMICAL DANGERS:</b>	<b>EFFECTS OF SHORT-TERM EXPOSURE:</b>
	<b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: A2 (suspected human carcinogen); (ACGIH 2004). MAK: Carcinogen category: 2 (as pyrolysis product of organic materials) (DFG 2005).	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> This substance is probably carcinogenic to humans.

<b>PHYSICAL PROPERTIES</b>	Sublimation point: 435°C Melting point: 162°C Relative density (water = 1): 1.274 Solubility in water: none	Vapour pressure, Pa at 20°C: 292 Octanol/water partition coefficient as log Pow: 5.61
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<b>ENVIRONMENTAL DATA</b>	Bioaccumulation of this chemical may occur in seafood.	
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## NOTES

This substance is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, it may be encountered as a laboratory chemical in its pure form. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken. Do NOT take working clothes home. Tetraphene is a common name. Card has been partly updated in October 2005 and August 2006: see sections Occupational Exposure Limits, EU classification.

## ADDITIONAL INFORMATION

ICSC: 0385

BENZ(a)ANTHRACENE

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

**BENZO(a)PYRENE**

ICSC: 0104



Benz(a)pyrene  
3,4-Benzopyrene  
Benzo(d,e,f)chrysene  
 $C_{20}H_{12}$   
Molecular mass: 252.3

ICSC # 0104  
CAS # 50-32-8  
RTECS # [DJ3675000](#)  
EC # 601-032-00-3  
October 17, 2005 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
•INHALATION		Local exhaust or breathing protection.	Fresh air, rest.
•SKIN	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES		Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION		Do not eat, drink, or smoke during work.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Personal protection: complete protective clothing including self-contained breathing apparatus. Do NOT let this chemical enter the environment. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants.	T symbol N symbol R: 45-46-60-61-43-50/53 S: 53-45-60-61

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0104**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# BENZO(a)PYRENE

ICSC: 0104

I M P O R T A N T A D V I S I O N	<p><b>PHYSICAL STATE; APPEARANCE:</b> PALE-YELLOW CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong oxidants causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: Exposure by all routes should be carefully controlled to levels as low as possible A2 (suspected human carcinogen); (ACGIH 2005). MAK: Carcinogen category: 2; Germ cell mutagen group: 2; (DFG 2005).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> This substance is carcinogenic to humans. May cause heritable genetic damage to human germ cells. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 496°C Melting point: 178.1°C Density: 1.4 g/cm <sup>3</sup>	Solubility in water: none (<0.1 g/100 ml) Vapour pressure : negligible Octanol/water partition coefficient as log Pow: 6.04
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<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish, in plants and in molluscs. The substance may cause long-term effects in the aquatic environment.	
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## NOTES

Do NOT take working clothes home. Benzo(a)pyrene is present as a component of polycyclic aromatic hydrocarbons (PAHs) in the environment, usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco.

## ADDITIONAL INFORMATION

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ICSC: 0104

BENZO(a)PYRENE

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

**BENZO(b)FLUORANTHENE**

ICSC: 0720



Benz(e)acephenanthrylene  
2,3-Benzofluoranthene  
Benzo(e)fluoranthene  
3,4-Benzofluoranthene  
 $C_{20}H_{12}$   
Molecular mass: 252.3

ICSC # 0720  
CAS # 205-99-2  
RTECS # [CU1400000](#)  
EC # 601-034-00-4  
March 25, 1999 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>			In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0720**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**BENZO(b)FLUORANTHENE**

ICSC: 0720

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALS	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation
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**PHYSICAL DANGERS:**

**CHEMICAL DANGERS:**

Upon heating, toxic fumes are formed.

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV: A2 (suspected human carcinogen); (ACGIH 2004).

MAK:

Carcinogen category: 2;

(DFG 2004).

of its aerosol and through the skin.

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

**EFFECTS OF SHORT-TERM EXPOSURE:**

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

This substance is possibly carcinogenic to humans. May cause genetic damage in humans.

**PHYSICAL PROPERTIES**

Boiling point: 481°C  
Melting point: 168°C  
Solubility in water:  
none

Octanol/water partition coefficient as log Pow: 6.12

**ENVIRONMENTAL DATA**

This substance may be hazardous to the environment; special attention should be given to air quality and water quality.



**NOTES**

Benzo(b)fluoranthene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco. ACGIH recommends environment containing benzo(b)fluoranthene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m<sup>3</sup>. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

**ADDITIONAL INFORMATION**

**ICSC: 0720**

**BENZO(b)FLUORANTHENE**

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

**BENZO(g,h,i)FLUORANTHENE**

ICSC: 0527



2,13-Benzofluoranthene  
Benzo(mno)fluoranthene  
 $C_{18}H_{10}$   
Molecular mass: 226.3

ICSC # 0527  
CAS # 203-12-3  
RTECS # [DF6140000](#)  
March 25, 1998 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray, powder.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	
• <b>SKIN</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention. Wear protective gloves when administering first aid.
• <b>EYES</b>		Safety goggles, face shield, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Well closed.	R: S:

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0527**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**BENZO(g,h,i)FLUORANTHENE**

ICSC: 0527

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and through the skin.
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<b>P</b>	<b>PHYSICAL DANGERS:</b>	

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**INHALATION RISK:**

**CHEMICAL DANGERS:**

The substance decomposes on heating producing toxic fumes.

**EFFECTS OF SHORT-TERM EXPOSURE:**

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV not established.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

See Notes.

**PHYSICAL PROPERTIES**

Melting point: 149°C  
Solubility in water: none  
Vapour pressure, Pa at 20°C: <10

Relative vapour density (air = 1): 7.8  
Relative density of the vapour/air-mixture at 20°C (air = 1): 1.0  
Octanol/water partition coefficient as log Pow: 7.23

**ENVIRONMENTAL DATA**

This substance may be hazardous to the environment; special attention should be given to the total environment. In the food chain important to humans, bioaccumulation takes place, specifically in oils and fats.



**NOTES**

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken. Also consult ICSC #0720 and 0721.

**ADDITIONAL INFORMATION**

**ICSC: 0527**

**BENZO(g,h,i)FLUORANTHENE**

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# International Chemical Safety Cards

**BENZO(k)FLUORANTHENE**

ICSC: 0721



Dibenzo(b,jk)fluorene  
8,9-Benzofluoranthene  
11,12-Benzofluoranthene  
 $C_{20}H_{12}$   
Molecular mass: 252.3

ICSC # 0721  
CAS # 207-08-9  
RTECS # [DF6350000](#)  
EC # 601-036-00-5  
March 25, 1999 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>			In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0721**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**BENZO(k)FLUORANTHENE**

ICSC: 0721

I	<b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and through the skin.
M		

P  
O  
R  
T  
A  
N  
T  
D  
A  
T  
A

**PHYSICAL DANGERS:**

**CHEMICAL DANGERS:**

Upon heating, toxic fumes are formed.

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV not established.

MAK:

Carcinogen category: 2;  
(DFG 2004).

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

**EFFECTS OF SHORT-TERM EXPOSURE:**

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

This substance is possibly carcinogenic to humans.

**PHYSICAL PROPERTIES**

Boiling point: 480°C  
Melting point: 217°C  
Solubility in water:  
none

Octanol/water partition coefficient as log Pow: 6.84

**ENVIRONMENTAL DATA**

This substance may be hazardous to the environment; special attention should be given to air quality and water quality. Bioaccumulation of this chemical may occur in crustacea and in fish.



**NOTES**

Benzo(k)fluoranthene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco. ACGIH recommends environment containing benzo(k)fluoranthene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m<sup>3</sup>. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

**ADDITIONAL INFORMATION**

**ICSC: 0721**

**BENZO(k)FLUORANTHENE**

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# International Chemical Safety Cards

## BENZYL ALCOHOL

ICSC: 0833



Benzenemethanol  
 Phenyl carbinol  
 alpha-Hydroxytoluene  
 Benzoyl alcohol  
 Phenyl methanol  
 $C_7H_8O / C_6H_5CH_2OH$   
 Molecular mass: 108.1

ICSC # 0833  
 CAS # 100-51-6  
 RTECS # [DN3150000](#)  
 EC # 603-057-00-5  
 April 13, 2000 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, AFFF, foam, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Cough. Dizziness. Headache.	Ventilation.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. First rinse with plenty of water, then remove contaminated clothes and rinse again.
<b>•EYES</b>	Redness.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Diarrhoea. Drowsiness. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Personal protection: filter respirator for organic gases and vapours.	Separated from strong oxidants.	Xn symbol R: 20/22 S: 2-26	



**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0833**

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# International Chemical Safety Cards

**BENZYL ALCOHOL**

**ICSC: 0833**

<p><b>I M P O R T A N T A I N I N F O R M A T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong oxidants. Attacks some forms of plastic. On combustion, forms toxic gases including carbon monoxide.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: Iib (not established but data is available); (DFG 2004).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The aerosol irritates the eyes and the skin. The substance may cause effects on the nervous system .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 205°C Melting point: -15°C Relative density (water = 1): 1.04 Solubility in water, g/100 ml: 4 Vapour pressure, Pa at 20°C: 13.2 Relative vapour density (air = 1): 3.7</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.0 Flash point: 93°C c.c. Auto-ignition temperature: 436°C Explosive limits, vol% in air: 1.3-13 Octanol/water partition coefficient as log Pow: 1.1</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms.</p>	
<p><b>NOTES</b></p>		
<p>Card has been partly updated in October 2005. See section Occupational Exposure Limits.</p>		
<p>NFPA Code: H 2; F 1; R 0;</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p> </p>		
<p><b>ICSC: 0833</b></p>		<p><b>BENZYL ALCOHOL</b></p>



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LEGAL  
NOTICE:**

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# International Chemical Safety Cards

## BUTYL BENZYL PHTHALATE

ICSC: 0834



Benzyl butyl phthalate  
 1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester  
 BBP  
 $1,2C_6H_4(COOCH_2C_6H_5)(COOC_4H_9) / C_{19}H_{20}O_4$   
 Molecular mass: 312.4

ICSC # 0834  
 CAS # 85-68-7  
 RTECS # [TH9990000](#)  
 UN # 3082  
 EC # 607-430-00-3  
 October 20, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Alcohol-resistant foam. Powder, carbon dioxide. Water spray .
<b>EXPLOSION</b>			
<b>EXPOSURE</b>	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	PREVENT GENERATION OF MISTS! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
<b>•INHALATION</b>		Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
<b>•SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>		Safety spectacles .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.	Store in an area without drain or sewer access. Separated from strong oxidants.	Marine pollutant. T symbol N symbol R: 61-62-50/53 S: 45-53-60-61 UN Hazard Class: 9 UN Packing Group: III

### SEE IMPORTANT INFORMATION ON BACK

ICSC: 0834

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# International Chemical Safety Cards

## BUTYL BENZYL PHTHALATE

ICSC: 0834

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS OILY LIQUID</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes . Reacts with oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 370°C Melting point: -35°C Relative density (water = 1): 1.1 Solubility in water: 0.71 mg/l (very poor) Vapour pressure, Pa at 20°C: negligible</p>	<p>Relative vapour density (air = 1): 10.8 Flash point: 198°C Auto-ignition temperature: 425°C Octanol/water partition coefficient as log Pow: 4.77</p>
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<b>ENVIRONMENTAL DATA</b>	<p>The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.</p>	
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### NOTES

Saniticizer 160, Sicol 160, Unimoll BB and Palatinol BB are trade names.

Transport Emergency Card: TEC (R)-90GM6-III

NFPA Code: H1; F1; R0;

### ADDITIONAL INFORMATION

ICSC: 0834

BUTYL BENZYL PHTHALATE

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# Material Safety Data Sheet

Catalog Number: 204180  
Revision date: 25-Apr-2006

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 204180

Product name: bis(2-CHLOROETHOXY)METHANE

**Supplier:**

MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
bis(2-CHLOROETHOXY)METHANE	111-91-1	90 - 100%	None	None

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Toxic if swallowed. May be toxic by inhalation or skin contact.

**Category of Danger:**

Toxic

**Principle routes of exposure:** Skin

**Inhalation:** Harmful by inhalation.

**Ingestion:** Toxic if swallowed.

**Skin contact:** Harmful in contact with skin.

**Eye contact:** Risk of serious damage to eyes

**Statements of hazard** Toxic if swallowed

**Statement of Spill or Leak - ANSI Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

**Statement of First Aid** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

**Precautions - ANSI Label** Do not taste or swallow. Wash thoroughly after handling. Avoid breathing vapors. Avoid contact with skin, eyes and clothing

## 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

**Skin contact:** Rinse immediately with plenty of water and seek medical advice

Catalog Number: 204180

Product name: bis(2-  
CHLOROETHOXY)METHANE

Page 1 of 6

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if swallowed, seek medical advice immediately and show this container or label.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Protection of first-aiders:** No information available

**Medical conditions aggravated by exposure:** None known

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

**Specific hazards:**

Burning produces irritant fumes.

**Unusual hazards:**

None known

**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Specific methods:**

Water mist may be used to cool closed containers.

**Flash point:**

Not determined

**Autoignition temperature:**

Not determined

**NFPA rating:**

NFPA Health:	2
NFPA Flammability:	0
NFPA Reactivity:	0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Use personal protective equipment.

**Environmental precautions:**

Prevent product from entering drains.

**Methods for cleaning up:**

Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

**Storage:**

ROOM TEMPERATURE

**Handling:**

Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:**

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

**Technical measures/storage conditions:**

Keep containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible products:**

Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Eye protection:** Safety glasses with side-shields

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.





## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor</b>	Colorless
<b>Physical state:</b>	Liquid
<b>Formula:</b>	C <sub>5</sub> H <sub>10</sub> Cl <sub>2</sub> O <sub>2</sub>
<b>Molecular weight:</b>	173.05
<b>Melting point/range:</b>	-33 °C
<b>Boiling point/range:</b>	218.1 °C
<b>Density:</b>	1.2339 at 20 °C (water = 1)
<b>Vapor pressure:</b>	0.1 mm Hg at 20 °C
<b>Evaporation rate:</b>	No data available
<b>Vapor density:</b>	6.0 (air = 1)
<b>Solubility (in water):</b>	Slightly soluble
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Polymerization:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Chloride/Hydrochloric acid
<b>Materials to avoid:</b>	Strong oxidising agents
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Acute toxicity

##### Components

bis(2-CHLOROETHOXY)METHANE

##### RTECS Number:

PA3675000

##### Selected LD50s and LC50s

Oral LD50 Rat : 65 mg/kg

<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Primary irritation:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	No data is available on the product itself.
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	No data is available on the product itself.

## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	No data available
<b>Bioaccumulation:</b>	No data available
<b>Ecotoxicity effects:</b>	No data available
<b>Aquatic toxicity:</b>	May cause long-term adverse effects in the aquatic environment.

##### Components

bis(2-CHLOROETHOXY)METHANE

**U.S. DOT - Appendix B -  
Marine Pollutan**

Not Listed

**U.S. DOT - Appendix B -  
Severe Marine Pollutants**

Not Listed

**United Kingdom - The Red  
List:**

Not Listed

<b>Components</b>	<b>Germany VCI (WGK)</b>	<b>World Health Organization (WHO) - Drinking Water</b>	<b>Ecotoxicity - Fish Species Data</b>
bis(2-CHLOROETHOXY)METHANE	Not Listed	Not Listed	Not Listed
<b>Components</b>	<b>Ecotoxicity - Freshwater Algae Data</b>	<b>Ecotoxicity - Microtox Data</b>	<b>Ecotoxicity - Water Flea Data</b>
bis(2-CHLOROETHOXY)METHANE	Not Listed	Not Listed	Not Listed
<b>Components</b>	<b>EPA - ATSDR Priority List</b>	<b>EPA - HPV Challenge Program Chemical List</b>	<b>California - Priority Toxic Pollutants</b>
bis(2-CHLOROETHOXY)METHANE	Not Listed	indicator 0; Fully sponsored	Not Listed
<b>Components</b>	<b>California - Priority Toxic Pollutants</b>	<b>California - Priority Toxic Pollutants</b>	
bis(2-CHLOROETHOXY)METHANE	Not Listed	Not Listed	

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:**

Do not re-use empty containers

### 14. TRANSPORT INFORMATION

**UN/Id No:** 2810

**DOT:**

**Proper shipping name:** Toxic liquid, organic, n.o.s.  
**IATA Hazard Label(s):** Toxic  
**Hazard Class:** 6.1 - Toxic substances - oral  
**Packing group:** III

**Emergency Response Guide Number (ERG):** 153

**Components** **U.S. DOT - Appendix A Table 1 - Reportable Quantities**  
 bis(2-CHLOROETHOXY)METHANE RQ = 1000 pounds (454 kg); also listed as Dichloromethoxy ethane; also listed as Ethane, 1,1"-[methylenebis(oxy)]bis(2-chloro)-

**TDG (Canada):**

**WHMIS hazard class:** D1b toxic materials

**IMDG/IMO**

**Proper shipping name:** Toxic liquid, organic, n.o.s.

**IMDG - Hazard Classifications** Not Applicable

<b>Components</b>	<b>U.S. DOT - Appendix B - Marine Pollutants</b>	<b>U.S. DOT - Appendix B - Severe Marine Pollutants</b>
bis(2-CHLOROETHOXY)METHANE	Not Listed	Not Listed

**IMO-labels:**

**15. REGULATORY INFORMATION**

**International Inventories**

**Components**

bis(2-CHLOROETHOXY)METHANE

**Inventory - United States TSCA - Sect. 8(b)**

Present

**Canada DSL Inventory List -**

Not Listed

**Canada NDSL Inventory List -**

C5H10Cl2O2

**Inventory - China:**

Present

**EU EINECS List -**

203-920-2; C5H10Cl2O2

**Inventory - Japan:**

2-497

**U.S. regulations:**

**Components**

bis(2-CHLOROETHOXY)METHANE

**California Proposition 65**

- Not Listed

**Massachusetts Right to Know List:**

[present]

**New Jersey Right to Know List:**

sn 2971

**Pennsylvania Right to Know List:**

environmental hazard

**Components**

bis(2-CHLOROETHOXY)METHANE

**Florida substance List:**

[present]

**Rhode Island Right to Know List:**

Not Listed

**Illinois - Toxic Air Contaminants**

Not Listed

**Connecticut - Hazardous Air Pollutants**

Not Listed

**Components**

bis(2-CHLOROETHOXY)METHANE

**SARA 313 Emission reporting/Toxic Release of Chemicals**

form R reporting required for 1.0% de minimis concentration

**CERCLA/SARA - Section 302 Extremely Hazardous Substances**

Not Listed

**NTP:**

None

**IARC:**

None

**SARA 313 Notification:**

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

**State Notification:**

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

**16. OTHER INFORMATION**

**Prepared by:** Health & Safety

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**End of Safety Data Sheet**

# International Chemical Safety Cards

## BIS(2-CHLOROETHYL) ETHER

ICSC: 0417



Dichloroethyl ether  
 2,2'-Dichloroethyl ether  
 1,1'-Oxybis(2-chloro)ethane  
 sym-Dichloroethyl ether  
 Diethylene glycol dichloride  
 $C_4H_8Cl_2O / (ClCH_2CH_2)_2O$   
 Molecular mass: 143.02

ICSC # 0417  
 CAS # 111-44-4  
 RTECS # [KN0875000](#)  
 UN # 1916  
 EC # 603-029-00-2  
 April 10, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>	Above 55°C explosive vapour/air mixtures may be formed.	Above 55°C use a closed system, ventilation.	In case of fire: cool cylinder by spraying with water but avoid contact of the substance with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Cough. Sore throat. Nausea. Vomiting. Burning sensation. Laboured breathing. Symptoms may be delayed (see Notes).	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Nausea. Vomiting. Burning sensation.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING		
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Personal protection: chemical protection suit.	Fireproof. Separated from food and feedstuffs . See Chemical Dangers. Keep in the dark. Well closed.	Do not transport with food and feedstuffs. Marine pollutant. T+ symbol R: 10-26/27/28-40 S: 1/2-7/9-27-28-36/37-45 UN Hazard Class: 6.1 UN Subsidiary Risks: 3 UN Packing Group: II		
<b>SEE IMPORTANT INFORMATION ON BACK</b>				
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>ICSC: 0417</b></td> <td>                             Prepared in the context of cooperation between the International Programme on Chemical Safety &amp; the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.                         </td> </tr> </table>			<b>ICSC: 0417</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
<b>ICSC: 0417</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.			

# International Chemical Safety Cards

## BIS(2-CHLOROETHYL) ETHER

**ICSC: 0417**

<p><b>I M P O R T A N T I N F O R M A T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> CLEAR, COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> The substance can form explosive peroxides on exposure to air and light. The substance decomposes on burning or on contact with water, producing toxic fumes including hydrogen chloride. Reacts with strong oxidants. Reacts violently with chlorosulfonic acid and oleum.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 ppm as TWA, 10 ppm as STEL; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2004). MAK: 10 ppm, 59 mg/m<sup>3</sup>; Peak limitation category: I(1); skin absorption (H); (DFG 2004). OSHA PEL<sup>±</sup>: TWA 15 ppm (90 mg/m<sup>3</sup>) skin NIOSH REL: Ca TWA 5 ppm (30 mg/m<sup>3</sup>) ST 10 ppm (60 mg/m<sup>3</sup>) skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca 100 ppm See: <a href="#">111444</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes and the respiratory tract. Inhalation of vapour may cause lung oedema (see Notes). Exposure far above the OEL may result in death. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 178°C Melting point: -50°C Relative density (water = 1): 1.22 Vapour pressure, kPa at 25°C: 0.206 Relative vapour density (air = 1): 4.9</p>	<p>Flash point: 55°C c.c. Auto-ignition temperature: 369°C Explosive limits, vol% in air: 2.7-? Octanol/water partition coefficient as log Pow: 1.29</p>



<b>ENVIRONMENTAL DATA</b>	
<b>NOTES</b>	
<p>The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered. An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert. Check for peroxides prior to distillation; eliminate if found. DCEE, Chlorex are trade names. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61GTF1-II</p> <p style="text-align: right;">NFPA Code: H3; F2; R1;</p>	
<b>ADDITIONAL INFORMATION</b>	
<b>ICSC: 0417</b>	<b>BIS(2-CHLOROETHYL) ETHER</b>
(C) IPCS, CEC, 1994	
<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>

# International Chemical Safety Cards

## DICHLOROISOPROPYL ETHER

ICSC: 0435



Bis(2-chloro-1-methylethyl) ether  
 2,2'-Oxybis(1-chloropropane)  
 Dichlorodiisopropyl ether  
 $C_6H_{12}Cl_2O$  /  $(ClCH_2C(CH_3)H)_2O$   
 Molecular mass: 171.1

ICSC # 0435  
 CAS # 108-60-1  
 RTECS # [KN1750000](#)  
 UN # 2490

November 26, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Foam, alcohol-resistant foam, dry powder, carbon dioxide or water spray .
<b>EXPLOSION</b>	Above 85°C explosive vapour/air mixtures may be formed.	Above 85°C use a closed system, ventilation.	
<b>EXPOSURE</b>			
• <b>INHALATION</b>		Local exhaust.	Fresh air, rest.
• <b>SKIN</b>	Dry skin.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work. Wash hands before eating.	Give plenty of water to drink.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Ventilation. Remove all ignition sources. Collect leaking liquid in sealable plastic containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. (Extra personal protection: filter respirator for organic gases and vapours.)	Cool. Keep in the dark. Separated from incompatible materials . See Chemical Dangers.	UN Hazard Class: 6.1 UN Packing Group: II	

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0435**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## DICHLOROISOPROPYL ETHER

**ICSC: 0435**

<p><b>I M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO BROWN , OILY LIQUID</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance can form explosive peroxides standing in contact with air. Reacts with halogens , strong acids and strong oxidants . The substance decomposes on burning producing toxic fumes .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate at which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> See Notes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The liquid defats the skin.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 187°C Melting point: -97 to -102°C Relative density (water = 1): 1.1 Solubility in water, g/100 ml at 20°C: 0.2 , poor</p>	<p>Vapour pressure, Pa at 20°C: 75 Relative vapour density (air = 1): 6 Flash point: 85°C o.c. Octanol/water partition coefficient as log Pow: 2.14 to 2.58</p>
<p><b>ENVIRONMENTAL DATA</b></p>		
<p><b>NOTES</b></p>		
<p>Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken. Environmental effects from the substance have not been investigated adequately.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61GT1-II NFPA Code: H3; F2; R0.</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p><b>ICSC: 0435</b></p>	<p><b>DICHLOROISOPROPYL ETHER</b></p>	

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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# International Chemical Safety Cards

## DI(2-ETHYLHEXYL) PHTHALATE

ICSC: 0271



Dioctylphthalate  
 DOP; DEHP  
 Bis-(2-ethylhexyl)phthalate  
 $C_{24}H_{38}O_4 / C_6H_4(COOC_8H_{17})_2$   
 Molecular mass: 390.6

ICSC # 0271  
 CAS # 117-81-7  
 RTECS # [TI0350000](#)  
 EC # 607-317-00-9  
 October 18, 2001 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	
• <b>INHALATION</b>	Cough. Sore throat.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal cramps. Diarrhoea. Nausea.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give plenty of water to drink.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Chemical protection suit.	Separated from strong oxidants, acids, alkalis, and nitrates. Cool. Dry. Well closed.	T symbol R: 60-61 S: 53-45

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0271

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## DI(2-ETHYLHEXYL) PHTHALATE

ICSC: 0271

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO LIGHT COLOURED VISCOUS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing irritating fumes . Reacts with strong oxidants acids alkalis and nitrates</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 mg/m<sup>3</sup>; &lt; A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: 10 mg/m<sup>3</sup>; Peak limitation category: II(8); Carcinogen category: 4; Pregnancy risk group: C; (DFG 2004). OSHA PEL<sup>±</sup>: TWA 5 mg/m<sup>3</sup> NIOSH REL: Ca TWA 5 mg/m<sup>3</sup> ST 10 mg/m<sup>3</sup> <a href="#">See Appendix A</a> NIOSH IDLH: Ca 5000 mg/m<sup>3</sup> See: <a href="#">117817</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the testes. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 385°C Melting point: -50°C Relative density (water = 1): 0.986 Solubility in water: none</p>	<p>Vapour pressure, kPa at 20°C: 0.001 Relative vapour density (air = 1): 13.45 Flash point: 215°C o.c. Auto-ignition temperature: 350°C Octanol/water partition coefficient as log Pow: 5.03</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>Bioaccumulation of this chemical may occur in seafood.</p>	
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**NOTES**

Card has been partly updated in October 2005. See section Occupational Exposure Limits.

NFPA Code: H 0; F 1; R 0

**ADDITIONAL INFORMATION**

<b>ICSC: 0271</b>	<b>DI(2-ETHYLHEXYL) PHTHALATE</b>
(C) IPCS, CEC, 1994	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

**CHRYSENE**

ICSC: 1672



Benzoaphenanthrene  
 1,2-Benzophenanthrene  
 1,2,5,6-Dibenzonaphthalene  
 $C_{18}H_{12}$   
 Molecular mass: 228.3

ICSC # 1672  
 CAS # 218-01-9  
 RTECS # [GC0700000](#)  
 UN # 3077  
 EC # 601-048-00-0  
 October 12, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray. Dry powder. Foam. Carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	AVOID ALL CONTACT!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety goggles	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: P3 filter respirator for toxic particles. Do NOT let this chemical enter the environment. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants, Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access.	T symbol N symbol R: 45-68-50/53 S: 53-45-60-61 UN Hazard Class: 9 UN Packing Group: III Signal: Warning Aqua-Cancer Suspected of causing cancer Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

**SEE IMPORTANT INFORMATION ON BACK**


# International Chemical Safety Cards

## CHRYSENE

ICSC: 1672

<p><b>I M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO BEIGE CRYSTALS OR POWDER</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes Reacts violently with strong oxidants</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2006). MAK not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 448°C Melting point: 254 - 256°C Density: 1.3 g/cm<sup>3</sup></p>	<p>Solubility in water: very poor Octanol/water partition coefficient as log Pow: 5.9</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in seafood. It is strongly advised that this substance does not enter the environment.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. This substance does not usually occur as a pure substance but as a component of polyaromatic hydrocarbon (PAH) mixtures. Human population studies have associated PAH's exposure with cancer and cardiovascular diseases.

Transport Emergency Card: TEC (R)-90GM7-III

**ADDITIONAL INFORMATION**

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ICSC: 1672

CHRYSENE

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

**DIBENZO(a,h)ANTHRACENE**

ICSC: 0431



1,25,6-Dibenzanthracene  
 $C_{22}H_{14}$   
 Molecular mass: 278.4

ICSC # 0431  
 CAS # 53-70-3  
 RTECS # [HN2625000](#)  
 EC # 601-041-00-2  
 October 23, 1995 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray, powder.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>	Redness. Swelling. Itching.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.	Well closed.	T symbol N symbol R: 45-50/53 S: 53-45-60-61

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0431**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**DIBENZO(a,h)ANTHRACENE**

ICSC: 0431

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALLINE POWDER.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
<b>M</b>	<b>PHYSICAL DANGERS:</b>	<b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration
<b>P</b>		
<b>O</b>		

R  
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**CHEMICAL DANGERS:**

of airborne particles can, however, be reached quickly.

**OCCUPATIONAL EXPOSURE LIMITS:**  
TLV not established.

**EFFECTS OF SHORT-TERM EXPOSURE:**

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

The substance may have effects on the skin, resulting in photosensitization. This substance is probably carcinogenic to humans.

**PHYSICAL PROPERTIES**

Boiling point: 524°C  
Melting point: 267°C  
Relative density (water = 1): 1.28

Solubility in water:  
none  
Octanol/water partition coefficient as log Pow: 6.5

**ENVIRONMENTAL DATA**

Bioaccumulation of this chemical may occur in seafood.



**NOTES**

This is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, it may be encountered as a laboratory chemical in its pure form. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken. Do NOT take working clothes home. DBA is a commonly used name. This substance is one of many polycyclic aromatic hydrocarbons (PAH).

**ADDITIONAL INFORMATION**

**ICSC: 0431**

**DIBENZO(a,h)ANTHRACENE**

(C) IPCS, CEC, 1994

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dibenzofuran

Product Number : 236373  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Toxic by ingestion

#### HMIS Classification

Health hazard: 2  
Flammability: 1  
Physical hazards: 0

#### NFPA Rating

Health hazard: 2  
Fire: 1  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** Toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Diphenylene oxide

Formula : C<sub>12</sub>H<sub>8</sub>O

Molecular Weight : 168.19 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Dibenzofuran</b>			
132-64-9	205-071-3	-	-

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves.

**Eye protection**

Face shield and safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	crystalline
Colour	white, beige

### Safety data

pH	no data available
Melting point	80 - 82 °C (176 - 180 °F) - lit.
Boiling point	154 - 155 °C (309 - 311 °F) at 27 hPa (20 mmHg) - lit.
Flash point	130.0 °C (266.0 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 3.77

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (GHS)**

no data available

**Specific target organ toxicity - repeated exposure (GHS)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: HP4430000

---

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish	NOEC - Cyprinodon variegatus (sheepshead minnow) - 1 mg/l - 96.0 h LC50 - Pimephales promelas (fathead minnow) - 1.05 mg/l - 96.0 h
------------------	--

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Dibenzofuran)  
Reportable Quantity (RQ): 100 lbs  
Marine pollutant: Marine pollutant  
Poison Inhalation Hazard: No

**IMDG**

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzofuran)  
Marine pollutant: Marine pollutant

**IATA**

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenzofuran)

---

**15. REGULATORY INFORMATION**

**OSHA Hazards**

Toxic by ingestion

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION**

**Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

# International Chemical Safety Cards

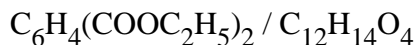
## DIETHYL PHTHALATE

ICSC: 0258



1,2-Benzenedicarboxylic acid diethyl ester

DEP



Molecular mass: 222.3

ICSC # 0258

CAS # 84-66-2

RTECS # [T11050000](#)

March 13, 2001 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Alcohol-resistant foam, powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
• <b>INHALATION</b>	Dizziness. Dullness.	Ventilation. Local exhaust.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Nausea.	Do not eat, drink, or smoke during work.	Rinse mouth. Give one or two glasses of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: particulate filter adapted to the airborne concentration of the substance. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.		

**SEE IMPORTANT INFORMATION ON BACK**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version


**ICSC: 0258**

have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## DIETHYL PHTHALATE

**ICSC: 0258**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS OILY LIQUID</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating or on burning producing toxic fumes and gases (phthalic anhydride - see ICSC 0315). Attacks some plastics.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 mg/m<sup>3</sup> as TWA; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2005). MAK not established. OSHA PEL<sup>†</sup>: none NIOSH REL: TWA 5 mg/m<sup>3</sup> NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 295°C Melting point: -67 to -44°C Relative density (water = 1): 1.1 Solubility in water, g/100 ml at 25°C: none</p>	<p>Relative vapour density (air = 1): 7.7 Flash point: 117°C (c.c.) Auto-ignition temperature: 457°C Explosive limits, vol% in air: 0.7%- ? Octanol/water partition coefficient as log Pow: 2.47</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous to the environment; special attention should be given to fish.</p>	
<p><b>NOTES</b></p>		
<p>Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response. NFA Code: H 0; F 1; R 0; Card has been partially updated in July 2007: see Spillage Disposal.</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p><b>ICSC: 0258</b> <span style="float: right;"><b>DIETHYL PHTHALATE</b></span></p> <p style="text-align: center;">(C) IPCS, CEC, 1994</p>		

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# International Chemical Safety Cards

## DIMETHYL PHTHALATE

ICSC: 0261



Dimethyl 1,2-benzenedicarboxylate  
 Phthalic acid dimethyl ester  
 1,2-Benzenedicarboxylic acid, dimethyl ester  
 $C_6H_4(COOCH_3)_2 / C_{10}H_{10}O_4$   
 Molecular mass: 194.2

ICSC # 0261  
 CAS # 131-11-3  
 RTECS # [T11575000](#)  
 October 19, 2005 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
• <b>INHALATION</b>		Ventilation.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT let this chemical enter the environment. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place.	Store in an area without drain or sewer access.	

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0261**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

# DIMETHYL PHTHALATE

ICSC: 0261

<p><b>I M P O R T A N T A D V I S I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> OILY COLOURLESS LIQUID</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing irritating fumes .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 mg/m<sup>3</sup> as TWA; (ACGIH 2005). MAK not established. OSHA PEL: TWA 5 mg/m<sup>3</sup> NIOSH REL: TWA 5 mg/m<sup>3</sup> NIOSH IDLH: 2000 mg/m<sup>3</sup> See: <a href="#">131113</a></p>	<p><b>ROUTES OF EXPOSURE:</b></p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 284°C Melting point: 5.5°C Relative density (water = 1): 1.19 Solubility in water, g/100 ml at 20°C: 0.43 Vapour pressure, Pa at 20°C: 0.8 Relative vapour density (air = 1): 6.69</p>	<p>Flash point: 146 °C c.c.</p> <p>Auto-ignition temperature: 490°C Explosive limits, vol% in air: 0.9 at 180°C- 8.0 at 109°C Octanol/water partition coefficient as log Pow: 1.47-2.12</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms.</p>	
<p><b>NOTES</b></p>		
<p>Common name: DMP. Other melting points: the commercial product freezes around 0°C.</p>		
<p>NFPA Code: H1; F1; R0</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p><b>ICSC: 0261</b> <span style="float: right;"><b>DIMETHYL PHTHALATE</b></span></p> <p style="text-align: center;">(C) IPCS, CEC, 1994</p>		
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# International Chemical Safety Cards

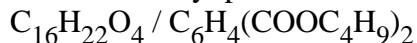
## DIBUTYL PHTHALATE

ICSC: 0036



1,2-Benzenedicarboxylic acid dibutyl ester

Di-n-butyl phthalate



Molecular mass: 278.3

ICSC # 0036  
 CAS # 84-74-2  
 RTECS # [TI0875000](#)  
 UN # 3082  
 EC # 607-318-00-4  
 July 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Foam, dry powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS! AVOID ALL CONTACT!	
• <b>INHALATION</b>		Ventilation.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking liquid in covered containers. Absorb remaining liquid in vermiculite, sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.	Separated from strong oxidants. Store in an area without drain or sewer access.	T symbol N symbol R: 61-62-50 S: 53-45-61 UN Hazard Class: 9 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 0036**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## DIBUTYL PHTHALATE

**ICSC: 0036**

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO YELLOW VISCOUS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> As a result of flow, agitation, etc., electrostatic charges can be generated.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and irritating fumes (phthalic anhydride, ICSC 0315). Reacts with strong oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 mg/m<sup>3</sup> as TWA (ACGIH 2001). MAK: 0.05 ppm 0.58 mg/m<sup>3</sup> Peak limitation category: I(2); Carcinogen category: 4; Pregnancy risk group: C (DFG 2009). OSHA PEL: TWA 5 mg/m<sup>3</sup> NIOSH REL: TWA 5 mg/m<sup>3</sup> NIOSH IDLH: 4000 mg/m<sup>3</sup> See: <a href="#">84742</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion .</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 340°C Melting point: -35°C Relative density (water = 1): 1.05 Solubility in water, g/100 ml at 25°C: 0.001 Vapour pressure, kPa at 20°C: &lt; 0.01 Relative vapour density (air = 1): 9.58</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Flash point: 157°C c.c. Auto-ignition temperature: 402°C Explosive limits, vol% in air: 0.5 (at 235°C) to about 2.5 Octanol/water partition coefficient as log Pow: 4.72</p>
<b>ENVIRONMENTAL DATA</b>	<p>The substance is toxic to aquatic organisms.</p>	
<b>NOTES</b>		
<p>NFPA Code: H0; F1; R0.</p> <p>Transport Emergency Card: TEC (R)-90GM6-III Card has been partially updated in April 2010: see Occupational Exposure Limits.</p>		
<b>ADDITIONAL INFORMATION</b>		

**ICSC: 0036****DIBUTYL PHTHALATE**

(C) IPCS, CEC, 1994

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Di-n-octyl phthalate

Product Number : 80153  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>24</sub>H<sub>38</sub>O<sub>4</sub>  
Molecular Weight : 390.56 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Diocetyl phthalate</b>			
117-84-0	204-214-7	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Reproductive hazard

**Target Organs**

Liver

**HMIS Classification**

Health Hazard: 1  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0

**NFPA Rating**

Health Hazard: 1  
Fire: 0  
Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.



**Eyes**  
**Ingestion**

May cause eye irritation.  
May be harmful if swallowed.

#### 4. FIRST AID MEASURES

**General advice**

Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### 5. FIRE-FIGHTING MEASURES

**Flammable properties**

Flash point 109.0 °C (228.2 °F) - closed cup

Ignition temperature no data available

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Avoid breathing vapors, mist or gas.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling**

Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Respiratory protection**

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Hygiene measures**

General industrial hygiene practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form liquid, clear, viscous

Colour colourless

**Safety data**

pH no data available

Melting point no data available

Boiling point no data available

Flash point 109.0 °C (228.2 °F) - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 0.98 g/mL at 20 °C (68 °F)

Water solubility no data available

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 47,000 mg/kg

LD50 Dermal - guinea pig - > 5,000 mg/kg

**Irritation and corrosion**

Skin - rabbit - Mild skin irritation - 24 h

Eyes - rabbit - Mild eye irritation - 24 h

**Sensitisation**

no data available

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Target Organs</b>	Liver,

### Additional Information

RTECS: TI1925000

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## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Bioaccumulation	Gambusia affinis (Mosquito fish) - 33 d Bioconcentration factor (BCF): 9,400
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### Ecotoxicity effects

Toxicity to fish	NOEC - Cyprinodon variegatus (sheepshead minnow) - 168 mg/l - 96 h
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### Further information on ecology

no data available

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## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 3082 Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Diocetyl phthalate)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION**

**OSHA Hazards**

Reproductive hazard

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

**Massachusetts Right To Know Components**

Diethyl phthalate

CAS-No.  
117-84-0

Revision Date  
1989-12-01

**Pennsylvania Right To Know Components**

Diethyl phthalate

CAS-No.  
117-84-0

Revision Date  
1989-12-01

**New Jersey Right To Know Components**

Diethyl phthalate

CAS-No.  
117-84-0

Revision Date  
1989-12-01

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION**

**Further information**

Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Fluoranthene

Product Number : 423947  
Brand : Aldrich

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Harmful by ingestion., Carcinogen

##### GHS Classification

Acute toxicity, Oral (Category 4)  
Acute toxicity, Dermal (Category 5)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H302 : Harmful if swallowed.  
H313 : May be harmful in contact with skin.  
H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 : Avoid release to the environment.  
P501 : Dispose of contents/ container to an approved waste disposal plant.

##### HMIS Classification

Health hazard: 1  
Chronic Health Hazard: \*  
Flammability: 1  
Physical hazards: 0

##### NFPA Rating

Health hazard: 1  
Fire: 1  
Reactivity Hazard: 0

## Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	Harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	Harmful if swallowed.

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Benzo[j,k]fluorene

Formula : C<sub>16</sub>H<sub>10</sub>

Molecular Weight : 202.25 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Fluoranthene</b>			
206-44-0	205-912-4	-	-

---

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.



### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	solid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	Melting point/range: 105 - 110 °C (221 - 230 °F) - lit.
Boiling point	384 °C (723 °F) - lit.
Flash point	198.0 °C (388.4 °F) - closed cup
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available

Odour Threshold no data available

Evaporation rate no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 2,000 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

LD50 Dermal - rabbit - 3,180 mg/kg

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Fluoranthene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be human carcinogens. (Fluoranthene)

Reasonably anticipated to be a human carcinogen (Fluoranthene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

no data available

## Teratogenicity

no data available

## Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

## Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

## Aspiration hazard

no data available

## Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

## Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Synergistic effects

no data available

## Additional Information

RTECS: LL4025000

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.0077 mg/l - 96 h
	NOEC - Cyprinodon variegatus (sheepshead minnow) - 560 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	Immobilization EC50 - Daphnia magna (Water flea) - > 0.005 - < 0.01 mg/l - 3 d
	Immobilization EC50 - Daphnia magna (Water flea) - 0.78 mg/l - 20 h
	NOEC - Daphnia magna (Water flea) - 0.085 mg/l - 48 h

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

no data available

---

### 13. DISPOSAL CONSIDERATIONS

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

---

### 14. TRANSPORT INFORMATION

#### DOT (US)

UN number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Fluoranthene)  
Reportable Quantity (RQ): 100 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

---

### 15. REGULATORY INFORMATION

#### OSHA Hazards

Harmful by ingestion., Carcinogen

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Fluoranthene	206-44-0	2007-03-01

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

#### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Fluoranthene	206-44-0	2007-03-01

#### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Fluoranthene	206-44-0	2007-03-01

#### New Jersey Right To Know Components

	CAS-No.	Revision Date
Fluoranthene	206-44-0	2007-03-01

#### California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Fluoranthene	206-44-0	1990-01-01

---

### 16. OTHER INFORMATION

#### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Fluorene	
Product Number	:	46880	
Brand	:	Aldrich	
Product Use	:	For laboratory research purposes.	
Supplier	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	Manufacturer : Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
Telephone	:	+1 800-325-5832	
Fax	:	+1 800-325-5052	
Emergency Phone # (For both supplier and manufacturer)	:	(314) 776-6555	
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956	

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

No known OSHA hazards

##### GHS Classification

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273

Avoid release to the environment.

P501

Dispose of contents/ container to an approved waste disposal plant.

##### HMIS Classification

Health hazard: 1

Flammability: 1

Physical hazards: 0

##### NFPA Rating

Health hazard: 1

Fire: 1

Reactivity Hazard: 0

##### Potential Health Effects

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.



**Eyes**  
**Ingestion**

May cause eye irritation.  
May be harmful if swallowed.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>13</sub>H<sub>10</sub>  
Molecular Weight : 166.22 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Fluorene</b>			
86-73-7	201-695-5	-	-

---

### 4. FIRST AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

---

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	crystalline
Colour	white

### Safety data

pH	no data available
Melting/freezing point	Melting point/range: 113 - 115 °C (235 - 239 °F) Melting point/range: 111 - 114 °C (232 - 237 °F) - lit.
Boiling point	298 °C (568 °F) - lit.
Flash point	151.0 °C (303.8 °F) - closed cup
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available

Odour Threshold no data available

Evaporation rate no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

LD50 Intraperitoneal - mouse - > 2.0 mg/kg

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Fluorene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

#### Teratogenicity

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

no data available

**Additional Information**

RTECS: LL5670000

---

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish	LC50 - Fish - 0.82 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	Remarks: no data available
Toxicity to algae	EC50 - Algae - 3.4 mg/l - 96 h

**Persistence and degradability****Bioaccumulative potential**

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 24 h Bioconcentration factor (BCF): 512
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**Mobility in soil**

Adsorbs on soil.

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

no data available

---

**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluorene)  
 Marine pollutant: Marine pollutant

**IATA**

UN-Number: 3077 Class: 9 Packing group: III  
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Fluorene)

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

**15. REGULATORY INFORMATION****OSHA Hazards**

No known OSHA hazards

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Fluorene	86-73-7	2007-03-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Fluorene	86-73-7	2007-03-01

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Fluorene	86-73-7	2007-03-01

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION****Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

# International Chemical Safety Cards

## HEXACHLOROBENZENE

ICSC: 0895



Perchlorobenzene  
 HCB  
 Pentachlorophenylchloride  
 Phenyl perchloryl  
 $C_6Cl_6$   
 Molecular mass: 284.8

ICSC # 0895  
 CAS # 118-74-1  
 RTECS # [DA2975000](#)  
 UN # 2729  
 EC # 602-065-00-6  
 March 24, 1999 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!	
<b>•INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Sweep spilled substance into sealable containers. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P3 filter respirator for toxic particles. Chemical protection	Separated from food and feedstuffs . Well closed.	Do not transport with food and feedstuffs. Note: E T symbol N symbol R: 45-48/25-50/53	



suit.		S: 53-45-60-61 UN Hazard Class: 6.1 UN Packing Group: III
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<p><b>ICSC: 0895</b></p> <p style="font-size: small;">Prepared in the context of cooperation between the International Programme on Chemical Safety &amp; the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>		

# International Chemical Safety Cards

## HEXACHLOROBENZENE

**ICSC: 0895**

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO WHITE SOLID IN VARIOUS FORMS.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic fumes.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.002 mg/m<sup>3</sup> as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: skin absorption (H); Carcinogen category: 4; Pregnancy risk group: D; (DFG 2004).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver and nervous system, resulting in impaired functions of organs and skin lesions. This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxic effects upon human reproduction.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 323-326°C Melting point: 231°C Density: 1.21 g/cm <sup>3</sup> Solubility in water, g/100 ml at 20°C: 0.000005	Vapour pressure, Pa at 20°C: 0.001 Relative vapour density (air = 1): 9.8 Flash point: 242°C c.c. Octanol/water partition coefficient as log Pow: 5.5-6.2
<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur specifically in plants and in fish. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.	
<b>NOTES</b>		
Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. Amatin, Anticarie, Bunt-cure, No Bunt 80, Bunt-no-more (Dow chemicals), Co-op-hexa (Bayer chemicals), Sanocide, Sniciotox are trade names. Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.		



Transport Emergency Card: TEC (R)-61GT2-III

**ADDITIONAL INFORMATION**

**ICSC: 0895**

**HEXACHLOROBENZENE**

(C) IPCS, CEC, 1994

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LEGAL  
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# International Chemical Safety Cards

## HEXACHLOROBUTADIENE

ICSC: 0896



1,1,2,3,4,4-Hexachloro-1,3-butadiene  
 Perchlorobutadiene  
 $C_4Cl_6$  /  $CCl_2=CCICCl=CCl_2$   
 Molecular mass: 260.8

ICSC # 0896  
 CAS # 87-68-3  
 RTECS # [EJ0700000](#)  
 UN # 2279  
 August 10, 1997 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
<b>•INHALATION</b>	Burning sensation. Cough. Sore throat. Symptoms may be delayed (see Notes). Coma.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Pain. Redness. Blisters. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Pain. Redness. Severe deep burns. Loss of vision.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Abdominal pain. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal	Separated from food and feedstuffs. Well closed. Ventilation along the floor. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.	Do not transport with food and feedstuffs. Severe marine pollutant. UN Hazard Class: 6.1 UN Packing Group: III	

protection: complete protective clothing including self-contained breathing apparatus).

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0896**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## HEXACHLOROBUTADIENE

**ICSC: 0896**

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic and corrosive fumes including hydrogen chloride and phosgene. Attacks rubber and some forms of plastic.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV (as TWA): 0.02 ppm; 0.21 mg/m<sup>3</sup> A3 (skin) (ACGIH 1997). MAK: skin absorption (H); Carcinogen category: 3B (DFG 2008). OSHA PEL<sup>†</sup>: none NIOSH REL: Ca TWA 0.02 ppm (0.24 mg/m<sup>3</sup>) skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The vapour irritates the eyes, the skin and the respiratory tract. The liquid is corrosive. The substance may cause effects on the kidneys.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization. May cause genetic damage in humans.</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 212°C Melting point: -18°C Relative density (water = 1): 1.68 Solubility in water: none Vapour pressure, Pa at 20°C: 20</p>	<p>Relative vapour density (air = 1): 9.0 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Flash point: 90°C Auto-ignition temperature: 610°C Octanol/water partition coefficient as log Pow: 4.90</p>
<b>ENVIRONMENTAL DATA</b>	<p>The substance is toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish. The substance may cause long-term effects in the aquatic environment.</p>	
<b>NOTES</b>		
<p>Transport Emergency Card: TEC (R)-613</p> <p>NFPA Code: H2; F1; R1;</p> <p>Card has been partially updated in November 2008: see Occupational Exposure Limits,</p>		

**ADDITIONAL INFORMATION**

**ICSC: 0896**

**HEXACHLOROBUTADIENE**

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# International Chemical Safety Cards

## HEXACHLOROCYCLOPENTADIENE

ICSC: 1096



1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene  
 Perchlorocyclopentadiene  
 $C_5Cl_6$

Molecular mass: 272.7

ICSC # 1096

CAS # 77-47-4

RTECS # [GY1225000](#)

UN # 2646

EC # 602-078-00-7

October 19, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Cough. Sore throat. Headache. Diarrhoea. Dizziness. Nausea. Vomiting. Laboured breathing.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. Pain. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain. Blurred vision. Severe deep burns.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Burning sensation. Shock or collapse. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Refer for medical attention.
SPILLAGE DISPOSAL		STORAGE	PACKAGING & LABELLING
Personal protection: chemical protection suit including self-contained breathing apparatus. Do NOT let this		Store in an area without drain or sewer access. Dry. Well closed. Ventilation along the floor.	T+ symbol N symbol



chemical enter the environment. Collect leaking liquid in sealable plastic containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place.

R: 22-24-26-34-50/53  
S: 1/2-25-39-45-53-60-61  
UN Hazard Class: 6.1  
UN Packing Group: I

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 1096**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## HEXACHLOROCYCLOPENTADIENE

**ICSC: 1096**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> OILY YELLOW TO GREEN LIQUID , WITH PUNGENT ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride and phosgene . Reacts with moist air to produce hydrogen chloride (see ICSC0163) . Attacks many metals forming flammable/explosive gas (hydrogen - see ICSC 0001) in the presence of water.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.01 ppm as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2005). MAK: Ilb (not established but data is available); skin absorption (H); (DFG 2005). OSHA PEL<sup>+</sup>: none NIOSH REL: TWA 0.01 ppm (0.1 mg/m<sup>3</sup>) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation of the substance may cause lung oedema (see Notes). The substance may cause effects on the kidneys and liver , resulting in tissue lesions . The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 239°C Melting point: -9°C Relative density (water = 1): 1.7 Solubility in water, g/100 ml at 25°C: 0.2</p>	<p>Vapour pressure, Pa at 20°C: 10.7 Relative vapour density (air = 1): 9.4 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Octanol/water partition coefficient as log Pow: 4-5</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish. The substance may cause long-term effects in the aquatic environment.</p>	
<p><b>NOTES</b></p>		
<p>The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61S2646 or 61GT1-I</p>		

<b>ADDITIONAL INFORMATION</b>	
<b>ICSC: 1096</b>	<b>HEXACHLOROCYCLOPENTADIENE</b>
(C) IPCS, CEC, 1994	

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# International Chemical Safety Cards

**ISOPHORONE**

ICSC: 0169



1,1,3-Trimethyl-3-cyclohexene-5-one  
 3,5,5-Trimethylcyclohex-2-enone  
 Isoacetophorone  
 $C_9H_{14}O$   
 Molecular mass: 138.2

ICSC # 0169  
 CAS # 78-59-1  
 RTECS # [GW7700000](#)  
 EC # 606-012-00-8  
 October 04, 2000 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 84°C explosive vapour/air mixtures may be formed.	Above 84°C use a closed system, ventilation.	
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>	Burning sensation. Sore throat. Cough. Dizziness. Headache. Nausea. Shortness of breath.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain. Blurred vision.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Personal protection: filter respirator for organic gases and vapours.	Separated from strong oxidants, strong bases, amines .	Xn symbol R: 21/22-36/37-40 S: 2-13-23-36/37/39-46	

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0169**

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# International Chemical Safety Cards

**ISOPHORONE**

**ICSC: 0169**

<b>I M P O R T A N T I N F O R M A T I O N</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong oxidants, strong bases and amines.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 ppm; (Ceiling value); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: 2 ppm, 11 mg/m<sup>3</sup>; Peak limitation category: I(2); Carcinogen category: 3B; Pregnancy risk group: C; (DFG 2004). OSHA PEL<sup>†</sup>: TWA 25 ppm (140 mg/m<sup>3</sup>) NIOSH REL: TWA 4 ppm (23 mg/m<sup>3</sup>) NIOSH IDLH: 200 ppm See: <a href="#">78591</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance and the vapour of this substance is irritating to the eyes and the respiratory tract . The substance may cause effects on the central nervous system .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
	<p><b>PHYSICAL PROPERTIES</b></p> <p>Boiling point: 215°C Melting point: -8°C Relative density (water = 1): 0.92 Solubility in water, g/100 ml at 25°C: 1.2 Vapour pressure, Pa at 20°C: 40 Relative vapour density (air = 1): 4.8</p> <p>Flash point: 84°C c.c. Auto-ignition temperature: 460°C Explosive limits, vol% in air: 0.8-3.8 Octanol/water partition coefficient as log Pow: 1.67</p>	
<p><b>ENVIRONMENTAL DATA</b></p>		
<p><b>NOTES</b></p>		
<p>The occupational exposure limit value should not be exceeded during any part of the working exposure. Card has been partly updated in April 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.</p> <p style="text-align: right;">NFPA Code: H 2; F 2; R 0;</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
<p>ICSC: 0169 <span style="float: right;">ISOPHORONE</span></p> <p style="text-align: center;">(C) IPCS, CEC, 1994</p>		

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# International Chemical Safety Cards

## HEXACHLOROETHANE

ICSC: 0051



Perchloroethane  
Carbon hexachloride  
C<sub>2</sub>Cl<sub>6</sub> / Cl<sub>3</sub>CCl<sub>3</sub>  
Molecular mass: 236.7

ICSC # 0051  
CAS # 67-72-1  
RTECS # [KI4025000](#)  
April 28, 1993 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! PREVENT GENERATION OF MISTS!	
<b>•INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED!	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>		Safety goggles .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place.	Separated from metals , food and feedstuffs . See Chemical Dangers.	

**SEE IMPORTANT INFORMATION ON BACK**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the




**ICSC: 0051**

Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## HEXACHLOROETHANE

**ICSC: 0051**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating above 300°C producing toxic and corrosive fumes, phosgene (see ICSC 0007) and hydrogen chloride (see ICSC 0163). Reacts violently with zinc, aluminium powder and sodium. Attacks iron in the presence of moisture.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1 ppm (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: 1 ppm, 9.8 mg/m<sup>3</sup>; Peak limitation category: II(2); (DFG 2004). OSHA PEL: TWA 1 ppm (10 mg/m<sup>3</sup>) skin NIOSH REL: Ca TWA 1 ppm (10 mg/m<sup>3</sup>) skin <a href="#">See Appendix A</a> <a href="#">See Appendix C</a> (Chloroethanes) NIOSH IDLH: Ca 300 ppm See: <a href="#">67721</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Exposure may result in unconsciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver and kidneys . Exposure at far above the OEL may have effects on the central nervous system, inducing tremors and ataxia.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Sublimation point: 183-185°C Relative density (water = 1): 2.1 Solubility in water: none</p>	<p>Vapour pressure, Pa at 20°C: 53 Relative vapour density (air = 1): 8.2 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.0 Octanol/water partition coefficient as log Pow: 3.9</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous in the environment; special attention should be given to fish.</p> 	
<p style="text-align: center;"><b>NOTES</b></p>		
<p>Use of alcoholic beverages enhances the harmful effect. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT use in the vicinity of a fire or a hot surface, or during welding. Card has been partly updated in April 2005. See section Occupational Exposure Limits.</p>		
<p style="text-align: center;"><b>ADDITIONAL INFORMATION</b></p>		
<p> </p>		
<p><b>ICSC: 0051</b></p>	<p style="text-align: right;"><b>HEXACHLOROETHANE</b></p>	

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

**INDENO(1,2,3-cd)PYRENE**

ICSC: 0730



o-Phenylenepyrene  
2,3-Phenylenepyrene  
 $C_{22}H_{12}$   
Molecular mass: 276.3

ICSC # 0730  
CAS # 193-39-5  
RTECS # [NK9300000](#)  
March 25, 1999 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>			In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Well closed.	R: S:

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0730

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**INDENO(1,2,3-cd)PYRENE**

ICSC: 0730

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> YELLOW CRYSTALS	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and through the skin.
<b>M</b>	<b>PHYSICAL DANGERS:</b>	<b>INHALATION RISK:</b>
<b>P</b>		

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**CHEMICAL DANGERS:**  
Upon heating, toxic fumes are formed.

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

**OCCUPATIONAL EXPOSURE LIMITS:**  
TLV not established.  
MAK:  
Carcinogen category: 2;  
(DFG 2004).

**EFFECTS OF SHORT-TERM EXPOSURE:**

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

This substance is possibly carcinogenic to humans.

**PHYSICAL PROPERTIES**

Boiling point: 536°C  
Melting point: 164°C  
Solubility in water:  
none

Octanol/water partition coefficient as log Pow: 6.58

**ENVIRONMENTAL DATA**

This substance may be hazardous to the environment; special attention should be given to air quality and water quality. Bioaccumulation of this chemical may occur in fish.



**NOTES**

Indeno(1,2,3-cd)pyrene is present as a component of polycyclic aromatic hydrocarbons (PAH) content in the environment usually resulting from the incomplete combustion or pyrolysis of organic matters, especially fossil fuels and tobacco. ACGIH recommends environment containing Indeno(1,2,3-c,d)pyrene should be evaluated in terms of the TLV-TWA for coal tar pitch volatile, as benzene soluble 0.2 mg/m<sup>3</sup>. Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

**ADDITIONAL INFORMATION**

**ICSC: 0730**

**INDENO(1,2,3-cd)PYRENE**

(C) IPCS, CEC, 1994

**IMPORTANT LEGAL NOTICE:**

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# International Chemical Safety Cards

**NAPHTHALENE**

ICSC: 0667



Naphthene  
C<sub>10</sub>H<sub>8</sub>

Molecular mass: 128.18

ICSC # 0667  
CAS # 91-20-3  
RTECS # QJ0525000  
UN # 1334 (solid); 2304 (molten)  
EC # 601-052-00-2  
April 21, 2005 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 80°C explosive vapour/air mixtures may be formed. Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Headache. Weakness. Nausea. Vomiting. Sweating. Confusion. Jaundice. Dark urine.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves.	Rinse skin with plenty of water or shower.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Diarrhoea. Convulsions. Unconsciousness. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants, food and feedstuffs. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol. N symbol. R: 22-40-50/53. S: 2-36/37-46-60-61. UN Hazard Class: 4.1. UN Packing Group: III.

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0667**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## NAPHTHALENE

ICSC: 0667

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE SOLID IN VARIOUS FORMS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms irritating and toxic gases. Reacts with strong oxidants</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 ppm as TWA 15 ppm as STEL (skin) A4 (not classifiable as a human carcinogen); (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 2; Germ cell mutagen group: 3B; (DFG 2004). OSHA PEL<sup>†</sup>: TWA 10 ppm (50 mg/m<sup>3</sup>) NIOSH REL: TWA 10 ppm (50 mg/m<sup>3</sup>) ST 15 ppm (75 mg/m<sup>3</sup>) NIOSH IDLH: 250 ppm See: <a href="#">91203</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C. See Notes.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the blood , resulting in lesions of blood cells (haemolysis) See Notes. The effects may be delayed. Exposure by ingestion may result in death. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood , resulting in chronic haemolytic anaemia. The substance may have effects on the eyes , resulting in the development of cataract. This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 218°C Sublimation slowly at room temperature Melting point: 80°C Density: 1.16 g/cm<sup>3</sup> Solubility in water, g/100 ml at 25°C: none</p>	<p>Vapour pressure, Pa at 25°C: 11 Relative vapour density (air = 1): 4.42 Flash point: 80°C c.c. Auto-ignition temperature: 540°C Explosive limits, vol% in air: 0.9-5.9 Octanol/water partition coefficient as log Pow: 3.3</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.</p>	
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**NOTES**

Some individuals may be more sensitive to the effect of naphthalene on blood cells.  
 Transport Emergency Card: TEC (R)-41S1334 (solid); 41GF1-II+III (solid); 41S2304 (molten)  
 NFPA Code: H2; F2; R0;

**ADDITIONAL INFORMATION**

<b>ICSC: 0667</b>	<b>NAPHTHALENE</b>
(C) IPCS, CEC, 1994	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

**NITROBENZENE**

ICSC: 0065



$C_6H_5NO_2$   
Molecular mass: 123.1

ICSC # 0065  
CAS # 98-95-3  
RTECS # [DA6475000](#)  
UN # 1662  
EC # 609-003-00-7  
April 06, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray. Alcohol-resistant foam. Dry powder. Carbon dioxide.
<b>EXPLOSION</b>	Above 88°C explosive vapour/air mixtures may be formed. Risk of fire and explosion (see Chemical Dangers).	Above 88°C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>•INHALATION</b>	Headache. Blue lips or finger nails. Blue skin. Dizziness. Nausea. Weakness. Confusion. Convulsions. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	<b>MAY BE ABSORBED!</b> (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	(see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.
SPILLAGE DISPOSAL		STORAGE	PACKAGING & LABELLING
Personal protection: complete protective clothing including self-contained breathing apparatus. Collect		Separated from combustible and reducing substances, strong oxidants, strong acids, food and feedstuffs . Store	Do not transport with food and feedstuffs. T symbol

<p>leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.</p>	<p>in an area without drain or sewer access.</p>	<p>N symbol                  R: 23/24/25-40-48/23/24-51/53-62                  S: 1/2-28-36/37-45-61                  UN Hazard Class: 6.1                  UN Packing Group: II                  Signal: Danger                  Skull-Health haz                  Harmful if swallowed                  Toxic if inhaled vapour                  Toxic in contact with skin                  Suspected of causing cancer                  Suspected of damaging fertility or the unborn child                  May cause damage to blood cells                  Harmful to aquatic life with long lasting effects</p>
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**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0065**


Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## NITROBENZENE

**ICSC: 0065**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> PALE YELLOW OILY LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic and corrosive fumes including nitrogen oxides. Reacts violently with strong oxidants and reducing agents causing fire and explosion hazard. Reacts violently with strong acids and nitrogen oxides causing explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1 ppm as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 3B; BAT issued; (DFG 2006). EU OEL: 1 mg/m<sup>3</sup>, 0.2 ppm as TWA (skin) (EU 2006). OSHA PEL: TWA 1 ppm (5 mg/m<sup>3</sup>) skin NIOSH REL: TWA 1 ppm (5 mg/m<sup>3</sup>) skin NIOSH IDLH: 200 ppm See: <a href="#">98953</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation through the skin and by ingestion</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the blood , resulting in the formation of methaemoglobin. Exposure could cause lowering of consciousness. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood , spleen and liver . This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
	<p>Boiling point: 211°C</p>	<p>Relative density of the vapour/air-mixture at</p>

<p><b>PHYSICAL PROPERTIES</b></p>	<p>Melting point: 5°C                  Relative density (water = 1): 1.2                  Solubility in water, g/100 ml: 0.2                  Vapour pressure, Pa at 20°C: 20                  Relative vapour density (air = 1): 4.2</p>	<p>20°C (air = 1): 1.00                  Flash point: 88°C c.c.                  Auto-ignition temperature: 480°C                  Explosive limits, vol% in air: 1.8-40                  Octanol/water partition coefficient as log Pow: 1.86</p>
<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is harmful to aquatic organisms. It is strongly advised that this substance does not enter the environment.</p> 	
<p style="text-align: center;"><b>NOTES</b></p>		
<p>Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is suggested. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. Do NOT take working clothes home. Card has been partly updated in October 2006: see sections Occupational Exposure Limits.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61S1662 or 61GT1-II                  NFPA Code: H 3; F 2; R 1;                  Card has been partially updated in January 2008: see GHS classification.</p>		
<p style="text-align: center;"><b>ADDITIONAL INFORMATION</b></p>		
<p> </p>		
<p><b>ICSC: 0065</b></p>	<p><b>NITROBENZENE</b></p>	
<p style="text-align: center;">(C) IPCS, CEC, 1994</p>		
<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>	

# International Chemical Safety Cards

## N-NITROSODIMETHYLAMINE

ICSC: 0525



Dimethylnitrosamine  
 N-Methyl-N-nitrosomethylamine  
 DMN  
 $C_2H_6N_2O / (CH_3)_2NN=O$   
 Molecular mass: 74.1

ICSC # 0525  
 CAS # 62-75-9  
 RTECS # [IQ0525000](#)  
 UN # 2810  
 EC # 612-077-00-3  
 March 13, 2001 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Sore throat. Cough. Nausea. Diarrhoea. Vomiting. Headache. Weakness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>•EYES</b>	Pain. Redness.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal cramps. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Give a slurry of activated charcoal in water to drink. Refer for medical attention.
SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING	
Evacuate danger area! Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Chemical protection suit including self-contained breathing apparatus.	Separated from strong oxidants, food and feedstuffs . Cool. Keep in the dark. Well closed.	Do not transport with food and feedstuffs. Unbreakable packaging; put breakable packaging into closed unbreakable container. Note: E T+ symbol N symbol	

R: 45-25-26-48/25-51/53  
 S: 53-45-61  
 UN Hazard Class: 6.1  
 UN Packing Group: I

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0525**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## N-NITROSODIMETHYLAMINE

**ICSC: 0525**

<p><b>I M P O R T A N T A D V I S I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW OILY LIQUID</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing nitrogen oxides . Reacts with strong oxidants and strong bases .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: (skin) A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2000). MAK: skin absorption (H); Carcinogen category: 2 (DFG 2006). OSHA PEL: 1910.1016 <a href="#">See Appendix B</a> NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the liver , resulting in jaundice. The effects may be delayed. See Notes. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver , resulting in liver function impairment and cirrhosis. This substance is probably carcinogenic to humans.</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 151°C                      Relative density (water = 1): 1.0                      Solubility in water:                      very good</p>	<p>Vapour pressure, Pa at 20°C: 360                      Relative vapour density (air = 1): 2.56                      Flash point: 61°C                      Octanol/water partition coefficient as log Pow: -0.57</p>
<p><b>ENVIRONMENTAL DATA</b></p>		
<p><b>NOTES</b></p>		
<p>The symptoms of jaundice do not become manifest until some hours have passed. Environmental effects from the substance have not been investigated adequately .</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61G61b</p> <p style="text-align: center;">Card has been partially updated in August 2007: see Ingestion First Aid, Occupational Exposure Limits.</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		

**ICSC: 0525****N-NITROSODIMETHYLAMINE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : *N*-Nitrosodi-*n*-propylamine

Product Number : 48554  
Brand : Supelco

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Toxic by ingestion, Carcinogen

##### Target Organs

Liver, Kidney, Throat., Lungs

##### GHS Classification

Acute toxicity, Oral (Category 4)  
Carcinogenicity (Category 1B)  
Acute aquatic toxicity (Category 2)  
Chronic aquatic toxicity (Category 4)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed.  
H350 May cause cancer.  
H401 Toxic to aquatic life.  
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P201 Obtain special instructions before use.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

#### HMIS Classification

Health hazard: 2  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0

**NFPA Rating**

Health hazard: 2  
Fire: 0  
Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** Toxic if swallowed.

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O  
Molecular Weight : 130.22 g/mol

Component	Concentration
<b>N-Nitroso dipropylamine</b>	
CAS-No. 621-64-7	-
EC-No. 210-698-0	
Index-No. 612-098-00-8	

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**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

**5. FIREFIGHTING MEASURES****Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	0.92 g/cm <sup>3</sup>
Water solubility	no data available

Partition coefficient: n-octanol/water	log Pow: 1.36
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

copper salts, mercury salts, Strong mineral acids, Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 480.0 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (N-Nitroso dipropylamine)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen (N-Nitroso dipropylamine)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

no data available

**Additional Information**

RTECS: JL9700000

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**12. ECOLOGICAL INFORMATION**

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

---

**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (N-Nitroso dipropylamine)  
Marine pollutant: No  
Poison Inhalation Hazard: No

### IMDG

UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-Nitroso dipropylamine)  
Marine pollutant: No

### IATA

UN number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (N-Nitroso dipropylamine)

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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## 15. REGULATORY INFORMATION

### OSHA Hazards

Toxic by ingestion, Carcinogen

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
N-Nitroso dipropylamine	621-64-7	2007-07-01

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

	CAS-No.	Revision Date
N-Nitroso dipropylamine	621-64-7	2007-07-01

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
N-Nitroso dipropylamine	621-64-7	2007-07-01

### New Jersey Right To Know Components

	CAS-No.	Revision Date
N-Nitroso dipropylamine	621-64-7	2007-07-01

### California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. N-Nitroso dipropylamine	621-64-7	2007-09-28

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## 16. OTHER INFORMATION

### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

## N-NITROSODIPHENYLAMINE

ICSC: 0526



Diphenylnitrosamine  
 N-Nitroso-N-phenyl benzenamine  
 N-nitroso-N-phenylaniline  
 Nitrous diphenylamide  
 $C_{12}H_{10}N_2O$   
 Molecular mass: 198.2

ICSC # 0526

CAS # 86-30-6

RTECS # [JJ9800000](#)

November 26, 2003 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Foam , powder, carbon dioxide .
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
<b>•INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Do NOT let this chemical enter the environment.	Separated from strong oxidants. Store in an area without drain or sewer access.	

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0526**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## N-NITROSODIPHENYLAMINE

ICSC: 0526

I M P O R T A N T D A T A	<p><b>PHYSICAL STATE; APPEARANCE:</b> YELLOW FLAKES</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing nitrogen oxides . Reacts vigorously with oxidants.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK: Carcinogen category: 3B (DFG 2006).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 101°C Melting point: 66.5°C Density: 1.23 g/cm <sup>3</sup>	Solubility in water: none Octanol/water partition coefficient as log Pow: 2.57-3.13
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<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish. It is strongly advised that this substance does not enter the environment.	
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### NOTES

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.  
 Card has been partially updated in August 2007: see Occupational Exposure Limits,

### ADDITIONAL INFORMATION

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ICSC: 0526

N-NITROSODIPHENYLAMINE

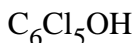
(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

## PENTACHLOROPHENOL

ICSC: 0069



Molecular mass: 266.4

ICSC # 0069  
 CAS # 87-86-5  
 RTECS # [SM6300000](#)  
 UN # 3155  
 EC # 604-002-00-8  
 August 05, 2003 Validated




TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN! AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Cough. Dizziness. Drowsiness. Headache. Fever or elevated body temperature. Laboured breathing. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness. Blisters. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention. Wear protective gloves when administering first aid.
<b>•EYES</b>	Redness. Pain.	Safety goggles, face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal cramps. Diarrhoea. Nausea. Unconsciousness. Vomiting. Weakness. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Give plenty of water to drink. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>

<p>Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Complete protective clothing. (Extra personal protection: P3 filter respirator for toxic particles.)</p>	<p>Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs . Keep in a well-ventilated room.</p>	<p>Do not transport with food and feedstuffs. Severe marine pollutant. T+ symbol N symbol R: 24/25-26-36/37/38-40-50/53 S: 1/2-22-36/37-45-52-60-61 UN Hazard Class: 6.1 UN Packing Group: II</p>
<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<p><b>ICSC: 0069</b> Prepared in the context of cooperation between the International Programme on Chemical Safety &amp; the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>		

# International Chemical Safety Cards

## PENTACHLOROPHENOL

**ICSC: 0069**

<p><b>I M P O R T A N T I N F O R M A T I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE CRYSTALS OR SOLID IN VARIOUS FORMS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating above 200°C, producing toxic and corrosive fumes including dioxins . Reacts violently with strong oxidants .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 mg/m<sup>3</sup> as TWA; (skin); A3; BEI issued; (ACGIH 2003). MAK: H; Carcinogen category: 2; (DFG 2002). OSHA PEL: TWA 0.5 mg/m<sup>3</sup> skin NIOSH REL: TWA 0.5 mg/m<sup>3</sup> skin NIOSH IDLH: 2.5 mg/m<sup>3</sup> See: <a href="#">87865</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract . The substance may cause effects on the cardiovascular system , resulting in cardiac disorders and heart failure.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the central nervous system , kidneys , liver , lungs , immune system , thyroid . This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point (decomposes): 309°C Melting point: 191°C Density: 1.98 Solubility in water, g/100 ml at 20°C: 0.001</p>	<p>Vapour pressure, Pa at 20°C: 0.02 Relative vapour density (air = 1): 9.2 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00 Octanol/water partition coefficient as log Pow: 5.01</p>
<b>ENVIRONMENTAL DATA</b>	<p>The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.</p>	

**NOTES**

The commercial product may contain very toxic impurities (dioxins). The odour warning when the exposure limit value is exceeded is insufficient.

Transport Emergency Card: TEC (R)-61GT2-II

NFPA Code: H 3; F 0; R 0;

**ADDITIONAL INFORMATION**

**ICSC: 0069**

**PENTACHLOROPHENOL**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Phenanthrene

Product Number : 695114  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Harmful by ingestion., Irritant

##### Other hazards which do not result in classification

Photosensitizer.

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### HMIS Classification

Health hazard:	2
Flammability:	0
Physical hazards:	0

#### NFPA Rating

Health hazard:	2
Fire:	0
Reactivity Hazard:	0

#### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.

**Eyes**  
**Ingestion**

Causes eye irritation.  
Harmful if swallowed.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>14</sub>H<sub>10</sub>  
Molecular Weight : 178.23 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Phenanthrene</b>			
85-01-8	201-581-5	-	-

---

### 4. FIRST AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

---

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Handle and store under inert gas.

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

Components	CAS-No.	Value	Control	Update	Basis
------------	---------	-------	---------	--------	-------



**Acute toxicity**

LD50 Oral - mouse - 700.0 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenanthrene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

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**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 3.2 mg/l - 96.0 h LC100 - other fish - 1.5 mg/l - 1.0 h
Toxicity to daphnia	EC50 - Daphnia magna (Water flea) - 0.86 mg/l - 24 h

and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 0.38 mg/l - 48 h

Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 1.20 mg/l - 3 h

#### **Persistence and degradability**

Biodegradability Result: 55 - 95 % - Partially biodegradable.

#### **Bioaccumulative potential**

Bioaccumulation Pimephales promelas (fathead minnow) - 28 d  
Bioconcentration factor (BCF): 5,100

#### **Mobility in soil**

no data available

#### **PBT and vPvB assessment**

no data available

#### **Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms.

---

### **13. DISPOSAL CONSIDERATIONS**

#### **Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### **Contaminated packaging**

Dispose of as unused product.

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### **14. TRANSPORT INFORMATION**

#### **DOT (US)**

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Phenanthrene)  
Reportable Quantity (RQ): 5000 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

#### **IMDG**

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenanthrene)  
Marine pollutant: No

#### **IATA**

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Phenanthrene)

#### **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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### **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

Harmful by ingestion., Irritant

#### **DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Phenanthrene	85-01-8	2007-07-01

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Phenanthrene	85-01-8	1990-01-01

---

**16. OTHER INFORMATION****Further information**

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# International Chemical Safety Cards

**PHENOL**

ICSC: 0070



Carbolic acid  
 Phenic acid  
 Hydroxybenzene  
 $C_6H_6O / C_6H_5OH$   
 Molecular mass: 94.1

ICSC # 0070  
 CAS # 108-95-2  
 RTECS # [SJ3325000](#)  
 UN # 1671  
 EC # 604-001-00-2  
 October 15, 2001 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames. NO contact with strong oxidants.	Alcohol-resistant foam, powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 79°C explosive vapour/air mixtures may be formed.	Above 79°C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>•INHALATION</b>	Sore throat. Burning sensation. Cough. Dizziness. Headache. Nausea. Vomiting. Shortness of breath. Laboured breathing. Unconsciousness. Symptoms may be delayed (see Notes).	Avoid inhalation of fine dust and mist. Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Refer for medical attention.
<b>•SKIN</b>	<b>EASILY ABSORBED.</b> Serious skin burns. Numbness. Convulsion. Collapse. Coma. Death.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. To remove substance use polyethylene glycol 300 or vegetable oil. Refer for medical attention. Wear protective gloves when administering first aid.
<b>•EYES</b>	Pain. Redness. Permanent loss of vision. Severe deep burns.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Corrosive. Abdominal pain. Convulsions. Diarrhoea. Shock or collapse. Sore throat. Smoky, greenish-dark urine.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give one or two glasses of water to drink. Do NOT induce vomiting. Refer for medical attention.


SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING		
Personal protection: complete protective clothing including self-contained breathing apparatus. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs . Dry. Well closed. Keep in a well-ventilated room. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. T symbol C symbol R: 23/24/25-34-48/20/21/22-68 S: 1/2-24/25-26-28-36/37/39-45 UN Hazard Class: 6.1 UN Packing Group: II		
<b>SEE IMPORTANT INFORMATION ON BACK</b>				
<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;"><b>ICSC: 0070</b></td> <td>Prepared in the context of cooperation between the International Programme on Chemical Safety &amp; the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</td> </tr> </table>			<b>ICSC: 0070</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
<b>ICSC: 0070</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.			

# International Chemical Safety Cards

## PHENOL

ICSC: 0070

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO YELLOW OR LIGHT PINK CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Upon heating, toxic fumes are formed. The solution in water is a weak acid. Reacts with oxidants causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 5 ppm as TWA; (skin); A4; BEI issued; (ACGIH 2004). MAK: H; Carcinogen category: 3B; Germ cell mutagen group: 3B (DFG 2009). OSHA PEL: TWA 5 ppm (19 mg/m<sup>3</sup>) skin NIOSH REL: TWA 5 ppm (19 mg/m<sup>3</sup>) C 15.6 ppm (60 mg/m<sup>3</sup>) 15-minute skin NIOSH IDLH: 250 ppm See: <a href="#">108952</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body rapidly by inhalation of its vapour, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance and the vapour is corrosive to the eyes, the skin and the respiratory tract. Inhalation of vapour may cause lung oedema (see Notes). The substance may cause effects on the central nervous system , heart and kidneys , resulting in convulsions, coma, cardiac disorders respiratory failure, collapse. Exposure may result in death. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the liver and kidneys .</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point: 182°C Melting point: 43°C Density: 1.06 g/cm <sup>3</sup> Solubility in water: moderate Vapour pressure, Pa at 20°C: 47	Relative vapour density (air = 1): 3.2 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.001 Flash point: 79°C c.c. Auto-ignition temperature: 715°C Explosive limits, vol% in air: 1.36-10 Octanol/water partition coefficient as log Pow: 1.46

<b>ENVIRONMENTAL DATA</b>	The substance is toxic to aquatic organisms.			
<b>NOTES</b>				
<p>Other UN numbers: 2312 (molten); 2821 (solution). Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is suggested. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61S1671</p> <p style="text-align: right;">NFPA Code: H 3; F 2; R 0;</p> <p>Card has been partially updated in October 2004: see Occupational Exposure Limits, EU Classification, Emergency Response.</p> <p>Card has been partially updated in April 2010: see Occupational Exposure Limits, Ingestion First Aid, Storage.</p>				
<b>ADDITIONAL INFORMATION</b>				
<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>				
<b>ICSC: 0070</b>	<b>PHENOL</b>	(C) IPCS, CEC, 1994		
<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>			

# International Chemical Safety Cards

**PYRENE**

ICSC: 1474



Benzo (d,e,f) phenanthrene  
beta-Pyrene  
 $C_{16}H_{10}$   
Molecular mass: 202.26

ICSC # 1474  
CAS # 129-00-0  
RTECS # [UR2450000](#)  
November 27, 2003 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Water spray, carbon dioxide, dry powder, alcohol-resistant foam, foam.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
• <b>INHALATION</b>		Avoid inhalation of dust	Fresh air, rest.
• <b>SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for harmful particles.)	Separated from strong oxidants. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. R: S:

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 1474

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**PYRENE**

ICSC: 1474

I  M	<b>PHYSICAL STATE; APPEARANCE:</b> YELLOW COLOURLESS SOLID IN VARIOUS FORMS	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation through the skin and by ingestion
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**PHYSICAL DANGERS:**

**CHEMICAL DANGERS:**

The substance decomposes on heating producing irritating fumes

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV not established.  
MAK not established.

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

**EFFECTS OF SHORT-TERM EXPOSURE:**

Exposure to sun may provoke an irritating effect of pyrene on skin and lead to chronic skin discoloration.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

**PHYSICAL PROPERTIES**

Boiling point: 404°C  
Melting point: 151°C  
Density: 1.27 g/cm<sup>3</sup>

Solubility in water: 0.135 mg/l at 25°C  
Vapour pressure, Pa at °C: 0.08  
Octanol/water partition coefficient as log Pow: 4.88

**ENVIRONMENTAL DATA**

Bioaccumulation of this chemical may occur in crustacea, in fish, in milk, in algae and in molluscs. It is strongly advised that this substance does not enter the environment.



**NOTES**

Pyrene is one of many polycyclic aromatic hydrocarbons - standards are usually established for them as mixtures, e.g., coal tar pitch volatiles. However, pyrene may be encountered as a laboratory chemical in its pure form. Health effects of exposure to the substance have not been investigated adequately. See ICSC 1415 Coal-tar pitch.

**ADDITIONAL INFORMATION**

**ICSC: 1474**

**PYRENE**

(C) IPCS, CEC, 1994

**IMPORTANT LEGAL NOTICE:**

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# International Chemical Safety Cards

**PYRIDINE**

ICSC: 0323



Azine  
Azabenzene  
C<sub>5</sub>H<sub>5</sub>N

Molecular mass: 79.1

ICSC # 0323

CAS # 110-86-1

RTECS # [UR8400000](#)

UN # 1282

EC # 613-002-00-7

December 04, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Powder, alcohol-resistant foam, water in large amounts, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Cough. Dizziness. Headache. Nausea. Shortness of breath. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
<b>•SKIN</b>	<b>MAY BE ABSORBED!</b> Redness. Burning sensation (further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Redness. Pain.	Safety spectacles. or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Diarrhoea. Vomiting. Weakness (further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>	<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>	
Personal protection: self-contained	Fireproof. Separated from strong		



breathing apparatus. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer.	oxidants, strong acids. Cool. Dry. Well closed.	F symbol Xn symbol R: 11-20/21/22 S: 2-26-28 UN Hazard Class: 3 UN Packing Group: II
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<b>SEE IMPORTANT INFORMATION ON BACK</b>		
<b>ICSC: 0323</b>	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## PYRIDINE

**ICSC: 0323**

<b>I M P O R T A N T A D A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b> The vapour is heavier than air and may travel along the ground; distant ignition possible.</p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning producing toxic fumes ( nitrogen oxides and hydrogen cyanide - see ICSC # 0492). The substance is a weak base. Reacts violently with strong oxidants and strong acids .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1 ppm (as TWA) A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 3B (DFG 2009). OSHA PEL: TWA 5 ppm (15 mg/m<sup>3</sup>) NIOSH REL: TWA 5 ppm (15 mg/m<sup>3</sup>) NIOSH IDLH: 1000 ppm See: <a href="#">110861</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system and gastrointestinal tract. Exposure far above the OEL could cause lowering of consciousness.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the central nervous system , liver , kidneys .</p>
<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 115°C Melting point: -42°C Relative density (water = 1): 0.98 Solubility in water: miscible Vapour pressure, kPa at 20°C: 2.0 Relative vapour density (air = 1): 2.73</p>	<p>Relative density of the vapour/air-mixture at 20°C (air = 1): 1.03 Flash point: 20°C c.c. Auto-ignition temperature: 482°C Explosive limits, vol% in air: 1.8-12.4 Octanol/water partition coefficient as log Pow: 0.65</p>
<b>ENVIRONMENTAL</b>	<p>The substance is harmful to aquatic organisms.</p>	



<b>DATA</b>	
<b>NOTES</b>	
<p>Pyridine can normally be detected by odour at levels well below the TLV. However, perception of the odour may decline quickly. Depending on the degree of exposure, periodic medical examination is indicated.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-98</p> <p style="text-align: right;">NFPA Code: H 2; F 3; R 0;</p> <p style="text-align: center;">Card has been partially updated in January 2008: see Ingestion First Aid. Card has been partially updated in April 2010: see Occupational Exposure Limits, Spillage Disposal.</p>	
<b>ADDITIONAL INFORMATION</b>	
<p><b>ICSC: 0323</b> <span style="float: right;"><b>PYRIDINE</b></span></p> <p style="text-align: center;">(C) IPCS, CEC, 1994</p>	

<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 4,4'-DDD PESTANAL,250 MG (2,2-BIS(4-CHL&

Product Number : 35486  
Brand : Fluka

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Toxic by ingestion, Harmful by skin absorption., Possible carcinogen.

##### GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.  
H312 Harmful in contact with skin.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.  
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### HMIS Classification

Health hazard: 2  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0

#### NFPA Rating

Health hazard: 2  
Fire: 0  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** Harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** Toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane  
4,4'-DDD  
TDE

Formula : C<sub>14</sub>H<sub>10</sub>Cl<sub>4</sub>  
Molecular Weight : 320.04 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane</b>			
72-54-8	200-783-0	-	-

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### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

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### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form                      solid

### Safety data

pH	no data available
Melting point	94.0 - 96.0 °C (201.2 - 204.8 °F)
Boiling point	193.0 °C (379.4 °F) at 1.3 hPa (1.0 mmHg)
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	< 0.00001 hPa (< 0.00001 mmHg) at 25.0 °C (77.0 °F)
Density	1.38 g/cm <sup>3</sup>
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 6.02

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

LD50 Oral - Hamster - > 5,000 mg/kg

TDLo Oral - Human - 428.5 mg/kg

Remarks: Endocrine:Adrenal cortex hypoplasia.

TDLo Oral - rat - 6,000 mg/kg

Remarks: Cardiac:Other changes. Gastrointestinal:Other changes. Kidney, Ureter, Bladder:Changes in both tubules and glomeruli.

TDLo Oral - rat - 14 mg/kg

Remarks: Liver:Changes in liver weight. Endocrine:Estrogenic. Musculoskeletal:Other changes.

TDLo Oral - rat - 2,100 mg/kg

Remarks: Behavioral:Altered sleep time (including change in righting reflex).

LD50 Dermal - rabbit - 1,200 mg/kg

Remarks: Behavioral:Excitement. Behavioral:Convulsions or effect on seizure threshold. Skin irritation

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (GHS)**

no data available

**Specific target organ toxicity - repeated exposure (GHS)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion**

Toxic if swallowed.

**Skin**

Harmful if absorbed through skin. May cause skin irritation.



**Eyes** May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: KI0700000

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**12. ECOLOGICAL INFORMATION**

**Toxicity**

Toxicity to fish	LC50 - other fish - 1.18 - 9 mg/l - 96.0 h LC50 - Lepomis macrochirus (Bluegill) - 0.04 - 0.05 mg/l - 96.0 h LC50 - Oncorhynchus mykiss (rainbow trout) - 0.06 - 0.09 mg/l - 96.0 h LC50 - Pimephales promelas (fathead minnow) - 3.47 - 5.58 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia pulex (Water flea) - 0.01 mg/l - 48 h

**Persistence and degradability**

no data available

**Bioaccumulative potential**

Indication of bioaccumulation.

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

**13. DISPOSAL CONSIDERATIONS**

**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

UN-Number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solids, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)  
Reportable Quantity (RQ): 1 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)  
Marine pollutant: No

**IATA**

UN-Number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solid, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)

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## 15. REGULATORY INFORMATION

### OSHA Hazards

Toxic by ingestion, Harmful by skin absorption., Possible carcinogen.

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	CAS-No. 72-54-8
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### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard

### Massachusetts Right To Know Components

2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	CAS-No. 72-54-8	Revision Date
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### Pennsylvania Right To Know Components

2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	CAS-No. 72-54-8	Revision Date
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### New Jersey Right To Know Components

2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	CAS-No. 72-54-8	Revision Date
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### California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. 2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	CAS-No. 72-54-8	Revision Date
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## 16. OTHER INFORMATION

### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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Search

72-55-9 msds



MSDS 250,000+

MSDS : 2,2-Bis-(4-chlorophenyl)-1,1-dichloroethylene, 99%  
CAS : 72-55-9  
SYNONYMS : p,p'-DDE ; ethylene,1,1-dichloro-2,2-bis-(p-chlorophenyl)- ; DDT dehydrochloride ; DDE; 1-1'-(Dichloroethenylidene)bis(4-chlorobenzene)

[MSDS Safety Sheet](#)

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Catalog of Chemical Suppliers, Buyers, Custom Synthesis Companies And Equipment Manufacturers  
[ 2,2-Bis-(4-chlorophenyl)-1,1-dichloroethylene, 99% 72-55-9 ]

Suppliers:

Not Available

Buyers:

Not Available

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## \*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

```

+-----+-----+-----+-----+
| CAS# | Chemical Name | % | EINECS# |
+-----+-----+-----+-----+
| 72-55-9 | 2,2-Bis-(4-chlorophenyl)-1,1-dichloro- | 99 | 200-784-6 |
| ethylene | | |
+-----+-----+-----+-----+

```

Hazard Symbols: XN

Risk Phrases: 22 33

## \*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

## EMERGENCY OVERVIEW

Harmful if swallowed. Danger of cumulative effects.Cancer suspect agent.Possible risks of irreversible effects.

## Potential Health Effects

## Eye:

May cause eye irritation.

## Skin:

May cause skin irritation.

## Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed. Ingestion of large amounts may cause liver and/or kidney damage.

## Inhalation:

May cause respiratory tract irritation.

## Chronic:

May cause cancer according to animal studies. Adverse reproductive effects have been reported in animals. Laboratory experiments have resulted in mutagenic effects.

## \*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

## Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

## Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

## Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

## Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

## Notes to Physician:

Treat symptomatically and supportively.

## \*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire.

**Extinguishing Media:**

For large fires, use water spray, fog or regular foam. For small fires, use dry chemical, carbon dioxide, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out.

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

**Handling:**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Use with adequate ventilation.

**Storage:**

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

CAS# 72-55-9:

**Personal Protective Equipment**

**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

**Physical State:** Crystals

**Color:** white

**Odor:** None reported.

**pH:** Not available.

**Vapor Pressure:** 6.5106 mm Hg @ 20 C

**Viscosity:** Not available.

**Boiling Point:** 336 deg C

**Freezing/Melting Point:** 88.00 - 90.00 deg C

**Autoignition Temperature:** Not available.

**Flash Point:** Not available.

**Explosion Limits, lower:** Not available.

**Explosion Limits, upper:** Not available.

**Decomposition Temperature:**

**Solubility in water:** 0.010 ppm

**Specific Gravity/Density:**

**Molecular Formula:** C14H8Cl4

**Molecular Weight:** 318.02

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, dust generation, strong oxidants.

**Incompatibilities with Other Materials:**

Strong oxidizing agents - strong bases.

**Hazardous Decomposition Products:**

Hydrogen chloride, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

**RTECS#:**

CAS# 72-55-9: KV9450000

**LD50/LC50:**

CAS# 72-55-9: Oral, mouse: LD50 = 700 mg/kg; Oral, rat: LD50 = 880 mg/kg.

**Carcinogenicity:**

2,2-Bis-(4-chlorophenyl)-1,1-dichloroethylene -

California: carcinogen, initial date 1/1/89

## Other:

See actual entry in RTECS for complete information.

## \*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

## Ecotoxicity:

Estimated BCF value = 8,300 based on water solubility. Estimated Koc value = 8,300. There was no movement of DDE reported in soil column mobility experiments.

## \*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.

## \*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

## IATA

Not regulated as a hazardous material.

## IMO

Not regulated as a hazardous material.

## RID/ADR

Not regulated as a hazardous material.

USA RQ: CAS# 72-55-9: 1 lb final RQ; 0.454 kg final RQ

## \*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

## European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

## Risk Phrases:

R 22 Harmful if swallowed.

R 33 Danger of cumulative effects.

## Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 72-55-9: 3

## Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 72-55-9 is listed on Canada's Ingredient Disclosure List.

## US FEDERAL

## TSCA

CAS# 72-55-9 is not listed on the TSCA inventory.

It is for research and development use only.

## \*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 9/28/1998 Revision #3 Date: 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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Search More

72-55-9 msds

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## ALL MSDS PAGES IN THIS GROUP

NAME	CAS
<a href="#">M-Benzoyloxybenzyl Alcohol, 97%</a>	1700-30-7
<a href="#">Octaphenylcyclotetrasiloxane, 98%</a>	546-56-5
<a href="#">Cetylpyridinium chloride</a>	123-03-5
<a href="#">3,4-Difluorophenol, 99%</a>	2713-33-9
<a href="#">1-Benzyl-4-Hydroxypiperidine, 97%</a>	4727-72-4
<a href="#">4-tert-Butylbenzoyl chloride</a>	1710-98-1
<a href="#">Borane-morpholine complex, 97%</a>	4856-95-5
<a href="#">Benzyl Ether, 99%</a>	103-50-4
<a href="#">5-Amino-1-Naphthol (Pract)</a>	83-55-6
<a href="#">Pyridinium-P-Toluenesulfonate 98%</a>	24057-28-1
<a href="#">Pyrogallol Red, 98% (Titr.)</a>	32638-88-3
<a href="#">Amberlite ira 416</a>	9002-26-0
<a href="#">3-Methoxybenzotrile, 98%</a>	1527-89-5
<a href="#">1-Adamantanemethanol, 99%</a>	770-71-8
<a href="#">Inosine, 99%</a>	58-63-9
<a href="#">Pentafluoropropionic Acid</a>	422-64-0
<a href="#">Pyruvic Acid</a>	127-17-3
<a href="#">Potassium hydrogen fluoride, 99+%</a>	7789-29-9
<a href="#">Aluminum Nitride, 98% Particle Size &lt;10 Micron</a>	24304-00-5
<a href="#">Nickel(II) hydroxide, c.p., 60-61% Ni</a>	12054-48-7
<a href="#">1-Adamantanamine sulfate, 99%</a>	31377-23-8
<a href="#">S-(Thiobenzoyl)-Thioglycolic Acid, 97%</a>	942-91-6
<a href="#">N,N-Dimethyl-P-Nitroaniline</a>	100-23-2
<a href="#">Benzofuroxan</a>	480-96-6
<a href="#">cis-2-Aminomethyl-1-cyclohexanol hydrochloride, 99%</a>	24947-68-0
<a href="#">Silver Phosphate, 98% (Titr.)</a>	7784-09-0

<a href="#">4-Cyano-4-Phenylpiperidine Hydrochloride, 99% (TLC)</a>	51304-58-6
<a href="#">Methanesulfonamide</a>	3144-09-0
<a href="#">gamma-Octanoic lactone, 98%</a>	104-50-7
<a href="#">Cis,cis,cis-1,2,3,4-cyclopentane- tetracarboxylic dianhydride,</a>	4802-47-5
<a href="#">Tetrachloroethylene Carbonate, 98+%</a>	22432-68-4
<a href="#">Oxamic Acid, 98%</a>	471-47-6
<a href="#">1O,11-Dihydro-5H-Dibenzo(A,D)-Cycloheptene, 98%</a>	833-48-7
<a href="#">Thallium (I) Sulfate, 99.9+%</a>	7446-18-6
<a href="#">N-(2,6-Dimethylphenylcarbonyl-Methyl)-Iminodiacetic Acid, 99%</a>	59160-29-1
<a href="#">P-(Dimethylamino)cinnamic Acid, 99%</a>	1552-96-1
<a href="#">Biebrich Scarlet, 99% (UV-VIS)</a>	4196-99-0
<a href="#">4-Chlorobenzenediazonium hexafluoro- phosphate</a>	1582-27-0
<a href="#">Ammonium hexachloroiridate(IV), 99.99%</a>	16940-92-4
<a href="#">Methylamine-d2 deuteriochloride, 98+ atom % D</a>	593-51-1
<a href="#">2,2-Bis-(4-chlorophenyl)-1,1-dichloroethylene, 99%</a>	72-55-9
<a href="#">Nitro red</a>	56431-61-9
<a href="#">Methyl 2,3-dichlorobenzoate, 98+%</a>	2905-54-6
<a href="#">Isopropyl Bromoacetate, 98% (GC)</a>	29921-57-1
<a href="#">1-Iodo-4-Nitrobenzene, 99%</a>	636-98-6
<a href="#">4-Ethylcyclohexanol, 99% cis/trans mixture</a>	4534-74-1
<a href="#">Fluorescamine</a>	38183-12-9
<a href="#">Tris(2,2,6,6-Tetramethyl-3,5-Heptanedionato)Dysprosium(III), 99+%</a>	15522-69-7
<a href="#">3-Amino-2,2,5,5-Tetramethyl-1-Pyrrolidinyloxy, 99% (Titr.)</a>	34272-83-8
<a href="#">3,4-Dihydroxyphenylacetic Acid,98%</a>	102-32-9

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# International Chemical Safety Cards

DDT

ICSC: 0034



Dichlorodiphenyltrichloroethane  
 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane  
 2,2-bis(p-Chlorophenyl)-1,1,1-trichloroethane  
 1,1'-(2,2,2-Trichloroethylidene)bis(4-chlorobenzene)  
 p,p'-DDT  
 $C_{14}H_9Cl_5$   
 Molecular mass: 354.5



ICSC # 0034  
 CAS # 50-29-3  
 RTECS # [KJ3325000](#)  
 UN # 2761  
 EC # 602-045-00-7  
 April 20, 2004 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
<b>•INHALATION</b>	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
<b>•SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness.	Safety goggles, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Tremors. Diarrhoea. Dizziness. Headache. Vomiting. Numbness. Paresthesias. Hyperexcitability. Convulsions.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT let this chemical enter the environment. Sweep spilled substance into sealable non-metallic containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.	Provision to contain effluent from fire extinguishing. Separated from iron, aluminum and its salts, food and feedstuffs See Chemical Dangers.	Do not transport with food and feedstuffs. Severe marine pollutant. T symbol N symbol R: 25-40-48/25-50/53 S: 1/2-22-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0034

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

ICSC: 0034

DDT

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALS WHITE POWDER. TECHNICAL PRODUCT IS WAXY SOLID.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic and corrosive fumes including hydrogen chloride. Reacts with aluminium and iron.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 1 mg/m<sup>3</sup> as TWA A3 (ACGIH 2004). MAK: 1 mg/m<sup>3</sup> H Peak limitation category: II(8) (DFG 2003). OSHA PEL: TWA 1 mg/m<sup>3</sup> skin NIOSH REL: Ca TWA 0.5 mg/m<sup>3</sup> <a href="#">See Appendix A</a> NIOSH IDLH: Ca 500 mg/m<sup>3</sup> See: <a href="#">50293</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> May cause mechanical irritation. The substance may cause effects on the central nervous system, resulting in convulsions and respiratory depression. Exposure at high levels may result in death. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the central nervous system and liver. This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 260°C Melting point: 109°C Density: 1.6 g/cm<sup>3</sup></p>	<p>Solubility in water: poor Octanol/water partition coefficient as log Pow: 6.36</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to birds. Bioaccumulation of this chemical may occur along the food chain, for example in milk and aquatic organisms. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.</p>	
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## NOTES

<p>Depending on the degree of exposure, periodic medical examination is indicated. Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Consult national legislation. Agritan, Azotox, Anofex, Ixodex, Gesapon, Gesarex, Gesarol, Guesapon, Clofenotane, Zeidane, Dicophane, Neocid are trade names.</p>	<p>Transport Emergency Card: TEC (R)-61GT7-III</p>
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<p><b>ADDITIONAL INFORMATION</b></p>	

<p>ICSC: 0034</p>	<p>DDT</p>
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(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

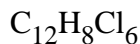
**ALDRIN**

ICSC: 0774



1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene  
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-,  
(1alpha,4alpha,4aβ,5alpha,8alpha,8aβ)

HHDN



Molecular mass: 364.9

ICSC # 0774

CAS # 309-00-2

RTECS # [IO2100000](#)

UN # 2761

EC # 602-048-00-3

March 26, 1998 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	
<b>•INHALATION</b>	(See Ingestion).	Ventilation (not if powder).	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! See Ingestion.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Safety goggles, or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Convulsions. Dizziness. Headache. Nausea. Vomiting. Muscle twitching.	Do not eat, drink, or smoke during work. Wash hands before eating.	Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting. Rest. Refer for medical attention.


SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: chemical protection suit including self-contained breathing apparatus).	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs and incompatible materials: See Chemical Dangers. Well closed. Keep in a well-ventilated room. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Severe marine pollutant. T symbol N symbol R: 24/25-40-48/24/25-50/53 S: 1/2-22-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

# International Chemical Safety Cards

ALDRIN

ICSC: 0774

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride. Reacts with acids and oxidants. Attacks many metals in presence of water.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.25 mg/m<sup>3</sup> (as TWA), A3 (skin) (ACGIH 1997). MAK: (Inhalable fraction) 0.25 mg/m<sup>3</sup>; skin absorption (H); Peak limitation category: II(8) (DFG 2006). OSHA PEL: TWA 0.25 mg/m<sup>3</sup> skin NIOSH REL: Ca TWA 0.25 mg/m<sup>3</sup> skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca 25 mg/m<sup>3</sup> See: <a href="#">309002</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the central nervous system, resulting in convulsions. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance accumulates in the human body. Cumulative effects are possible: see Acute Hazards/Symptoms.</p>
<b>PHYSICAL PROPERTIES</b>	Boiling point at 0.27kPa: 145°C Melting point: 104-105°C Density: 1.6 g/cm <sup>3</sup>	Solubility in water: none Vapour pressure, Pa at 20°C: 0.009 Octanol/water partition coefficient as log Pow: 7.4
<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to birds, honey bees. In the food chain important to humans, bioaccumulation takes place, specifically in aquatic organisms. It is strongly advised not to let the chemical enter into the environment because it persists in the environment. The substance may cause long-term effects in the aquatic environment. Avoid release to the environment in circumstances different to normal use.	
<b>NOTES</b>		
<p>Other melting points: 49-60°C (technical grade). Depending on the degree of exposure, periodic medical examination is indicated. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. The recommendations on this Card also apply to ICSC 0787 (dieldrin). Aldrec, Aldrex, Aldrite, Aldron, Aldrosol, Algran, Alttox, Drinox, Octalene, Seedrin, and Toxadrin are trade names.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61G41b.</p> <p style="text-align: right;">NFPA Code: H2; F0; R0;</p> <p style="text-align: center;">Card has been partially updated in August 2007: see Storage, Occupational Exposure Limits.</p>		
<b>ADDITIONAL INFORMATION</b>		
<b>ICSC: 0774</b>	(C) IPCS, CEC, 1994	<b>ALDRIN</b>

**IMPORTANT LEGAL**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject.

**NOTICE:**

The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## alpha-HEXACHLOROCYCLOHEXANE

ICSC: 0795



alpha-1,2,3,4,5,6-Hexachlorocyclohexane  
alpha-Benzenehexachloride (alpha-BHC)  
alpha-Hexachloran  
 $C_6H_6Cl_6$   
Molecular mass: 290.8

ICSC # 0795  
CAS # 319-84-6  
RTECS # [GV3500000](#)  
UN # 2761  
EC # 602-042-00-0  
November 25, 2009 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Risk of fire and explosion. if formulations contain flammable/explosive solvents		In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT! AVOID EXPOSURE OF BREASTFEEDING WOMEN!	
<b>•INHALATION</b>	Cough. Sore throat. See Ingestion.	Avoid inhalation of dust	Fresh air, rest. Seek medical attention if you feel unwell
<b>•SKIN</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Wear protective gloves when administering first aid. Remove contaminated clothes. Rinse and then wash skin with water and soap. Seek medical attention if you feel unwell
<b>•EYES</b>	Redness.	Face shield or eye protection in combination with breathing protection.	Rinse with plenty of water (remove contact lenses if easily possible).
<b>•INGESTION</b>	Headache. Nausea. Vomiting. Diarrhoea. Dizziness. Tremors. Convulsions.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink, NOT if convulsions occur. Refer immediately for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and particulates adapted to the airborne concentration of the substance, chemical protection suit including self-contained breathing apparatus, protective gloves. Do NOT let this chemical enter the environment. Sweep spilled substance into non-metallic, sealable containers; if	Well closed. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing. Separated from bases, metals, food and feedstuffs.	Do not transport with food and feedstuffs. Note: C T symbol N symbol R: 21-25-40-50/53 S: 1/2-22-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: III



appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.

Signal: Danger  
 Skull-Health haz-Enviro  
 Toxic if swallowed  
 May be harmful in contact with skin  
 Suspected of causing cancer  
 May cause harm to the breast-fed children  
 Causes damage to central nervous system  
 May cause damage to liver and kidney through prolonged or repeated exposure  
 Very toxic to aquatic life with long-lasting effects

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0795**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## alpha-HEXACHLOROCYCLOHEXANE

**ICSC: 0795**

<p><b>I M P O R T A N T  D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  BROWN , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b>                  The substance decomposes on contact with hot surfaces or flames, producing toxic and corrosive fumes including chlorine, hydrogen chloride and phosgene,</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV not established.                  MAK: (Inhalable fraction), 0.5 mg/m<sup>3</sup>;                  Peak limitation category: II(8);                  skin absorption (H); (DFG 2009).                  see Notes</p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b>                  A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance may cause effects on the central nervous system , resulting in convulsions</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The substance may have effects on the central nervous system, kidneys and liver. This substance is probably carcinogenic to humans.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 288°C Melting point: 157-160°C Density: 1.9 g/cm <sup>3</sup>	Solubility in water: (very poor) Vapour pressure, Pa at 20°C: 0.003 Relative vapour density (air = 1): 10 Octanol/water partition coefficient as log Pow: 3.8
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<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur along the food chain, for example in fish and in seafood. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.	
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**NOTES**

This substance is a component of the insecticide hexachlorocyclohexane (mixed isomers). Carrier solvents used in commercial formulations may change physical and toxicological properties. The symptoms of convulsions do not become manifest until 0.5 to several hours. Do NOT take working clothes home. Do NOT use in the vicinity of a fire or a hot surface, or during welding.

Occupational Exposure Limits : MAK value is for technical mixture of alpha and beta isomers (0.5 mg/m<sup>3</sup>=(Conc.alpha-HCH divided by 5) + Conc beta-HCH)

**ADDITIONAL INFORMATION**

**ICSC: 0795**

**alpha-HEXACHLOROCYCLOHEXANE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	α-Chlordane	
Product Number	:	442449	
Brand	:	Supelco	
Product Use	:	For laboratory research purposes.	
Supplier	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	Manufacturer : Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
Telephone	:	+1 800-325-5832	
Fax	:	+1 800-325-5052	
Emergency Phone # (For both supplier and manufacturer)	:	(314) 776-6555	
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956	

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant

##### GHS Classification

Acute toxicity, Inhalation (Category 4)  
Acute toxicity, Oral (Category 4)  
Acute toxicity, Dermal (Category 3)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Specific target organ toxicity - single exposure (Category 3)  
Acute aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H302 + H332	Harmful if swallowed or if inhaled.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER or doctor/ physician if you feel unwell.

**HMIS Classification**

**Health hazard:** 2  
**Flammability:** 0  
**Physical hazards:** 0

**NFPA Rating**

**Health hazard:** 2  
**Fire:** 0  
**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation** Toxic if inhaled. Causes respiratory tract irritation.  
**Skin** Toxic if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** Toxic if swallowed.

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Molecular Weight : 208.29 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Chlordane</b>			
5103-71-9	225-825-5	-	-

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**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form crystalline

Colour colourless

### Safety data

pH no data available

Melting/freezing point 93.0 - 94.0 °C (199.4 - 201.2 °F)

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Autoignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Vapour pressure no data available

Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas  
Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 500.0 mg/kg

#### Inhalation LC50

#### Dermal LD50

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.



## Reproductive toxicity

no data available

## Teratogenicity

no data available

## Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

## Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

## Aspiration hazard

no data available

## Potential health effects

<b>Inhalation</b>	Toxic if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	Toxic if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

## Synergistic effects

no data available

## Additional Information

RTECS: Not available

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 0.0074 mg/l - 96 h

### Persistence and degradability

no data available

### Bioaccumulative potential

Bioaccumulation Lepomis macrochirus (Bluegill) - 24 h  
Bioconcentration factor (BCF): 322

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

no data available

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

---

## 13. DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**  
Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Chlordane)  
Marine pollutant:  
Poison Inhalation Hazard: No

### IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlordane)  
Marine pollutant: Marine pollutant

### IATA

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Chlordane)

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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## 15. REGULATORY INFORMATION

### OSHA Hazards

Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Chlordane

CAS-No.  
5103-71-9

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

Chlordane

CAS-No.                      Revision Date  
5103-71-9

### New Jersey Right To Know Components

Chlordane

CAS-No.                      Revision Date  
5103-71-9

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 16. OTHER INFORMATION

### Further information

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

## beta-HEXACHLOROCYCLOHEXANE

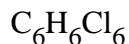
ICSC: 0796



1-alpha,2-beta,3-alpha,4-beta,5-alpha,6-beta-Hexachlorocyclohexane

beta-1,2,3,4,5,6-Hexachlorocyclohexane

beta-Benzenehexachloride (beta-BHC)



Molecular mass: 290.8

ICSC # 0796

CAS # 319-85-7

RTECS # [GV4375000](#)

UN # 2761

EC # 602-042-00-0

November 25, 2009 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Risk of fire and explosion if formulations contain flammable/explosive solvents		In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT! AVOID EXPOSURE OF BREASTFEEDING WOMEN!</b>	
<b>•INHALATION</b>	Cough. Sore throat. See Ingestion.	Avoid inhalation of dust	Fresh air, rest. Seek medical attention if you feel unwell.
<b>•SKIN</b>	<b>MAY BE ABSORBED!</b>	Protective gloves. Protective clothing.	Wear protective gloves when administering first aid. Remove contaminated clothes. Rinse and then wash skin with water and soap. Seek medical attention if you feel unwell
<b>•EYES</b>	Redness.	Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Headache. Nausea. Vomiting. Dizziness. Diarrhoea. Tremors. Convulsions.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink, NOT if convulsions occur. Refer immediately for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and particulates adapted to the airborne concentration of the substance, chemical protection suit including self-contained breathing apparatus, protective gloves. Do NOT let this chemical enter the environment. Sweep spilled substance into non-metallic, sealable containers; if appropriate, moisten first to prevent dusting.	Well closed. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing. Separated from bases, metals, food and feedstuffs.	Do not transport with food and feedstuffs. Note: C T symbol N symbol R: 21-25-40-50/53 S: 1/2-22-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: III Signal: Danger



Carefully collect remainder, then remove to safe place.

Skull-Health haz-Enviro  
 Toxic if swallowed  
 May be harmful in contact with skin  
 Suspected of causing cancer  
 May cause harm to the breast-fed children  
 May cause damage to central nervous system  
 May cause damage to liver and kidney through prolonged or repeated exposure if swallowed  
 Very toxic to aquatic life with long-lasting effects

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0796**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## beta-HEXACHLOROCYCLOHEXANE

**ICSC: 0796**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  WHITE CRYSTALLINE POWDER.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b>                  The substance decomposes on contact with hot surfaces or flames, producing toxic and corrosive fumes including chlorine, hydrogen chloride and phosgene,</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV not established.                  MAK: (Inhalable fraction) 0.5 mg/m<sup>3</sup>;                  Peak limitation category: II(8);                  skin absorption (H); (DFG 2009).                  (See Notes)</p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b>                  A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance may cause effects on the central nervous system resulting in convulsions</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The substance may have effects on the central nervous system, This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxic effects upon human reproduction.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point at 0.07kPa: 60°C                  Melting point: 309°C                  Density: 1.9 g/cm<sup>3</sup></p>	<p>Solubility in water: (very poor)                  Vapour pressure, Pa at 20°C: 0.7                  Octanol/water partition coefficient as log Pow: 3.8</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur along the food chain, for example in fish and in seafood. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.</p>	
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**NOTES**

This substance is a component of the insecticide hexachlorocyclohexane (isomer mixture). Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Do NOT use in the vicinity of a fire or a hot surface, or during welding.

Occupational Exposure Limits : MAK value is for technical mixture of alpha and beta isomers (0.5 mg/m<sup>3</sup>=(Conc.alpha-HCH divided by 5) + Conc beta-HCH)

**ADDITIONAL INFORMATION**

**ICSC: 0796**

**beta-HEXACHLOROCYCLOHEXANE**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

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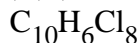
# International Chemical Safety Cards

## CHLORDANE (TECHNICAL PRODUCT)

ICSC: 0740



1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene  
1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene



Molecular mass: 409.8

ICSC # 0740

CAS # 57-74-9

RTECS #

UN # 2996

EC # 602-047-00-8

March 26, 1998 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Alcohol-resistant foam, powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS! STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	(See Ingestion).	Breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety goggles face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Confusion. Convulsions. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: chemical protection suit including self-contained breathing apparatus.	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs bases and incompatible materials See Chemical Dangers. Well closed. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Severe marine pollutant. Xn symbol N symbol R: 21/22-40-50/53 S: 2-36/37-60-61 UN Hazard Class: 6.1 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0740**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## CHLORDANE (TECHNICAL PRODUCT)

ICSC: 0740

<p><b>I M P O R T A N T A D V I S O R Y</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> TECHNICAL: LIGHT YELLOW TO AMBER VISCOUS LIQUID</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on burning, on contact with bases producing toxic fumes including phosgene hydrogen chloride Attacks iron, zinc, plastic, rubber and coatings.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 mg/m<sup>3</sup> as TWA (skin) A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: (Inhalable fraction) 0.5 mg/m<sup>3</sup> Peak limitation category: II(8); skin absorption (H); Carcinogen category: 3B; (DFG 2004). OSHA PEL: TWA 0.5 mg/m<sup>3</sup> skin NIOSH REL: Ca TWA 0.5 mg/m<sup>3</sup> skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca 100 mg/m<sup>3</sup> See: <a href="#">57749</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Exposure at high levels may result in disorientation, tremors, convulsions, respiratory failure and death. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver immune system, resulting in tissue lesions and liver impairment. This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point at 0.27kPa: 175°C Relative density (water = 1): 1.59-1.63 Solubility in water: none</p>	<p>Vapour pressure, Pa at 25°C: 0.0013 Octanol/water partition coefficient as log Pow: 2.78</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to soil organisms, honey bees. It is strongly advised that this substance does not enter the environment. The substance may cause long-term effects in the aquatic environment.</p>	
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### NOTES

If the substance is formulated with solvents also consult the ICSCs of these materials. Carrier solvents used in commercial formulations may change physical and toxicological properties. Belt, Chlor Kil, Chlortox, Corodan, Gold Crest, Intox, Kypchlor, Niran, Octachlor, Sydane, Synklor, Termi-Ded, Topiclör, and Toxichlor are trade names. Also consult ICSC 0743 Heptachlor.

Transport Emergency Card: TEC (R)-61GT6-III

### ADDITIONAL INFORMATION

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ICSC: 0740

CHLORDANE (TECHNICAL PRODUCT)

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: δ-BHC		
Product Number	: 48495		
Brand	: Supelco		
Product Use	: For laboratory research purposes.		
Supplier	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	Manufacturer	: Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
Telephone	: +1 800-325-5832		
Fax	: +1 800-325-5052		
Emergency Phone # (For both supplier and manufacturer)	: (314) 776-6555		
Preparation Information	: Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956		

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Carcinogen, Toxic by ingestion, Harmful by skin absorption.

##### Target Organs

Central nervous system Central nervous system

##### GHS Classification

Acute toxicity, Oral (Category 3)  
Acute toxicity, Dermal (Category 4)  
Carcinogenicity (Category 2)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P501	Dispose of contents/ container to an approved waste disposal plant.

#### HMIS Classification

Health hazard: 2  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0

**NFPA Rating**

Health hazard: 2  
Fire: 0  
Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** Toxic if swallowed.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : δ-1,2,3,4,5,6-Hexachlorocyclohexane  
Formula : C<sub>6</sub>H<sub>6</sub>Cl<sub>6</sub>  
Molecular Weight : 290.8 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane</b>			
319-86-8	206-272-9	602-042-00-0	-

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**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.



**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	solid
Colour	no data available

**Safety data**

pH	no data available
Melting/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available

Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 1,000 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity



This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

no data available

#### **Teratogenicity**

no data available

#### **Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

#### **Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

#### **Aspiration hazard**

no data available

#### **Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

#### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Synergistic effects**

no data available

#### **Additional Information**

RTECS: GV4550000

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## **12. ECOLOGICAL INFORMATION**

### **Toxicity**

Toxicity to fish LC50 - other fish - 2.83 mg/l - 96.0 h

### **Persistence and degradability**

no data available

**Bioaccumulative potential**

Bioaccumulation other fish - 33 d  
Bioconcentration factor (BCF): 326

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

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**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane)  
Reportable Quantity (RQ): 1 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane)  
Marine pollutant: No

**IATA**

UN-Number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane)

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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**15. REGULATORY INFORMATION****OSHA Hazards**

Carcinogen, Toxic by ingestion, Harmful by skin absorption.

**DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane

CAS-No.  
319-86-8

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	2007-03-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	2007-03-01

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	2007-03-01

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer.	319-86-8	1989-10-01

1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane

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**16. OTHER INFORMATION****Further information**

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

**DIELDRIN**

ICSC: 0787



1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-exo- 5,8-dimethanonaphthalene  
3,4,5,6,9,9-Hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2β,2aalpha,3β,6β,6aalpha,7β,7aalpha)-2,7,3,6-  
dimethanonaphth(2,3-b)oxirene

HEOD



Molecular mass: 380.9

ICSC # 0787

CAS # 60-57-1

RTECS # [IO1750000](#)

UN # 2761

EC # 602-049-00-9

March 26, 1998 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	
<b>•INHALATION</b>	(See Ingestion).	Ventilation (not if powder).	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! See Ingestion.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Safety goggles, or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Convulsions. Dizziness. Headache. Nausea. Vomiting. Muscle twitching.	Do not eat, drink, or smoke during work. Wash hands before eating.	Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: chemical protection suit including self-contained breathing apparatus).	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs and incompatible materials: See Chemical Dangers. Well closed. Keep in a well-ventilated room. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Severe marine pollutant. T+ symbol N symbol R: 25-27-40-48/25-50/53 S: 1/2-22-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**


# International Chemical Safety Cards

DIELDRIN

ICSC: 0787

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS CRYSTALS</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic fumes including hydrogen chloride. Reacts with oxidants and acids. Attacks metal due to the slow formation of hydrogen chloride in storage.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV (as TWA): 0.25 mg/m<sup>3</sup>, A4 (skin) (ACGIH 1997). MAK: (Inhalable fraction) 0.25 mg/m<sup>3</sup> ; Peak limitation category: II(8) skin absorption (H); (DFG 2007). OSHA PEL: TWA 0.25 mg/m<sup>3</sup> skin NIOSH REL: Ca TWA 0.25 mg/m<sup>3</sup> skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca 50 mg/m<sup>3</sup> See: <a href="#">60571</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the central nervous system, resulting in convulsions. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance accumulates in the human body. Cumulative effects are possible: see Acute Hazards/Symptoms.</p>
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<b>PHYSICAL PROPERTIES</b>	Melting point: 175-176°C Density: 1.7 g/cm <sup>3</sup> Solubility in water: none	Vapour pressure, Pa at 20°C: 0.0004 Octanol/water partition coefficient as log Pow: 6.2
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<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to honey bees, birds. In the food chain important to humans, bioaccumulation takes place, specifically in aquatic organisms. It is strongly advised not to let the chemical enter into the environment because it persists in the environment. The substance may cause long-term effects in the aquatic environment. Avoid release to the environment in circumstances different to normal use.	
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## NOTES

Depending on the degree of exposure, periodic medical examination is indicated. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Alvit, Dieldrex, Dieldrite, Illoxol, Octalox, Panoram, and Quintox are trade names. Also consult ICSC #0774, Aldrin.

Transport Emergency Card: TEC (R)-61G41b.

Card has been partially updated in August 2007: see Storage, Occupational Exposure Limits.

## ADDITIONAL INFORMATION

ICSC: 0787

DIELDRIN

(C) IPCS, CEC, 1994

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name :  $\alpha$ -Endosulfan

Product Number : 45468  
Brand : Fluka

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

Toxic by ingestion

#### GHS Label elements, including precautionary statements

Pictogram



Signal word : Danger

Hazard statement(s)

H301 : Toxic if swallowed.  
H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 : Avoid release to the environment.  
P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P501 : Dispose of contents/ container to an approved waste disposal plant.

#### HMIS Classification

Health hazard: 2  
Flammability: 0  
Physical hazards: 0

#### NFPA Rating

Health hazard: 2  
Fire: 0  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** : May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** : May cause eye irritation.  
**Ingestion** : Toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula :  $C_9H_6Cl_6O_3S$   
Molecular Weight : 406.93 g/mol



CAS-No.	EC-No.	Index-No.	Concentration
<b>Endosulfan (<math>\alpha</math> isomer)</b>			
959-98-8	-	-	-

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#### 4. FIRST AID MEASURES

##### General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

---

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

##### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

---

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

##### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

---

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

##### Personal protective equipment

###### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	crystalline
Colour	white

**Safety data**

pH	no data available
Melting point	108.0 - 110.0 °C (226.4 - 230.0 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	insoluble

---

**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

no data available

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Hydrogen chloride gas

---

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 76.0 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

### **Carcinogenicity**

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

no data available

### **Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

### **Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

### **Aspiration hazard**

no data available

### **Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

### **Additional Information**

RTECS: RB9275100

---

## **12. ECOLOGICAL INFORMATION**

### **Toxicity**

### **Persistence and degradability**

### **Bioaccumulative potential**

Bioaccumulation	other fish - 21 d
	Bioconcentration factor (BCF): 10,994

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

---

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **Contaminated packaging**

Dispose of as unused product.

---

## **14. TRANSPORT INFORMATION**

**DOT (US)**

UN-Number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solids, organic, n.o.s.  
Reportable Quantity (RQ): 1 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.  
Marine pollutant: No

**IATA**

UN-Number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solid, organic, n.o.s.

---

**15. REGULATORY INFORMATION****OSHA Hazards**

Toxic by ingestion

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

	CAS-No.
Endosulfan ( $\alpha$ isomer)	959-98-8

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Endosulfan ( $\alpha$ isomer)	959-98-8	1993-04-24

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Endosulfan ( $\alpha$ isomer)	959-98-8	1993-04-24

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Endosulfan ( $\alpha$ isomer)	959-98-8	1993-04-24

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

**16. OTHER INFORMATION****Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : beta-Endosulfan

Product Number : 33385  
Brand : Fluka

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Toxic by ingestion

##### Target Organs

Central nervous system, Eyes, Blood, Liver, Kidney

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H301

Toxic if swallowed.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273

Avoid release to the environment.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P501

Dispose of contents/container to an approved waste disposal plant.

#### HMIS Classification

Health hazard:

2

Chronic Health Hazard:

\*

Flammability:

0

Physical hazards:

0

#### NFPA Rating

Health hazard:

2

Fire:

0

Reactivity Hazard:

0

#### Potential Health Effects

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Ingestion**

Toxic if swallowed.



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>9</sub>H<sub>6</sub>Cl<sub>6</sub>O<sub>3</sub>S  
Molecular Weight : 406.9 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>beta-Endosulfan</b>			
33213-65-9	-	-	-

---

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Hand protection

Handle with gloves.





carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (GHS)**

no data available

**Specific target organ toxicity - repeated exposure (GHS)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: RB9875200

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**12. ECOLOGICAL INFORMATION**

**Toxicity**

Toxicity to fish	LC50 - other fish - 0.0066 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	LC50 - Daphnia magna (Water flea) - > 0.1 - < 1 mg/l - 48 h

**Persistence and degradability**

**Bioaccumulative potential**

Bioaccumulation	other fish - 21 d
	Bioconcentration factor (BCF): 9,908

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

---

**13. DISPOSAL CONSIDERATIONS**

**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

UN-Number: 2811 Class: 6.1 Packing group: II  
 Proper shipping name: Toxic solids, organic, n.o.s. (beta-Endosulfan)  
 Reportable Quantity (RQ): 1 lbs  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A  
 Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (beta-Endosulfan)  
 Marine pollutant: No

**IATA**

UN-Number: 2811 Class: 6.1 Packing group: II  
 Proper shipping name: Toxic solid, organic, n.o.s. (beta-Endosulfan)

**15. REGULATORY INFORMATION****OSHA Hazards**

Toxic by ingestion

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

beta-Endosulfan	CAS-No. 33213-65-9
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**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

beta-Endosulfan	CAS-No. 33213-65-9	Revision Date 1993-04-24
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**Pennsylvania Right To Know Components**

beta-Endosulfan	CAS-No. 33213-65-9	Revision Date 1993-04-24
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**New Jersey Right To Know Components**

beta-Endosulfan	CAS-No. 33213-65-9	Revision Date 1993-04-24
-----------------	-----------------------	-----------------------------

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION****Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Endosulfan sulfate	
Product Number	:	48580	
Brand	:	Supelco	
Product Use	:	For laboratory research purposes.	
Supplier	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	Manufacturer : Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
Telephone	:	+1 800-325-5832	
Fax	:	+1 800-325-5052	
Emergency Phone # (For both supplier and manufacturer)	:	(314) 776-6555	
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956	

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Highly toxic by ingestion

##### GHS Classification

Acute toxicity, Oral (Category 2)

Acute aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H300 Fatal if swallowed.

H400 Very toxic to aquatic life.

Precautionary statement(s)

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

##### HMIS Classification

Health hazard: 3

Chronic Health Hazard: \*

Flammability: 0

Physical hazards: 0

##### NFPA Rating

Health hazard: 3

Fire: 0

Reactivity Hazard: 0

## Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be fatal if swallowed.

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>9</sub>H<sub>6</sub>Cl<sub>6</sub>O<sub>4</sub>S C<sub>9</sub>H<sub>6</sub>Cl<sub>6</sub>O<sub>4</sub>S  
Molecular Weight : 422.92 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Endosulfan sulfate</b>			
1031-07-8	-	-	-

---

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	solid
Colour	no data available

### Safety data

pH	no data available
Melting/freezing point	179.0 - 182.0 °C (354.2 - 359.6 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: 3.66
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available



Evaporation rate no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 18.0 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

no data available

### Teratogenicity

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be fatal if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites., Headache, Nausea, Vomiting, Dizziness, Drowsiness, Confusion., Weakness, Muscle cramps/spasms., Change in pupil size., Fever, Seizures., Incoordination., Convulsions, Coma.

**Synergistic effects**

no data available

**Additional Information**

RTECS: RB9150000

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish	LC50 - Carassius auratus (goldfish) - > 0.01 - < 0.1 mg/l - 48.0 h
	LC50 - Leuciscus idus (Golden orfe) - > 0.01 - < 0.1 mg/l - 48.0 h
	LC50 - other fish - > 0.001 - < 0.01 mg/l - 48.0 h
Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 0.76 mg/l - 48 h
	LC50 - Daphnia magna (Water flea) - > 0.1 - < 1 mg/l - 48 h

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 2811 Class: 6.1 Packing group: II  
 Proper shipping name: Toxic solids, organic, n.o.s. (Endosulfan sulfate)  
 Reportable Quantity (RQ): 1 lbs  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A  
 Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Endosulfan sulfate)  
 Marine pollutant: No

**IATA**

UN-Number: 2811 Class: 6.1 Packing group: II  
 Proper shipping name: Toxic solid, organic, n.o.s. (Endosulfan sulfate)

---

**15. REGULATORY INFORMATION****OSHA Hazards**

Highly toxic by ingestion

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Endosulfan sulfate	CAS-No. 1031-07-8
--------------------	----------------------

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

Endosulfan sulfate	CAS-No. 1031-07-8	Revision Date 2007-03-01
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**Pennsylvania Right To Know Components**

Endosulfan sulfate	CAS-No. 1031-07-8	Revision Date 2007-03-01
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**New Jersey Right To Know Components**

Endosulfan sulfate	CAS-No. 1031-07-8	Revision Date 2007-03-01
--------------------	----------------------	-----------------------------

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

**16. OTHER INFORMATION****Further information**

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 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# International Chemical Safety Cards

**ENDRIN**

ICSC: 1023



$C_{12}H_8Cl_6O$   
Molecular mass: 380.9

ICSC # 1023  
CAS # 72-20-8  
RTECS # [IO1575000](#)  
UN # 2761  
EC # 602-051-00-X  
March 10, 2000 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR!
• <b>INHALATION</b>	(See Ingestion).	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	MAY BE ABSORBED! (See Ingestion).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
• <b>EYES</b>		Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Dizziness. Weakness. Headache. Nausea. Vomiting. Convulsions.	Do not eat, drink, or smoke during work. Wash hands before eating.	Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: chemical protection suit including self-contained breathing apparatus).	Separated from food and feedstuffs . Well closed. Keep in a well-ventilated room. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.	Do not transport with food and feedstuffs. Severe marine pollutant. T+ symbol N symbol R: 24-28-50/53 S: 1/2-22-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: I

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1023**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# ENDRIN

ICSC: 1023

<p><b>I M P O R T A N T A D V I S I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE CRYSTALS .</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating above 245°C, producing hydrogen chloride , phosgene .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.1 mg/m<sup>3</sup> as TWA; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2008). MAK: 0.1 mg/m<sup>3</sup> (Inhalable fraction); Peak limitation category: II(8); skin absorption (H); Pregnancy risk group: C; (DFG 2008). OSHA PEL: TWA 0.1 mg/m<sup>3</sup> skin NIOSH REL: TWA 0.1 mg/m<sup>3</sup> skin NIOSH IDLH: 2 mg/m<sup>3</sup> See: <a href="#">72208</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the central nervous system , resulting in convulsions and death. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Decomposes below boiling point at 245°C Melting point: 200°C Density: 1.7 g/cm<sup>3</sup></p>	<p>Solubility in water, g/100 ml at 25°C: none Vapour pressure, Pa at 25°C: negligible Octanol/water partition coefficient as log Pow: 5.34</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to honey bees , birds and mammals . It is strongly advised not to let the chemical enter into the environment because it persists in the environment. In the food chain important to humans, bioaccumulation takes place, specifically in fish and seafood . Avoid release to the environment in circumstances different to normal use.</p>	
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**NOTES**

If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home.

Transport Emergency Card: TEC (R)-61G41a

NFPA Code: H3; F0; R; 0

Card has been partially updated in November 2008: see Occupational Exposure Limits, Storage.

**ADDITIONAL INFORMATION**

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<p><b>ICSC: 1023</b></p>	<p><b>ENDRIN</b></p>
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(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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## Material Safety Data Sheet

Version 4.1

Revision Date 01/17/2011

Print Date 12/09/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Endrin aldehyde

Product Number : 442578

Brand : Supelco

Product Use : For laboratory research purposes.

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Manufacturer : Sigma-Aldrich Corporation  
3050 Spruce St.  
St. Louis, Missouri 63103  
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Toxic by ingestion

##### GHS Classification

Acute toxicity, Oral (Category 4)

Chronic aquatic toxicity (Category 4)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H413

May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

none

##### HMIS Classification

Health hazard: 2

Flammability: 0

Physical hazards: 0

##### NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

##### Potential Health Effects

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**  
**Ingestion**

May cause eye irritation.  
Toxic if swallowed.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight : 380.89 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Endrin aldehyde</b>			
7421-93-4	-	-	-

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### 4. FIRST AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	solid
Colour	no data available

### Safety data

pH	no data available
Melting/freezing point	151.0 °C (303.8 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: 5.60
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available



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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas  
Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 500.0 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

no data available

### Teratogenicity

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

no data available

**Additional Information**

RTECS: Not available

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**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

no data available

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**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION****OSHA Hazards**

Toxic by ingestion

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Endrin aldehyde	CAS-No. 7421-93-4
-----------------	----------------------

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Endrin aldehyde	CAS-No. 7421-93-4	Revision Date
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**New Jersey Right To Know Components**

Endrin aldehyde	CAS-No. 7421-93-4	Revision Date
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION****Further information**

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Endrin ketone

Product Number : 442579  
Brand : Supelco

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Molecular Weight : 41.05 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Endrin ketone</b>			
53494-70-5	-	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Flammable Liquid, Highly toxic by ingestion

**HMIS Classification**

Health Hazard: 3

Flammability: 3

Physical hazards: 0

**NFPA Rating**

Health Hazard: 3

Fire: 3

Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation. May be fatal if absorbed through skin.

**Eyes** May cause eye irritation.

**Ingestion** May be fatal if swallowed.

**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point 2.0 °C (35.6 °F) - closed cup

Ignition temperature 523 °C (973 °F)

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

### Safety data

pH	no data available
Melting point	-48.0 °C (-54.4 °F)
Boiling point	81.0 - 82.0 °C (177.8 - 179.6 °F)
Flash point	2.0 °C (35.6 °F) - closed cup
Ignition temperature	523 °C (973 °F)
Lower explosion limit	4.4 %(V)
Upper explosion limit	16 %(V)
Vapour pressure	97.1 hPa (72.8 mmHg) at 20.0 °C (68.0 °F)
Density	0.78 g/cm <sup>3</sup>
Water solubility	no data available

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides



## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 10.0 mg/kg

### Irritation and corrosion

no data available

no data available

### Sensitisation

no data available

### Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation. May be fatal if absorbed through skin.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be fatal if swallowed.

### Additional Information

RTECS: PC8600000

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 1,640.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 3,600.00 mg/l - 48 h

### Further information on ecology

no data available

## 13. DISPOSAL CONSIDERATIONS

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 2810 Class: 6.1 Packing group: II  
 Proper shipping name: Toxic, liquids, organic, n.o.s. (Endrin ketone)  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2810 Class: 6.1 Packing group: II EMS-No: F-A, S-A  
 Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Endrin ketone)  
 Marine pollutant: No

**IATA**

UN-Number: 2810 Class: 6.1 Packing group: II  
 Proper shipping name: Toxic liquid, organic n.o.s. (Endrin ketone)

**15. REGULATORY INFORMATION****OSHA Hazards**

Flammable Liquid, Highly toxic by ingestion

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Endrin ketone	CAS-No. 53494-70-5
---------------	-----------------------

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Endrin ketone	CAS-No. 53494-70-5	Revision Date 1990-01-01
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**New Jersey Right To Know Components**

Endrin ketone	CAS-No. 53494-70-5	Revision Date 1990-01-01
---------------	-----------------------	-----------------------------

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION**

**Further information**

Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# International Chemical Safety Cards

**LINDANE**

ICSC: 0053



gamma-1,2,3,4,5,6-Hexachlorocyclohexane  
 gamma-BHC  
 gamma-HCH  
 $C_6H_6Cl_6$   
 Molecular mass: 290.8

ICSC # 0053  
 CAS # 58-89-9  
 RTECS # [GV4900000](#)  
 UN # 2761  
 EC # 602-043-00-6  
 November 25, 2009 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Risk of fire and explosion if formulations contain flammable/explosive solvents.		In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		AVOID ALL CONTACT! AVOID EXPOSURE OF BREASTFEEDING WOMEN!	
<b>•INHALATION</b>	Cough. Sore throat. Further see Ingestion.	Avoid inhalation of dust	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Wear protective gloves when administering first aid. Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	Redness.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Nausea. Vomiting. Diarrhoea. Headache. Dizziness. Tremor. Convulsions.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink, but NOT if convulsions occur. Refer immediately for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and particulates adapted to the airborne concentration of the substance, chemical protection suit including self-contained breathing apparatus, protective gloves. Do NOT let this chemical enter the environment. Sweep spilled substance into	Well closed. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing. Separated from bases, metals, food and feedstuffs.	Do not transport with food and feedstuffs. Note: C T symbol N symbol R: 20/21-25-48/22-64-50/53 S: 1/2-36/37-45-60-61 UN Hazard Class: 6.1

non-metallic, sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.

UN Packing Group: III  
 Signal: Danger  
 Skull-Health haz-Enviro  
 Toxic if swallowed  
 Toxic in contact with skin  
 Harmful if inhaled dust  
 Suspected of causing cancer  
 May cause harm to breast-fed children  
 Causes damage to central nervous system  
 May cause damage to nervous system, bone marrow and liver through prolonged or repeated exposure  
 Very toxic to aquatic life with long lasting effects

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 0053**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**LINDANE**

**ICSC: 0053**

<p><b>I M P O R T A N T A D V I S I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b>                  WHITE CRYSTALLINE POWDER .</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b>                  On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes including chlorine, hydrogen chloride and phosgene (See ICSCs #0007, #0126 and #0163.) Reacts with bases , producing trichlorobenzene , and with powdered metals .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  OSHA PEL: TWA 0.5 mg/m<sup>3</sup> skin                  NIOSH REL: TWA 0.5 mg/m<sup>3</sup> skin                  NIOSH IDLH: 50 mg/m<sup>3</sup> See: <a href="#">58899</a>                  TLV: 0.5 mg/m<sup>3</sup> as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2009).                  MAK: 0.1 mg/m<sup>3</sup>; (Inhalable fraction);                  Peak limitation category: II(8);                  skin absorption (H);                  Carcinogen category: 4; Pregnancy risk group: C;                  BAT issued;                  (DFG 2009).</p>	<p><b>ROUTES OF EXPOSURE:</b>                  The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion. 507</p> <p><b>INHALATION RISK:</b>                  A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The substance may cause effects on the central nervous system , resulting in convulsions. Exposure may result in death. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The substance may have effects on the the nervous system, bone marrow and the liver . Tumours have been detected in experimental animals but may not be relevant to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development. tter size in 2nd generation mice in mice when given orally (<a href="http://monographs.iarc.fr/ENG/Monographs/suppl7/Suppl7-88.pdf">http://monographs.iarc.fr/ENG/Monographs/suppl7/Suppl7-88.pdf</a>)</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 323°C                  Melting point: 113°C                  Density: 1.9 g/cm<sup>3</sup>                  Solubility in water, g/100 ml at 20°C: 0.0007 (very poor)</p>	<p>Vapour pressure, Pa at 20°C: 0.0012                  Relative density of the vapour/air-mixture at 20°C (air = 1): 1                  Octanol/water partition coefficient as log Pow: 3.61-3.72</p>
<p><b>ENVIRONMENTAL</b></p>	<p>The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur along the food chain, for example in fish and in seafood. The substance may cause long-term effects in the</p> 	

<b>DATA</b>	aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.
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<b>NOTES</b>
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Depending on the degree of exposure, periodic medical examination is suggested. Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Do NOT use in the vicinity of a fire or a hot surface, or during welding. See also ICSC #0487 Hexachlorocyclohexane (mixed isomers), #0795 alpha-Hexachlorocyclohexane, #0796 beta-Hexachlorocyclohexane .

<b>ADDITIONAL INFORMATION</b>
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<b>ICSC: 0053</b>	(C) IPCS, CEC, 1994	<b>LINDANE</b>
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<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : GAMMA-CHLORDANE

Product Number : 442599  
Brand : Supelco

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

Harmful by ingestion., Carcinogen

#### GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H302 : Harmful if swallowed.  
H351 : Suspected of causing cancer.  
H400 : Very toxic to aquatic life.

Precautionary statement(s)

P273 : Avoid release to the environment.  
P281 : Use personal protective equipment as required.

#### HMIS Classification

Health hazard: 1  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0

#### NFPA Rating

Health hazard: 1  
Fire: 0  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** : Harmful if absorbed through skin. May cause skin irritation.  
**Eyes** : May cause eye irritation.  
**Ingestion** : Harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C10H6Cl8

Molecular Weight : 409.76 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>trans-Chlordane</b>			
5103-74-2	225-826-0	-	-

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#### 4. FIRST AID MEASURES

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

##### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

##### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

##### Personal protective equipment

###### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	crystalline
Colour	white
Odour	odourless

**Safety data**

pH	no data available
Melting point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.590 g/cm <sup>3</sup>
Water solubility	insoluble

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**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

no data available

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 1,100 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available



**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

Limited evidence of carcinogenicity in animal studies

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Additional Information**

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**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish LC50 - *Lepomis macrochirus* - 0.05 mg/l - 96 h

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

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**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 Marine pollutant: Marine pollutant

**IATA**

UN-Number: 3077 Class: 9 Packing group: III  
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

**15. REGULATORY INFORMATION****OSHA Hazards**

Harmful by ingestion., Carcinogen

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

trans-Chlordane	CAS-No. 5103-74-2
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**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

trans-Chlordane	CAS-No. 5103-74-2	Revision Date
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**New Jersey Right To Know Components**

trans-Chlordane	CAS-No. 5103-74-2	Revision Date
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION****Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

## HEPTACHLOR

ICSC: 0743



1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene  
 1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene  
 3,4,5,6,8,8a-Heptachlorodicyclopentadiene  
 $C_{10}H_5Cl_7$

Molecular mass: 373.3

ICSC # 0743  
 CAS # 76-44-8  
 RTECS # [PC0700000](#)  
 UN # 2761  
 EC # 602-046-00-2  
 July 05, 2003 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!	
• <b>INHALATION</b>	Convulsions. Tremor.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	MAY BE ABSORBED! (See Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
• <b>EYES</b>		Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	(See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: Chemical protection suit including self-contained breathing apparatus. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, metals, food and feedstuffs. Well closed. Keep in a well-ventilated room. Dry. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Severe marine pollutant. T symbol N symbol R: 24/25-33-40-50/53 S: 1/2-36/37-45-60-61 UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the

ICSC: 0743

OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## HEPTACHLOR

ICSC: 0743

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> WHITE CRYSTALS OR TAN WAXY SOLID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating above 160°C producing toxic fumes including hydrogen chloride . Reacts with strong oxidants . Attacks metal.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.05 mg/m<sup>3</sup> as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: 0.05 mg/m<sup>3</sup> (Inhalable fraction); Peak limitation category: II(8); skin absorption (H); Carcinogen category: 4; Pregnancy risk group: D (DFG 20089). OSHA PEL: TWA 0.5 mg/m<sup>3</sup> skin NIOSH REL: Ca TWA 0.5 mg/m<sup>3</sup> skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca 35 mg/m<sup>3</sup> See: <a href="#">76448</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of dusts from powder concentrates, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the central nervous system .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver . This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Decomposes below boiling point at 160°C Melting point: 95-96°C Density: 1.6 g/cm<sup>3</sup></p>	<p>Solubility in water: none Vapour pressure, Pa at 25°C: 0.053 Octanol/water partition coefficient as log Pow: 5.27-5.44</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur along the food chain, for example in fish and in milk. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.</p>	
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### NOTES

Other melting points: 46-74°C for the technical product. Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Depending on the degree of exposure, periodic medical examination is suggested.

Transport Emergency Card: TEC (R)-61GT7-II

Card has been partially updated in October 2005: see Occupational Exposure Limits, Emergency Response.  
Card has been partially updated in April 2010: see Occupational Exposure Limits, Storage.

### ADDITIONAL INFORMATION

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ICSC: 0743

HEPTACHLOR

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH</p>
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values.



### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Heptachlor epoxide

Product Number : 49042  
Brand : Supelco

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Highly toxic by ingestion, Carcinogen

##### Target Organs

Central nervous system, Liver, Blood

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H300 Fatal if swallowed.  
H351 Suspected of causing cancer.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### HMIS Classification

Health hazard: 3  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0

#### NFPA Rating

Health hazard: 3  
Fire: 0  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**  
**Ingestion**

May cause eye irritation.  
May be fatal if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Heptachlor exo-epoxide  
HCE  
exo-1,4,5,6,7,8,8-Heptachloro-2,3-epoxy-4,7-methano-3a,4,7,7a-tetrahydroindane

Formula : C<sub>10</sub>H<sub>5</sub>Cl<sub>7</sub>O

Molecular Weight : 389.32 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Heptachlor epoxide</b>			
1024-57-3	213-831-0	602-063-00-5	-

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### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form                      solid

### Safety data

pH	no data available
Melting point	157.0 - 161.0 °C (314.6 - 321.8 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 5.40

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

LD50 Oral - rat - 15.0 mg/kg

LD50 Oral - mouse - 39.0 mg/kg

LD50 Oral - rabbit - 144.0 mg/kg

LD50 Intracerebral - mouse - 8 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold.

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be fatal if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: PB9450000

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.02 mg/l - 96.0 h  
Toxicity to daphnia and other aquatic invertebrates. LC50 - Daphnia magna (Water flea) - 0.24 mg/l - 48 h

### Persistence and degradability

no data available

### Bioaccumulative potential

Bioaccumulation Pimephales promelas (fathead minnow) - 32 d  
Bioconcentration factor (BCF): 14,400

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

---

## 13. DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 2811 Class: 6.1 Packing group: II  
Proper shipping name: Toxic solids, organic, n.o.s. (Heptachlor epoxide)  
Reportable Quantity (RQ): 1 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

### IMDG

UN-Number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Heptachlor epoxide)  
Marine pollutant: No

### IATA

UN-Number: 2811 Class: 6.1 Packing group: II  
Proper shipping name: Toxic solid, organic, n.o.s. (Heptachlor epoxide)

---

## 15. REGULATORY INFORMATION

### OSHA Hazards

Highly toxic by ingestion, Carcinogen

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Heptachlor epoxide

CAS-No.  
1024-57-3



**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Heptachlor epoxide	1024-57-3	1994-04-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Heptachlor epoxide	1024-57-3	1994-04-01

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Heptachlor epoxide	1024-57-3	1994-04-01

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Heptachlor epoxide	1024-57-3	2007-09-28

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**16. OTHER INFORMATION****Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

## METHOXYCHLOR

ICSC: 1306



1,1-(2,2,2-Trichloroethylidene)bis(4-methoxybenzene)  
 1,1,1-Trichloro-2,2-bis(p-methoxyphenyl)ethane  
 Dimethoxy-DDT  
 $C_{16}H_{15}Cl_3O_2$   
 Molecular mass: 345.7

ICSC # 1306

CAS # 72-43-5

RTECS # [KJ3675000](#)

March 26, 1999 Validated

La, ntry of chemistry data: 25-11-1998.

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
<b>•INHALATION</b>	See Ingestion.	Local exhaust or breathing protection.	Fresh air, rest.
<b>•SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>		Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Convulsions. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P2 filter respirator for harmful particles.	Separated from food and feedstuffs . Well closed. Keep in a well-ventilated room.	Do not transport with food and feedstuffs.

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 1306

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the


# International Chemical Safety Cards

## METHOXYCHLOR

ICSC: 1306

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> COLOURLESS TO LIGHT YELLOW CRYSTALS , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating and on burning producing toxic and corrosive gases including hydrogen chloride (see ICSC 0163). Reacts with oxidants . Attacks some plastics and rubber.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 mg/m<sup>3</sup> as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004). MAK: (Inhalable fraction) 15 mg/m<sup>3</sup>; Peak limitation category: II(8); Pregnancy risk group: D; (DFG 2004). OSHA PEL<sup>+</sup>: TWA 15 mg/m<sup>3</sup> NIOSH REL: Ca <a href="#">See Appendix A</a> NIOSH IDLH: Ca 5000 mg/m<sup>3</sup> See: <a href="#">72435</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the liver, kidneys, central nervous system, when ingested in large amounts. Animal tests show that this substance possibly causes toxic effects upon human reproduction.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Melting point: 89°C Density: 1.4 g/cm<sup>3</sup></p>	<p>Solubility in water: none Vapour pressure: negligible Octanol/water partition coefficient as log Pow: 4.68-5.08</p>
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<b>ENVIRONMENTAL DATA</b>	<p>The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.</p>	
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### NOTES

Temperature of decomposition unknown in literature. Depending on the degree of exposure, periodic medical examination is suggested. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Maralate, Marlata, Metox, Prentox, Methoxicide are trade names. See also ICSC0034 for DDT. Card has been partly updated in April 2005. See section Occupational Exposure Limits.

### ADDITIONAL INFORMATION

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ICSC: 1306

METHOXYCHLOR

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 2,4'-DDD

Product Number : 35485  
Brand : Fluka

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For : (314) 776-6555  
both supplier and  
manufacturer)

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

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**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Target Organ Effect, Carcinogen

**Target Organs**

Central nervous system, Adrenal cortex.

**GHS Classification**

Carcinogenicity (Category 2)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

Hazard statement(s)

H351

Suspected of causing cancer.

Precautionary statement(s)

P281

Use personal protective equipment as required.

**HMIS Classification****Health hazard:** 0**Chronic Health Hazard:** \***Flammability:** 0**Physical hazards:** 0**NFPA Rating****Health hazard:** 0**Fire:** 0**Reactivity Hazard:** 0**Potential Health Effects****Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Mitotane  
o,p'-DDD  
1-(2-Chlorophenyl)-1-(4-chlorophenyl)-2,2-dichloroethane  
(2,4'-Dichlorodiphenyl)dichloroethane

Formula : C<sub>14</sub>H<sub>10</sub>Cl<sub>4</sub>  
Molecular Weight : 320.04 g/mol

Component		Concentration
<b>Mitotane</b>		
CAS-No.	53-19-0	-
EC-No.	200-166-6	-

---

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.



### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	crystalline
Colour	white

### Safety data

pH	no data available
Melting point/freezing point	Melting point/range: 77 - 78 °C (171 - 172 °F) - lit.
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available

Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents, Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas  
Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - > 5,000 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Mitotane)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or



anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

no data available

#### **Teratogenicity**

no data available

#### **Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

#### **Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

#### **Aspiration hazard**

no data available

#### **Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

#### **Synergistic effects**

no data available

#### **Additional Information**

RTECS: KH7880000

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## **12. ECOLOGICAL INFORMATION**

#### **Toxicity**

no data available

#### **Persistence and degradability**

no data available

#### **Bioaccumulative potential**

no data available

#### **Mobility in soil**

no data available

#### **PBT and vPvB assessment**

no data available

#### **Other adverse effects**

no data available

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## **13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION****OSHA Hazards**

Target Organ Effect, Carcinogen

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Mitotane	53-19-0	2009-07-17

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Mitotane	53-19-0	2009-07-17

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION****Further information**

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# International Chemical Safety Cards

**PARATHION**

ICSC: 0006



O,O-Diethyl-O-(4-nitrophenyl)phosphorothioate  
 Phosphorothioic acid O,O-diethyl O-(4-nitrophenyl) ester  
 Ethyl parathion  
 $(C_2H_5O)_2PSOC_6H_4NO_2$   
 Molecular mass: 291.3

ICSC # 0006  
 CAS # 56-38-2  
 RTECS # [TF4550000](#)  
 UN # 3018  
 EC # 015-034-00-1  
 April 22, 2004 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire. Liquid formulations containing organic solvents may be flammable.	NO open flames.	Water spray, dry powder, carbon dioxide.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS! STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Pupillary constriction, muscle cramp, excessive salivation. Sweating. Nausea. Vomiting. Dizziness. Headache. Convulsions. Diarrhoea. Weakness. Laboured breathing. Wheezing. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>	MAY BE ABSORBED! Redness. Pain. Blurred vision.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal cramps. Diarrhoea. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Give a slurry of activated charcoal in water to drink. Refer for medical attention. See Notes.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Collect leaking and spilled liquid in sealable containers as far as possible. Treat remaining liquid with an alkaline substance. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs. Well closed. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Severe marine pollutant. T+ symbol N symbol R: 24-26/28-48/25-50/53 S: 1/2-28-36/37-45-60-61

chemical enter the environment. Personal protection: chemical protection suit including self-contained breathing apparatus.

UN Hazard Class: 6.1  
UN Packing Group: I

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0006**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## PARATHION

**ICSC: 0006**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> PALE YELLOW TO BROWN (TECHNICAL PRODUCT) LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating above 200°C, producing toxic gases including carbon monoxide , nitrogen oxides , phosphorous oxides and sulfur oxides . Reacts with strong oxidants. Attacks some forms of plastics, rubber and coatings.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: (I,V) 0.05 mg/m<sup>3</sup>; A4; BEI issued; (skin); (ACGIH 2004). MAK: (I) 0.1 mg/m<sup>3</sup>; H; Peak limitation category: II (8); Pregnancy risk group: D; (DFG 2003). OSHA PEL: TWA 0.1 mg/m<sup>3</sup> skin NIOSH REL: TWA 0.05 mg/m<sup>3</sup> skin NIOSH IDLH: 10 mg/m<sup>3</sup> See: <a href="#">56382</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin, by ingestion and through the eyes.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance may cause effects on the nervous system , resulting in convulsions, respiratory failure, muscle weakness. Cholinesterase inhibition. Exposure may result in death. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Cholinesterase inhibitor; cumulative effect is possible: see acute hazards/symptoms.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 375°C Melting point: 6°C Relative density (water = 1): 1.26	Solubility in water, g/100 ml at 25°C: 0.002 Flash point: 120°C Octanol/water partition coefficient as log Pow: 3.8
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<b>ENVIRONMENTAL DATA</b>	The substance is very toxic to aquatic organisms. This substance may be hazardous in the environment; special attention should be given to birds. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is indicated. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. If the substance is formulated with solvents also consult the ICSCs of these materials. Carrier solvents used in commercial formulations may change physical and toxicological properties. The odour warning when the exposure limit value is exceeded is insufficient. Do NOT take working clothes home.

Transport Emergency Card: TEC (R)-61GT6-I

**ADDITIONAL INFORMATION**

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**ICSC: 0006**

**PARATHION**

(C) IPCS, CEC, 1994

**IMPORTANT  
LEGAL  
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



# International Chemical Safety Cards

## CAMPHECHLOR

ICSC: 0843



Toxaphene  
 Chlorinated camphene (60%)  
 Polychlorocamphene  
 $C_{10}H_{10}Cl_8$  (approx•)  
 Molecular mass: 413.8 (average)

ICSC # 0843  
 CAS # 8001-35-2  
 RTECS # [XW5250000](#)  
 UN # 2761  
 EC # 602-044-00-1  
 November 04, 1997 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		Foam, powder, carbon dioxide. NO water.
<b>EXPLOSION</b>	The explosion hazard will depend on the solvent used in the formulation.		In case of fire: keep drums, etc., cool by spraying with water but NO direct contact with water.
<b>EXPOSURE</b>		STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR!
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>	MAY BE ABSORBED! Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness.	Safety goggles, or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Convulsions. Dizziness. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Give a slurry of activated charcoal in water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into sealable containers. Carefully collect remainder, then remove to safe place.	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Keep in the dark.	Do not transport with food and feedstuffs. Marine pollutant. T symbol N symbol R: 21-25-37/38-40-50/53 S: 1/2-36/37-45-60-61 UN Hazard Class: 6.1

**SEE IMPORTANT INFORMATION ON BACK**



**ICSC: 0843**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**CAMPHECHLOR**

**ICSC: 0843**

<b>I M P O R T A N T D A T A</b>	<b>PHYSICAL STATE; APPEARANCE:</b> YELLOW TO AMBER WAXY SOLID , WITH CHARACTERISTIC ODOUR.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body through the skin, by ingestion.
	<b>PHYSICAL DANGERS:</b>	<b>INHALATION RISK:</b>
	<b>CHEMICAL DANGERS:</b> The substance decomposes on heating, on burning and/or under influence of alkali, strong sunlight, and catalysts like iron producing toxic fumes. Attacks iron. Incompatible with strongly alkaline pesticides.	<b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates mildly the skin. The substance may cause effects on the central nervous system , resulting in tremors and convulsions. Exposure at high level may result in death.
	<b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 mg/m <sup>3</sup> as TWA; 1 mg/m <sup>3</sup> as STEL; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2008). MAK: skin absorption (H); Carcinogen category: 2 (DFG 2008). OSHA PEL <sup>†</sup> : TWA 0.5 mg/m <sup>3</sup> skin NIOSH REL: Ca skin <a href="#">See Appendix A</a> NIOSH IDLH: Ca 200 mg/m <sup>3</sup> See: <a href="#">8001352</a>	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> This substance is possibly carcinogenic to humans.

<b>PHYSICAL PROPERTIES</b>	Melting point: 65-90°C Relative density (water = 1): 1.65 Solubility in water: None	Vapour pressure, Pa at 25°C: 53 Relative vapour density (air = 1): 14.3 Octanol/water partition coefficient as log Pow: 3.3
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<b>ENVIRONMENTAL DATA</b>	This substance may be hazardous to the environment; special attention should be given to water organisms, some terrestrial species, and birds. In the food chain important to humans, bioaccumulation takes place, specifically in aquatic species.	
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**NOTES**

Decomposes near boiling point. Camphechlor is a reaction mixture of chlorinated camphenes containing 67-69% chlorine. Use of this organochlorine pesticide should be discouraged, except where there is no adequate alternative. Depending on the degree of exposure, periodic medical examination is indicated. Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Alltox, Chem-Phene, M 5055, Clor Chem T-590, Crestoxo, Estonox, Fasco-Terpene, Geniphene, Gy-phene, Hercules 3956, Melipex, Penphene, Phenacide, Phenatox, Strobane-T, Toxakil, Toxyphene, Toxon 63 are trade names.

Transport Emergency Card: TEC (R)-61G53b

Card has been partially updated in November 2008: see Occupational Exposure Limits, EU Classification, Packaging & labelling.

**ADDITIONAL INFORMATION**

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**ICSC: 0843**

**CAMPHECHLOR**

(C) IPCS, CEC, 1994

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH
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values.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Aroclor 1016

Product Number : 48591  
Brand : Supelco

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

No known OSHA hazards

##### GHS Classification

Acute toxicity, Oral (Category 5)  
Specific target organ toxicity - repeated exposure (Category 2)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H303 May be harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.  
P501 Dispose of contents/ container to an approved waste disposal plant.

##### HMIS Classification

Health hazard: 1  
Flammability: 0  
Physical hazards: 0

##### NFPA Rating

Health hazard: 0  
Fire: 0  
Reactivity Hazard: 0

## Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
<b>Aroclor 1016</b>			
12674-11-2	-	602-039-00-4	-

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## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIRE-FIGHTING MEASURES

### Conditions of flammability

Not flammable or combustible.

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available

Evaporation rate no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.  
Other decomposition products - no data available

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 2,300 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

Reproductive toxicity - rat - Oral

Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - Monkey - Oral

Effects on Newborn: Behavioral.

Reproductive toxicity - Mammal - Oral



Effects on Fertility: Other measures of fertility Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

no data available

### Teratogenicity

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Central nervous system.

no data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard

no data available

### Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

### Synergistic effects

no data available

### Additional Information

RTECS: Not available

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.0010 mg/l - 96.0 h

### Persistence and degradability

Biodegradability Biotic/Aerobic Biochemical oxygen demand

### Bioaccumulative potential

Bioaccumulation *Pimephales promelas* (fathead minnow) -  
Bioconcentration factor (BCF): 42,500

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

---

## 13. DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid  
Reportable Quantity (RQ): 1 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

### IMDG

UN number: 2315 Class: 9 Packing group: II EMS-No: F-A, S-A  
Proper shipping name: POLYCHLORINATED BIPHENYLS, LIQUID  
Marine pollutant: No

### IATA

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid

---

## 15. REGULATORY INFORMATION

### OSHA Hazards

No known OSHA hazards

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

No SARA Hazards

### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Aroclor 1016	12674-11-2	1993-04-24

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Aroclor 1016	12674-11-2	1993-04-24

### New Jersey Right To Know Components

	CAS-No.	Revision Date
Aroclor 1016	12674-11-2	1993-04-24

### California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Aroclor 1016	12674-11-2	2008-08-01

### California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Aroclor 1016	12674-11-2	2008-08-01

---

## 16. OTHER INFORMATION

### Further information

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Aroclor 1221

Product Number : 48587  
Brand : Supelco

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Target Organ Effect

##### Target Organs

Nerves.Nerves.

##### GHS Classification

Specific target organ toxicity - repeated exposure (Category 2)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H373

May cause damage to organs through prolonged or repeated exposure.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273

Avoid release to the environment.

P501

Dispose of contents/ container to an approved waste disposal plant.

#### HMIS Classification

Health hazard: 0

Chronic Health Hazard: \*

Flammability: 0

Physical hazards: 0

#### NFPA Rating

Health hazard: 0

Fire: 0

**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS-No.	EC-No.	Index-No.	Concentration
<b>PCB - Aroclor 1221</b>			
11104-28-2	-	602-039-00-4	-

---

**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

**5. FIRE-FIGHTING MEASURES**

**Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.



### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available



Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.  
Other decomposition products - no data available

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 3,980 mg/kg

#### Inhalation LC50

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

### Serious eye damage/eye irritation

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

Reproductive toxicity - rabbit - Oral

Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - rat - Subcutaneous

Maternal Effects: Uterus, cervix, vagina.

Reproductive toxicity - rat - Subcutaneous

Effects on Fertility: Other measures of fertility

no data available

### **Teratogenicity**

no data available

### **Specific target organ toxicity - single exposure (Globally Harmonized System)**

### **Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

May cause damage to organs through prolonged or repeated exposure.

no data available

### **Aspiration hazard**

no data available

### **Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Synergistic effects**

no data available

### **Additional Information**

RTECS: Not available

---

## **12. ECOLOGICAL INFORMATION**

### **Toxicity**

Toxicity to fish LC50 - *Oncorhynchus clarki* - 1.17 mg/l - 96.0 h

### **Persistence and degradability**

Biodegradability Biotic/Aerobic Biochemical oxygen demand  
Result: 100 % - Readily biodegradable.

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

no data available

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## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

### **Contaminated packaging**

Dispose of as unused product.

---

## **14. TRANSPORT INFORMATION**

**DOT (US)**

UN number: 2315 Class: 9 Packing group: II  
 Proper shipping name: Polychlorinated biphenyls, liquid  
 Reportable Quantity (RQ): 1 lbs  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

UN number: 2315 Class: 9 Packing group: II EMS-No: F-A, S-A  
 Proper shipping name: POLYCHLORINATED BIPHENYLS, LIQUID  
 Marine pollutant: No

**IATA**

UN number: 2315 Class: 9 Packing group: II  
 Proper shipping name: Polychlorinated biphenyls, liquid

**15. REGULATORY INFORMATION****OSHA Hazards**

Target Organ Effect

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
PCB - Aroclor 1221	11104-28-2	1993-04-24

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
PCB - Aroclor 1221	11104-28-2	1993-04-24

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
PCB - Aroclor 1221	11104-28-2	1993-04-24

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. PCB - Aroclor 1221	11104-28-2	2008-08-01

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. PCB - Aroclor 1221	11104-28-2	2008-08-01

**16. OTHER INFORMATION****Further information**

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 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Aroclor 1232

Product Number : 48588  
Brand : Supelco

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

No known OSHA hazards

##### GHS Classification

Acute toxicity, Oral (Category 5)  
Acute aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H303 : May be harmful if swallowed.  
H400 : Very toxic to aquatic life.

Precautionary statement(s)

P273 : Avoid release to the environment.

#### HMIS Classification

Health hazard: 1  
Flammability: 0  
Physical hazards: 0

#### NFPA Rating

Health hazard: 0  
Fire: 0  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** : May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** : May cause eye irritation.

Ingestion

May be harmful if swallowed.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
<b>Aroclor 1232</b>			
11141-16-5	-	602-039-00-4	-

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### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available

Evaporation rate no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - no data available

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 4,470 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

no data available

### Teratogenicity

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

Ingestion - May cause damage to organs through prolonged or repeated exposure. - Skin

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

chloracne, hair loss, hyperpigmentation, Liver injury may occur., May cause endocrine disruption.

**Synergistic effects**

no data available

**Additional Information**

RTECS: Not available

---

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish	LC50 - Onchorhynchus clarki - 1.72 mg/l - 96.0 h
Toxicity to algae	Growth inhibition EC50 - Thalassiosira rotula - 0.071 mg/l - 44 h

**Persistence and degradability**

Biodegradability	Biotic/Aerobic Result: 100 % - Readily biodegradable.
------------------	--

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

---

**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION****DOT (US)**

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid  
Reportable Quantity (RQ): 1 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No



**IMDG**

UN number: 2315 Class: 9 Packing group: II EMS-No: F-A, S-A  
Proper shipping name: POLYCHLORINATED BIPHENYLS, LIQUID  
Marine pollutant: No

**IATA**

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid

---

**15. REGULATORY INFORMATION****OSHA Hazards**

No known OSHA hazards

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Aroclor 1232	11141-16-5	1993-04-24

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Aroclor 1232	11141-16-5	1993-04-24

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Aroclor 1232	11141-16-5	1993-04-24

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

**16. OTHER INFORMATION****Further information**

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Aroclor 1242

Product Number : 48585  
Brand : Supelco

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

No known OSHA hazards

##### GHS Classification

Acute toxicity, Oral (Category 5)  
Specific target organ toxicity - repeated exposure (Category 1)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H303 May be harmful if swallowed.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.  
P314 Get medical advice/ attention if you feel unwell.  
P501 Dispose of contents/ container to an approved waste disposal plant.

##### HMIS Classification

Health hazard: 1  
Flammability: 0  
Physical hazards: 0

##### NFPA Rating

Health hazard: 0  
Fire: 0  
Reactivity Hazard: 0

## Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
<b>Aroclor 1242</b>			
53469-21-9	-	602-039-00-4	-

---

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIRE-FIGHTING MEASURES

### Conditions of flammability

Not flammable or combustible.

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Aroclor 1242	53469-21-9	TWA	1 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Eye irritation Liver damage Chloracne Danger of cutaneous absorption			
		TWA	1 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Skin designation			
		TWA	1 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
	Skin notation			
		TWA	0.001 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
	Potential Occupational Carcinogen See Appendix A			

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid  
Colour no data available

### Safety data

pH no data available  
Melting point/freezing point no data available  
Boiling point no data available

Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 4,250 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Chromodacryorrhea. Diarrhoea  
Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

### Germ cell mutagenicity

no data available

### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

no data available

### Teratogenicity

no data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Causes damage to organs through prolonged or repeated exposure.

no data available

### Aspiration hazard

no data available

### Potential health effects

- |                   |   |
|-------------------|---|
| <b>Inhalation</b> | May be harmful if inhaled. May cause respiratory tract irritation.  |
| <b>Ingestion</b>  | May be harmful if swallowed.  |
| <b>Skin</b>       | May be harmful if absorbed through skin. May cause skin irritation. |
| <b>Eyes</b>       | May cause eye irritation.   |

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Synergistic effects

no data available

### Additional Information

RTECS: Not available

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

- |  |   |
|--|---|
| Toxicity to fish                                     | LC50 - Pimephales promelas (fathead minnow) - 0.015 mg/l - 96 h |
| Toxicity to daphnia and other aquatic invertebrates. | LC50 - Daphnia magna (Water flea) - 0.23 mg/l - 48 h            |
| Toxicity to algae                                    | LC50 - Algae - 0.006 mg/l - 28 h                                |

### Persistence and degradability

- Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable.  
Remarks: no data available

### Bioaccumulative potential



Bioaccumulation Pimephales promelas (fathead minnow) - 8.5 Months  
Bioconcentration factor (BCF): 274,000

**Mobility in soil**  
no data available

**PBT and vPvB assessment**  
no data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid (Aroclor 1242)  
Reportable Quantity (RQ): 1 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN number: 2315 Class: 9 Packing group: II EMS-No: F-A, S-A  
Proper shipping name: POLYCHLORINATED BIPHENYLS, LIQUID (Aroclor 1242)  
Marine pollutant: No

**IATA**

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid (Aroclor 1242)

---

**15. REGULATORY INFORMATION**

**OSHA Hazards**

No known OSHA hazards

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

Aroclor 1242	CAS-No. 53469-21-9	Revision Date 1993-04-24
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**Pennsylvania Right To Know Components**

Aroclor 1242	CAS-No. 53469-21-9	Revision Date 1993-04-24
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**New Jersey Right To Know Components**

Aroclor 1242	CAS-No. 53469-21-9	Revision Date 1993-04-24
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**California Prop. 65 Components**

WARNING! This product contains a chemical known to the State of California to cause cancer.  
Aroclor 1242

CAS-No.  
53469-21-9

Revision Date  
2008-08-01

**California Prop. 65 Components**

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
Aroclor 1242

CAS-No.  
53469-21-9

Revision Date  
2008-08-01

---

**16. OTHER INFORMATION****Further information**

Copyright 2011 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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## Material Safety Data Sheet

Version 4.1  
Revision Date 01/13/2011  
Print Date 12/09/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Aroclor 1248

Product Number : 48589  
Brand : Supelco  
Product Use : For laboratory research purposes.

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Manufacturer : Sigma-Aldrich Corporation  
3050 Spruce St.  
St. Louis, Missouri 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Target Organ Effect

##### Target Organs

LiverLiver

##### GHS Classification

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 : Avoid release to the environment.

P501 : Dispose of contents/ container to an approved waste disposal plant.

##### HMIS Classification

Health hazard: 0

Flammability: 0

Physical hazards: 0

##### NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0



## Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
<b>Aroclor 1248</b>			
12672-29-6	-	-	-

---

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.  
Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 11,000 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

Reproductive toxicity - Monkey - Oral

Maternal Effects: Menstrual cycle changes or disorders.

Reproductive toxicity - Monkey - Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Reproductive toxicity - Monkey - Oral

Effects on Fertility: Abortion.

Reproductive toxicity - Monkey - Oral



Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral. Effects on Newborn: Other postnatal measures or effects.

no data available

#### **Teratogenicity**

Developmental Toxicity - rabbit - Oral

Specific Developmental Abnormalities: Immune and reticuloendothelial system.

no data available

#### **Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

#### **Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

#### **Aspiration hazard**

no data available

#### **Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

#### **Signs and Symptoms of Exposure**

Nausea, Dizziness, Headache, muscle pain, muscle weakness, neck stiffness, trunk stiffness, stiffness of extremities, thick feeling in the tongue, Thirst

#### **Synergistic effects**

no data available

#### **Additional Information**

RTECS: Not available

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## **12. ECOLOGICAL INFORMATION**

### **Toxicity**

Toxicity to fish	LC50 - <i>Lepomis macrochirus</i> - 0.278 mg/l - 96.0 h
Toxicity to algae	Growth inhibition EC50 - <i>Thalassiosira rotula</i> - 0.02 mg/l - 44 h

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

Bioaccumulation	<i>Pimephales promelas</i> (fathead minnow) - 250 d Bioconcentration factor (BCF): 120,000
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### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

no data available

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## **13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 2315 Class: 9 Packing group: II  
 Proper shipping name: Polychlorinated biphenyls, liquid (Aroclor 1248)  
 Reportable Quantity (RQ): 1 lbs  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2315 Class: 9 Packing group: II EMS-No: F-A, S-A  
 Proper shipping name: POLYCHLORINATED BIPHENYLS, LIQUID (Aroclor 1248)  
 Marine pollutant: Marine pollutant

**IATA**

UN-Number: 2315 Class: 9 Packing group: II  
 Proper shipping name: Polychlorinated biphenyls, liquid (Aroclor 1248)

**15. REGULATORY INFORMATION****OSHA Hazards**

Target Organ Effect

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Aroclor 1248	CAS-No. 12672-29-6
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**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

**Massachusetts Right To Know Components**

Aroclor 1248	CAS-No. 12672-29-6	Revision Date 1993-04-24
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**Pennsylvania Right To Know Components**

Aroclor 1248	CAS-No. 12672-29-6	Revision Date 1993-04-24
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**New Jersey Right To Know Components**

Aroclor 1248	CAS-No. 12672-29-6	Revision Date 1993-04-24
--------------	-----------------------	-----------------------------

**California Prop. 65 Components**

WARNING! This product contains a chemical known to the State of California to cause cancer. Aroclor 1248	CAS-No. 12672-29-6	Revision Date 2008-08-01
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**California Prop. 65 Components**

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Aroclor 1248	CAS-No. 12672-29-6	Revision Date 2008-08-01
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## 16. OTHER INFORMATION

### **Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

## POLYCHLORINATED BIPHENYL (AROCLOR 1254)

ICSC: 0939



Chlorobiphenyl (54% chlorine)  
Chlorodiphenyl (54% chlorine)  
PCB  
Molecular mass: 327 (average)

ICSC # 0939  
CAS # 11097-69-1  
RTECS # [TQ1360000](#)  
UN # 2315  
EC # 602-039-00-4  
October 20, 1999 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: powder, carbon dioxide.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT GENERATION OF MISTS! STRICT HYGIENE!	
<b>•INHALATION</b>		Ventilation.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Dry skin. Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Safety goggles, face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Headache. Numbness.	Do not eat, drink, or smoke during work.	Rest. Refer for medical attention.
SPILLAGE DISPOSAL		STORAGE	PACKAGING & LABELLING
Consult an expert! Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.		Separated from food and feedstuffs . Cool. Dry. Keep in a well-ventilated room.	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Severe marine pollutant. Note: C Xn symbol N symbol R: 33-50/53 S: 2-35-60-61 UN Hazard Class: 9 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0939**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## POLYCHLORINATED BIPHENYL (AROCLOR 1254)

ICSC: 0939

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> LIGHT YELLOW VISCOUS LIQUID.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes in a fire producing irritating and toxic gases .</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 mg/m<sup>3</sup> as TWA; (skin); A3; (ACGIH 2004). MAK: 0.05 ppm, 0.70 mg/m<sup>3</sup>; H; Peak limitation category: II(8); Carcinogen category: 3B; Pregnancy risk group: B; (DFG 2004). OSHA PEL: TWA 0.5 mg/m<sup>3</sup> skin NIOSH REL*: Ca TWA 0.001 mg/m<sup>3</sup> See <a href="#">Appendix A</a> *Note: The REL also applies to other PCBs. NIOSH IDLH: Ca 5 mg/m<sup>3</sup> See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20° C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. Chloracne is the most visible effect. The substance may have effects on the liver . Animal tests show that this substance possibly causes toxic effects upon human reproduction.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Relative density (water = 1): 1.5 Solubility in water: none</p>	<p>Vapour pressure, Pa at 25°C: 0.01 Octanol/water partition coefficient as log Pow: 6.30 (estimated)</p>
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<b>ENVIRONMENTAL DATA</b>	<p>In the food chain important to humans, bioaccumulation takes place, specifically in aquatic organisms. It is strongly advised not to let the chemical enter into the environment.</p>	
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### NOTES

Changes into a resinous state (pour point) at 10°C. Distillation range: 365°-390°C. Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-90GM2-II-L

### ADDITIONAL INFORMATION

<b>ICSC: 0939</b>	<b>POLYCHLORINATED BIPHENYL (AROCLOR 1254)</b> (C) IPCS, CEC, 1994
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<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Aroclor 1262

Product Number : 442463  
Brand : Supelco

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For : (314) 776-6555  
both supplier and  
manufacturer)

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8956

---

**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Carcinogen

**GHS Classification**

Carcinogenicity (Category 1B)

Specific target organ toxicity - repeated exposure (Category 2)

Acute aquatic toxicity (Category 3)

Chronic aquatic toxicity (Category 3)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H350

May cause cancer.

H373

May cause damage to organs through prolonged or repeated exposure.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201

Obtain special instructions before use.

P273

Avoid release to the environment.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

**HMIS Classification**

Health hazard: 0

Chronic Health Hazard: \*

Flammability: 0

Physical hazards: 0

**NFPA Rating**

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
<b>PCB - Aroclor 1262</b>			
37324-23-5	-	602-039-00-4	-

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### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### 5. FIRE-FIGHTING MEASURES

#### Conditions of flammability

Not flammable or combustible.

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.



### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available

Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.  
Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 11,300 mg/kg

#### Inhalation LC50

no data available

#### Dermal LD50

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

Carcinogen

Possible human carcinogen

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.



OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

no data available

### Teratogenicity

no data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

May cause damage to organs through prolonged or repeated exposure.

no data available

### Aspiration hazard

no data available

### Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Synergistic effects

no data available

### Additional Information

RTECS: TQ1364000

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - *Oncorhynchus clarki* - 50 mg/l - 96 h

### Persistence and degradability

Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable.  
Remarks: no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

---

**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION****DOT (US)**

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid  
Reportable Quantity (RQ):  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN number: 2315 Class: 9 Packing group: II EMS-No: F-A, S-A  
Proper shipping name: POLYCHLORINATED BIPHENYLS, LIQUID  
Marine pollutant: No

**IATA**

UN number: 2315 Class: 9 Packing group: II  
Proper shipping name: Polychlorinated biphenyls, liquid

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**15. REGULATORY INFORMATION****OSHA Hazards**

Carcinogen

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
PCB - Aroclor 1262	37324-23-5	1989-08-11

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
PCB - Aroclor 1262	37324-23-5	1989-08-11

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. PCB - Aroclor 1262	37324-23-5	2008-08-01

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. PCB - Aroclor 1262	37324-23-5	2008-08-01

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## 16. OTHER INFORMATION

### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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# International Chemical Safety Cards

## ALUMINIUM OXIDE

ICSC: 0351



alpha-Aluminum oxide  
 Alumina  
 Aluminum trioxide  
 $\text{Al}_2\text{O}_3$   
 Molecular mass: 101.9

ICSC # 0351

CAS # 1344-28-1

RTECS # [BD1200000](#)

February 10, 2000 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water. (Extra personal protection: P1 filter respirator for inert particles).		

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 0351

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## ALUMINIUM OXIDE

ICSC: 0351

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> WHITE POWDER.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol.
<b>M</b>	<b>PHYSICAL DANGERS:</b>	

<b>P O R T A N T D A T A</b>	<p><b>CHEMICAL DANGERS:</b></p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV: 10 mg/m<sup>3</sup> (as TWA) A4, for particulate matter containing no asbestos and &lt; 1% crystalline silica (ACGIH 2000).                  MAK: 1.5 mg/m<sup>3</sup> (Respirable fraction) 4 mg/m<sup>3</sup> (Inhalable fraction)                  Pregnancy risk group: D (DFG 2006).                  OSHA PEL ‡: TWA 15 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp)                  NIOSH REL: <a href="#">See Appendix D</a>                  NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>INHALATION RISK:</b>                  Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  Inhalation of high concentrations of dusts of this substance may cause eyes and upper respiratory tract irritation.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The substance may have effects on the central nervous system .</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 3000°C Melting point: 2054°C Density: 3.97 g/cm <sup>3</sup>	Solubility in water: none
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<b>ENVIRONMENTAL DATA</b>	
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**NOTES**

There is a different and hard crystalline form of aluminium oxide which occurs abundantly in nature under the name corundum (CAS 1302-74-5). Other melting points: 2015°C (approx.) (corundum). Occurs also as the minerals: bauxite, bayerite, boehmite, diaspore, gibbsite. Card has been partly updated in October 2006. See section Occupational Exposure Limits.

**ADDITIONAL INFORMATION**

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<b>ICSC: 0351</b>	<b>ALUMINIUM OXIDE</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

## ANTIMONY

**ICSC: 0775**


Antimony black  
Antimony regulus  
Stibium  
Sb  
Atomic mass: 121.8

ICSC # 0775  
CAS # 7440-36-0  
RTECS # [CC4025000](#)  
UN # 2871  
October 12, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with oxidants, halogens, acid(s).	water spray, foam, powder, carbon dioxide
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air. Risk of fire and explosion on contact with .	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Cough. (See Ingestion).	Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Vomiting. Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention if you feel unwell.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>
Personal protection: P2 filter respirator for harmful particles. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting.		Separated from oxidants , acids, halogens , food and feedstuffs.	Do not transport with food and feedstuffs. UN Hazard Class: 6.1 UN Packing Group: III
<b>SEE IMPORTANT INFORMATION ON BACK</b>			
<b>ICSC: 0775</b>		Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## ANTIMONY

**ICSC: 0775**



<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> SILVER-WHITE, LUSTROUS, HARD, BRITTLE LUMPS OR DARK GRAY POWDER</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> On combustion, forms toxic fumes (antimony oxides; see ICSC 0012). Reacts violently with oxidants, , causing fire and explosion hazard. On contact with acids may emit toxic gas (stibine; see ICSC 0776).</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.5 mg/m<sup>3</sup> as TWA (ACGIH 2006). MAK: Carcinogen category: 2; Germ cell mutagen group: 3B (DFG 2006). OSHA PEL*: TWA 0.5 mg/m<sup>3</sup> *Note: The PEL also applies to other antimony compounds (as Sb). NIOSH REL*: TWA 0.5 mg/m<sup>3</sup> *Note: The REL also applies to other antimony compounds (as Sb). NIOSH IDLH: 50 mg/m<sup>3</sup> (as Sb) See: <a href="#">7440360</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> May cause mechanical irritation to the eyes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis, especially when exposed to fumes. The substance may have effects on the lungs , resulting in pneumoconiosis.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 1635 °C Melting point: 630 °C Density: 6.7 g/cm <sup>3</sup>	Solubility in water: none
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<b>ENVIRONMENTAL DATA</b>	
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**NOTES**

Other boiling points: 1325°C, 1440°C, 1587 °C, 1750°C. The recommendations on this card apply only to metallic antimony. See ICSC 0012 antimony trioxide, ICSC 1224 antimony trichloride, ICSC 0220 antimony pentafluoride and ICSC 0776 antimony trihydride.  
 Transport Emergency Card: TEC (R)-61GT5-III

**ADDITIONAL INFORMATION**

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<b>ICSC: 0775</b>	<b>ANTIMONY</b>
(C) IPCS, CEC, 1994	

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# International Chemical Safety Cards

ARSENIC

ICSC: 0013



Grey arsenic  
As  
Atomic mass: 74.9

ICSC # 0013  
CAS # 7440-38-2  
RTECS # [CG0525000](#)  
UN # 1558  
EC # 033-001-00-X

October 18, 1999 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with strong oxidizers. NO contact with hot surfaces.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Risk of fire and explosion is slight when exposed to hot surfaces or flames in the form of fine powder or dust.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Cough. Sore throat. Shortness of breath. Weakness. See Ingestion.	Closed system and ventilation.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>•EYES</b>	Redness.	Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Diarrhoea. Nausea. Vomiting. Burning sensation in the throat and chest. Shock or collapse. Unconsciousness.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Sweep spilled substance into sealable containers. Carefully collect remainder, then remove to safe place. Chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment.	Separated from strong oxidants, acids, halogens, food and feedstuffs. Well closed.	Do not transport with food and feedstuffs. Marine pollutant. T symbol N symbol R: 23/25-50/53 S: 1/2-20/21-28-45-60-61 UN Hazard Class: 6.1 UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0013

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

**ARSENIC**

**ICSC: 0013**

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> ODOURLESS, BRITTLE, GREY, METALLIC-LOOKING CRYSTALS.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Upon heating, toxic fumes are formed. Reacts violently with strong oxidants and halogens, causing fire and explosion hazard. Reacts with acids to produce</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.01 mg/m<sup>3</sup> as TWA A1 (confirmed human carcinogen); BEI issued (ACGIH 2004). MAK: Carcinogen category: 1; Germ cell mutagen group: 3A; (DFG 2004). OSHA PEL: 1910.1018 TWA 0.010 mg/m<sup>3</sup> NIOSH REL: Ca C 0.002 mg/m<sup>3</sup> 15-minute <a href="#">See Appendix A</a> NIOSH IDLH: Ca 5 mg/m<sup>3</sup> (as As) See: <a href="#">7440382</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly, when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes the skin and the respiratory tract. The substance may cause effects on the gastrointestinal tract cardiovascular system central nervous system kidneys , resulting in severe gastroenteritis, loss of fluid, and electrolytes, cardiac disorders shock convulsions and kidney impairment Exposure above the OEL may result in death. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the mucous membranes, skin, peripheral nervous system liver bone marrow , resulting in pigmentation disorders, hyperkeratosis, perforation of nasal septum, neuropathy, liver impairment anaemia This substance is carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Sublimation point: 613°C Density: 5.7 g/cm<sup>3</sup></p>	<p>Solubility in water: none</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.</p>	
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**NOTES**

The substance is combustible but no flash point is available in literature. Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. Refer also to cards for specific arsenic compounds, e.g., Arsenic pentoxide (ICSC 0377), Arsenic trichloride (ICSC 0221), Arsenic trioxide (ICSC 0378), Arsine (ICSC 0222).

Transport Emergency Card: TEC (R)-61GT5-II

**ADDITIONAL INFORMATION**

**ICSC: 0013** **ARSENIC**

(C) IPCS, CEC, 1994

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# International Chemical Safety Cards

**BARIUM SULFATE**

ICSC: 0827



Barium sulphate  
Blanc fixe  
Artificial barite  
BaSO<sub>4</sub>  
Molecular mass: 233.43

ICSC # 0827

CAS # 7727-43-7

RTECS # [CR0600000](#)

October 20, 1999 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.
<b>SPILLAGE DISPOSAL</b>		<b>STORAGE</b>	<b>PACKAGING &amp; LABELLING</b>
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Personal protection: P1 filter respirator for inert particles.			R: S:
<b>SEE IMPORTANT INFORMATION ON BACK</b>			
<b>ICSC: 0827</b>		Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## BARIUM SULFATE

ICSC: 0827

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> ODOURLESS TASTELESS, WHITE OR YELLOWISH CRYSTALS OR POWDER.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Reacts violently with aluminium powder.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 10 mg/m<sup>3</sup> as TWA; (ACGIH 2004). MAK: (Inhalable fraction) 4 mg/m<sup>3</sup>; (Respirable fraction) 1.5 mg/m<sup>3</sup>; (DFG 2004). OSHA PEL<sup>†</sup>: TWA 15 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp) NIOSH REL: TWA 10 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp) NIOSH IDLH: N.D. See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Lungs may be affected by repeated or prolonged exposure to dust particles, resulting in baritosis (a form of benign pneumoconiosis).</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Melting point (decomposes): 1600°C Density: 4.5 g/cm<sup>3</sup></p>	Solubility in water: none
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<b>ENVIRONMENTAL DATA</b>	
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### NOTES

Occurs in nature as the mineral barite; also as barytes, heavy spar. Card has been partly updated in October 2005. See section Occupational Exposure Limits.

### ADDITIONAL INFORMATION

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<b>ICSC: 0827</b>	<b>BARIUM SULFATE</b>
(C) IPCS, CEC, 1994	

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

**BERYLLIUM**

ICSC: 0226



Glucinium  
Be  
Atomic mass: 9.0

ICSC # 0226  
CAS # 7440-41-7  
RTECS # [DS1750000](#)  
UN # 1567  
EC # 004-001-00-7  
October 20, 1999 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Special powder, dry sand, NO other agents.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Cough. Shortness of breath. Sore throat. Weakness. Symptoms may be delayed (see Notes).	Local exhaust. Breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>•EYES</b>	Redness. Pain.	Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Carefully collect the spilled substance into containers; if appropriate moisten first, then remove to safe place. Chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment.	Separated from strong acids, bases food and feedstuffs	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Note: E T+ symbol R: 49-25-26-36/37/38-43-48/23 S: 53-45 UN Hazard Class: 6.1 UN Subsidiary Risks: 4.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0226**


Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.



# International Chemical Safety Cards

## BERYLLIUM

ICSC: 0226

<p style="text-align: center;"><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> GREY TO WHITE POWDER.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with strong acids and strong bases forming flammable/explosive gas (hydrogen - see ICSC0001) Forms shock sensitive mixtures with some chlorinated solvents, such as carbon tetrachloride and trichloroethylene.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.002 mg/m<sup>3</sup> as TWA 0.01 mg/m<sup>3</sup> as STEL A1 (confirmed human carcinogen); (ACGIH 2004). Intended change 0.00002 mg/m<sup>3</sup> Skin, Inhal. SEN (ACGIH 2005). MAK: sensitization of respiratory tract and skin (Sah); Carcinogen category: 1; (DFG 2004). OSHA PEL: TWA 0.002 mg/m<sup>3</sup> C 0.005 mg/m<sup>3</sup> 0.025 mg/m<sup>3</sup> 30-minute maximum peak NIOSH REL: Ca Not to exceed 0.0005 mg/m<sup>3</sup> <a href="#">See Appendix A</a> NIOSH IDLH: Ca 4 mg/m<sup>3</sup> (as Be) See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The aerosol of this substance is irritating to the respiratory tract Inhalation of dust or fumes may cause chemical pneumonitis. Exposure may result in death. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization. Lungs may be affected by repeated or prolonged exposure to dust particles , resulting in chronic beryllium disease (cough, weight loss, weakness). This substance is carcinogenic to humans.</p>
<p style="text-align: center;"><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: above 2500°C Melting point: 1287°C Density: 1.9 g/cm<sup>3</sup></p> <p>Solubility in water: none</p>	
<p style="text-align: center;"><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms.</p> 	
<p><b>NOTES</b></p>		
<p>Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. Transport Emergency Card: TEC (R)-61GTF3-II NFPA Code: H3; F1; R0</p>		
<p><b>ADDITIONAL INFORMATION</b></p>		
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<p><b>ICSC: 0226</b></p>	<p>(C) IPCS, CEC, 1994</p>	<p><b>BERYLLIUM</b></p>

<p style="text-align: center;"><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

CADMIUM

ICSC: 0020



Cd

Atomic mass: 112.4

ICSC # 0020

CAS # 7440-43-9

RTECS # [EU9800000](#)

UN # 2570

EC # 048-002-00-0

April 22, 2005 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable in powder form and spontaneously combustible in pyrophoric form. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with heat or acid(s).	Dry sand. Special powder. NO other agents.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
• <b>INHALATION</b>	Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Diarrhoea. Headache. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Personal protection: chemical protection suit including self-contained breathing apparatus. Remove all ignition sources. Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place.	Fireproof. Dry. Keep under inert gas. Separated from ignition sources, oxidants acids, food and feedstuffs	Airtight. Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Note: E T+ symbol N symbol R: 45-26-48/23/25-62-63-68-50/53 S: 53-45-60-61 UN Hazard Class: 6.1

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0020**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## CADMIUM

ICSC: 0020

<p><b>I M P O R T A N T A D V I S I O N</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> SOFT BLUE-WHITE METAL LUMPS OR GREY POWDER. MALLEABLE. TURNS BRITTLE ON EXPOSURE TO 80°C AND TARNISHES ON EXPOSURE TO MOIST AIR.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with acids forming flammable/explosive gas (hydrogen - see ICSC0001.) Dust reacts with oxidants, hydrogen azide, zinc, selenium or tellurium, causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: (Total dust) 0.01 mg/m<sup>3</sup> (Respirable fraction) 0.002 mg/m<sup>3</sup> as TWA A2 (suspected human carcinogen); BEI issued (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 1; Germ cell mutagen group: 3A; (DFG 2004). OSHA PEL*: 1910.1027 TWA 0.005 mg/m<sup>3</sup> *Note: The PEL applies to all Cadmium compounds (as Cd). NIOSH REL*: Ca <a href="#">See Appendix A</a> *Note: The REL applies to all Cadmium compounds (as Cd). NIOSH IDLH: Ca 9 mg/m<sup>3</sup> (as Cd) See: <a href="#">IDLH INDEX</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The fume is irritating to the respiratory tract Inhalation of fume may cause lung oedema (see Notes). Inhalation of fumes may cause metal fume fever. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Lungs may be affected by repeated or prolonged exposure to dust particles. The substance may have effects on the kidneys, resulting in kidney impairment This substance is carcinogenic to humans.</p>
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<b>PHYSICAL PROPERTIES</b>	<p>Boiling point: 765°C Melting point: 321°C Density: 8.6 g/cm<sup>3</sup></p>	<p>Solubility in water: none Auto-ignition temperature: (cadmium metal dust) 250°C</p>
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<b>ENVIRONMENTAL DATA</b>	
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### NOTES

Reacts violently with fire extinguishing agents such as water, foam, carbon dioxide and halons. Depending on the degree of exposure, periodic medical examination is indicated. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Do NOT take working clothes home. Cadmium also exists in a pyrophoric form (EC No. 048-011-00-X), which bears the additional EU labelling symbol F, R phrase 17, and S phrases 7/8 and 43. UN numbers and packing group will vary according to the physical form of the substance.

### ADDITIONAL INFORMATION

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<b>ICSC: 0020</b>	<b>CADMIUM</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

## CALCIUM

ICSC: 1192



Elemental Calcium  
Ca

ICSC # 1192  
 CAS # 7440-70-2  
 RTECS # [EV8040000](#)  
 UN # 1401; 1855 (calcium pyrophoric)  
 EC # 020-001-00-X  
 October 24, 1994 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible but forms flammable gas on contact with water or damp air. Highly flammable when finely divided. Forms flammable gas on contact with water or damp air. Many reactions may cause fire or explosion.	NO open flames, NO sparks, and NO smoking. NO contact with water and incompatible substances (see Chemical Dangers).	Special powder, dry sand, NO other agents. NO water.
<b>EXPLOSION</b>	Risk of fire and explosion on contact with water and incompatible substances (see Chemical Dangers).		In case of fire: cool drums, etc., by spraying with water but avoid contact of the substance with water.
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST!</b>	
• <b>INHALATION</b>		Avoid inhalation of fine dust and mist.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Remove all ignition sources. Sweep spilled substance into containers. Do NOT wash away into sewer. Carefully collect remainder, then remove to safe place. Do NOT absorb in sawdust or other combustible absorbents. (Extra personal protection: complete protective clothing including self-contained breathing apparatus).	Fireproof. Separated from incompatible substances (see Chemical Dangers). Dry. Keep under inert gas. Keep under petroleum oil.	Airtight. Unbreakable packaging; put breakable packaging into closed unbreakable container. F symbol R: 15 S: 2-8-24/25-43 UN Hazard Class: 4.3; 4.2 (calcium pyrophoric) UN Packing Group: II; I (calcium pyrophoric)

**SEE IMPORTANT INFORMATION ON BACK**

ICSC: 1192

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## CALCIUM

ICSC: 1192

I M P O R T A N T  D A T A	<p><b>PHYSICAL STATE; APPEARANCE:</b> LUSTROUS SILVER WHITE METAL (WHEN FRESHLY CUT); TURNS BLUISH GREY ON EXPOSURE TO MOIST AIR.</p> <p><b>PHYSICAL DANGERS:</b> Ignites in air when finely divided.</p> <p><b>CHEMICAL DANGERS:</b> Reacts with water, alcohol diluted acids with evolution of highly flammable hydrogen gas. Reacts with halogens. Burns in air. Contact with alkali hydroxides or carbonates may cause detonation.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b></p> <p><b>INHALATION RISK:</b></p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 1440°C Melting point: 850°C	Relative density (water = 1): 1.54 Solubility in water: reaction
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<b>ENVIRONMENTAL DATA</b>	
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### NOTES

Reacts violently with fire extinguishing agents such as water, foam, halons and carbon dioxide. Do NOT take working clothes home.  
 Transport Emergency Card: TEC (R)-43G12; 42G13 (pyrophoric)  
 NFPA Code: H1; F1; R2; W

### ADDITIONAL INFORMATION

<b>ICSC: 1192</b>	(C) IPCS, CEC, 1994	<b>CALCIUM</b>
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<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

**CHROMIUM**

ICSC: 0029



Chrome  
Cr  
Atomic mass: 52.0  
(powder)

ICSC # 0029  
CAS # 7440-47-3  
RTECS # [GB4200000](#)  
October 27, 2004 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible under specific conditions.	No open flames if in powder form.	In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>		Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST!</b>	
• <b>INHALATION</b>	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Personal protection: P2 filter respirator for harmful particles.		R: S:

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0029**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**CHROMIUM**

ICSC: 0029

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> GREY POWDER	<b>ROUTES OF EXPOSURE:</b>
<b>M</b>	<b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.	<b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed.
<b>P</b>		



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**CHEMICAL DANGERS:**

Chromium is a catalytic substance and may cause reaction in contact with many organic and inorganic substances , causing fire and explosion hazard.

**EFFECTS OF SHORT-TERM EXPOSURE:**

May cause mechanical irritation to the eyes and the respiratory tract.

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV: (as Cr metal, Cr(III) compounds) 0.5 mg/m<sup>3</sup> as TWA A4 (ACGIH 2004).  
MAK not established.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

OSHA PEL\*: TWA 1 mg/m<sup>3</sup> [See Appendix C](#) \*Note: The PEL also applies to insoluble chromium salts.

NIOSH REL: TWA 0.5 mg/m<sup>3</sup> [See Appendix C](#)

NIOSH IDLH: 250 mg/m<sup>3</sup> (as Cr) See: [7440473](#)

**PHYSICAL PROPERTIES**

Boiling point: 2642°C  
Melting point: 1900°C  
Density: 7.15 g/cm<sup>3</sup>

Solubility in water:  
none

**ENVIRONMENTAL DATA**

**NOTES**

The surface of the chromium particles is oxidized to chromium(III)oxide in air. See ICSC 1531 Chromium(III) oxide.

**ADDITIONAL INFORMATION**

**ICSC: 0029**

**CHROMIUM**

(C) IPCS, CEC, 1994

**IMPORTANT LEGAL NOTICE:**

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# International Chemical Safety Cards

## COBALT

**ICSC: 0782**


Co  
Atomic mass: 58.9  
(powder)

ICSC # 0782  
CAS # 7440-48-4  
RTECS # [GF8750000](#)  
EC # 027-001-00-9  
April 21, 2004 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Dust may ignite on contact with air or oxygen.	NO contact with oxidants.	Special powder, dry sand, NO other agents.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air. Risk of fire and explosion on contact with oxidants or acetylene.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!	
• <b>INHALATION</b>	Cough. Shortness of breath. Sore throat. Wheezing.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give one or two glasses of water to drink.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Separated from strong oxidants. Store in an area without drain or sewer access.	Xn symbol R: 42/43-53 S: 2-22-24-37-61

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0782**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

# COBALT

ICSC: 0782

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> SILVER-GREY POWDER .</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air .</p> <p><b>CHEMICAL DANGERS:</b> The substance may spontaneously ignite on contact with air or acetylene, when finely divided. Reacts with strong oxidants , causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.02 mg/m<sup>3</sup> as TWA; A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2004). MAK: (Inhalable fraction) skin absorption (H); sensitization of respiratory tract and skin (Sah); Carcinogen category: 2; Germ cell mutagen group: 3A OSHA PEL<sub>±</sub>: TWA 0.1 mg/m<sup>3</sup> NIOSH REL: TWA 0.05 mg/m<sup>3</sup> NIOSH IDLH: 20 mg/m<sup>3</sup> (as Co) See: <a href="#">7440484</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance (as fume or dust) is mildly irritating to the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma. Lungs may be affected by repeated or prolonged exposure. This substance is possibly carcinogenic to humans.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 2870°C Melting point: 1493°C Density: 8.9 g/cm<sup>3</sup></p>	<p>Solubility in water: none</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish and in molluscs.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. The symptoms of asthma often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Anyone who has shown symptoms of asthma due to this substance should avoid all further contact with this substance. Do NOT take working clothes home.  
Card has been partially updated in April 2010: see Occupational Exposure Limits, Ingestion First Aid, Spillage Disposal, Storage.

**ADDITIONAL INFORMATION**

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<p><b>ICSC: 0782</b></p>	<p>(C) IPCS, CEC, 1994</p>	<p><b>COBALT</b></p>
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<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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# International Chemical Safety Cards

**COPPER**

ICSC: 0240



Cu  
(powder)

ICSC # 0240

CAS # 7440-50-8

RTECS # [GL5325000](#)

September 24, 1993 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Special powder, dry sand, NO other agents.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Cough. Headache. Shortness of breath. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers. Carefully collect remainder. Then remove to safe place. (Extra personal protection: P2 filter respirator for harmful particles).	Separated from - See Chemical Dangers.	R: S:

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0240**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**COPPER**

ICSC: 0240

<p><b>I</b></p> <p><b>M</b></p> <p><b>P</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> RED POWDER, TURNS GREEN ON EXPOSURE TO MOIST AIR.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p>
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Shock-sensitive compounds are formed with acetylenic compounds, ethylene oxides and azides. Reacts with strong oxidants like chlorates, bromates and iodates, causing explosion hazard.

**EFFECTS OF SHORT-TERM EXPOSURE:**  
Inhalation of fumes may cause metal fume fever. See Notes.

**OCCUPATIONAL EXPOSURE LIMITS:**  
TLV: 0.2 mg/m<sup>3</sup> fume (ACGIH 1992-1993).  
TLV (as Cu, dusts & mists): 1 mg/m<sup>3</sup> (ACGIH 1992-1993).  
Intended change 0.1 mg/m<sup>3</sup>  
Inhal.,  
A4 (not classifiable as a human carcinogen);  
MAK: 0.1 mg/m<sup>3</sup> (Inhalable fraction)  
Peak limitation category: II(2) Pregnancy risk group: D (DFG 2005).  
OSHA PEL\*: TWA 1 mg/m<sup>3</sup> \*Note: The PEL also applies to other copper compounds (as Cu) except copper fume.  
NIOSH REL\*: TWA 1 mg/m<sup>3</sup> \*Note: The REL also applies to other copper compounds (as Cu) except Copper fume.  
NIOSH IDLH: 100 mg/m<sup>3</sup> (as Cu) See: [7440508](#)

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**  
Repeated or prolonged contact may cause skin sensitization.

<b>PHYSICAL PROPERTIES</b>	Boiling point: 2595°C Melting point: 1083°C Relative density (water = 1): 8.9	Solubility in water: none
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<b>ENVIRONMENTAL DATA</b>	
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**NOTES**

The symptoms of metal fume fever do not become manifest until several hours.

**ADDITIONAL INFORMATION**

<b>ICSC: 0240</b>	(C) IPCS, CEC, 1994	<b>COPPER</b>
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<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

## IRON (III)-o-ARSENITE, PENTAHYDRATE

ICSC: 1241



Ferric arsenite  
 $As_2Fe_2O_6 \cdot Fe_2O_3 \cdot 5H_2O$   
 Molecular mass: 607.3

ICSC # 1241  
 CAS # 63989-69-5  
 RTECS # [NO4600000](#)  
 UN # 1607  
 EC # 033-002-00-5  
 October 27, 1994 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Cough. Shortness of breath. Sore throat. Weakness. See Ingestion.	Avoid inhalation of fine dust and mist. Closed system and ventilation.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Redness. Burning sensation.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>•EYES</b>	Redness. Pain.	Safety goggles or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Burning sensation. Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Vacuum spilled material. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P3 filter respirator for toxic particles.	Separated from food and feedstuffs .	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Marine pollutant. Note: A, 1 T symbol N symbol R: 23/25-50/53 S: 1/2-20/21-28-45-60-61 UN Hazard Class: 6.1 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1241**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.




# International Chemical Safety Cards

## IRON (III)-o-ARSENITE, PENTAHYDRATE

ICSC: 1241

<p><b>I</b></p> <p><b>M</b></p> <p><b>P</b></p> <p><b>O</b></p> <p><b>R</b></p> <p><b>T</b></p> <p><b>A</b></p> <p><b>N</b></p> <p><b>T</b></p> <p><b>D</b></p> <p><b>A</b></p> <p><b>T</b></p> <p><b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> BROWN POWDER.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating or on burning producing toxic fumes of arsenic and iron.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: (as As) 0.01 mg/m<sup>3</sup> as TWA; A1 (confirmed human carcinogen); BEI issued; (ACGIH 2004). MAK: Carcinogen category: 1; Germ cell mutagen group: 3A; (DFG 2004).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the nervous system, liver, skin, kidneys and gastrointestinal tract, resulting in kidney impairment, neuropathy, severe gastroenteritis, degenerative liver damage and dermatitis. Exposure may result in death. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis, grey skin and hyperkeratosis. The substance may have effects on the nervous system, liver, cardiovascular system and respiratory tract, resulting in neuropathy, gangrene, degenerative liver damage and perforation of nasal septum. This substance is carcinogenic to humans.</p>
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<b>PHYSICAL PROPERTIES</b>	Solubility in water: none
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<b>ENVIRONMENTAL DATA</b>	This substance may be hazardous to the environment; special attention should be given to plants, air quality and water quality. It is strongly advised that this substance does not enter the environment.	
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**NOTES**

Do NOT take working clothes home. See also ICSC0013 Arsenic. Card has been partly updated in April and October 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-61GT5-II

**ADDITIONAL INFORMATION**

<b>ICSC: 1241</b>	<b>IRON (III)-o-ARSENITE, PENTAHYDRATE</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

**LEAD**

ICSC: 0052



Lead metal  
Plumbum  
Pb  
Atomic mass: 207.2  
(powder)

ICSC # 0052  
CAS # 7439-92-1  
RTECS # [OF7525000](#)  
October 08, 2002 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Personal protection: P3 filter respirator for toxic particles.	Separated from food and feedstuffs incompatible materials See Chemical Dangers.	R: S:

**SEE IMPORTANT INFORMATION ON BACK**


**ICSC: 0052**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

<p><b>I M P O R T A N T D A T A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> BLUISH-WHITE OR SILVERY-GREY SOLID IN VARIOUS FORMS. TURNS TARNISHED ON EXPOSURE TO AIR.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b> On heating, toxic fumes are formed. Reacts with oxidants. Reacts with hot concentrated nitric acid, boiling concentrated hydrochloric acid and sulfuric acid. Attacked by pure water and by weak organic acids in the presence of oxygen.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.05 mg/m<sup>3</sup> A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued (ACGIH 2004). MAK: Carcinogen category: 3B; Germ cell mutagen group: 3A; (DFG 2004). EU OEL: as TWA 0.15 mg/m<sup>3</sup> (EU 2002). OSHA PEL*: 1910.1025 TWA 0.050 mg/m<sup>3</sup> <a href="#">See Appendix C</a> *Note: The PEL also applies to other lead compounds (as Pb) -- <a href="#">see Appendix C</a>. NIOSH REL*: TWA 0.050 mg/m<sup>3</sup> <a href="#">See Appendix C</a> *Note: The REL also applies to other lead compounds (as Pb) -- <a href="#">see Appendix C</a>. NIOSH IDLH: 100 mg/m<sup>3</sup> (as Pb) See: <a href="#">7439921</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the blood bone marrow central nervous system peripheral nervous system kidneys , resulting in anaemia, encephalopathy (e.g., convulsions), peripheral nerve disease, abdominal cramps and kidney impairment. Causes toxicity to human reproduction or development.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 1740°C Melting point: 327.5°C	Density: 11.34 g/cm <sup>3</sup> Solubility in water: none
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<b>ENVIRONMENTAL DATA</b>	Bioaccumulation of this chemical may occur in plants and in mammals. It is strongly advised that this substance does not enter the environment.	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home.  
 Transport Emergency Card: TEC (R)-51S1872

**ADDITIONAL INFORMATION**

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<b>ICSC: 0052</b>	<b>LEAD</b>
(C) IPCS, CEC, 1994	

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# International Chemical Safety Cards

**MAGNESIUM (POWDER)**

ICSC: 0289



Mg  
Atomic mass: 24.30

ICSC # 0289  
CAS # 7439-95-4  
RTECS # [OM2100000](#)  
UN # 1418  
EC # 012-001-00-3 (pyrophoric)  
April 12, 2000 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with moisture, acids, halogens and many other substances.	Special powder, dry sand, NO other agents. NO water.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Do NOT expose to friction or shock. Prevent build-up of electrostatic charges (e.g., by grounding).	
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Cough. Laboured breathing. Headache. Dullness. Weakness. Fever or elevated body temperature.		
• <b>SKIN</b>			
• <b>EYES</b>	Redness. Pain.	Safety goggles.	
• <b>INGESTION</b>	Abdominal pain. Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place. Personal protection: P2 filter respirator for harmful particles.	Fireproof. Separated from strong oxidants, acids. Dry.	Airtight. F symbol R: 15-17 S: 2-7/8-43 UN Hazard Class: 4.3 UN Subsidiary Risks: 4.2 UN Packing Group: II

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0289**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**MAGNESIUM (POWDER)**

ICSC: 0289

I  M	<b>PHYSICAL STATE; APPEARANCE:</b> GREY POWDER	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation.
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A

**PHYSICAL DANGERS:**

Dust explosion possible if in powder or granular form, mixed with air. If dry, it can be charged electrostatically by swirling, pneumatic transport, pouring, etc.

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

**CHEMICAL DANGERS:**

The substance may spontaneously ignite on contact with air or moisture producing irritating or toxic fumes Reacts violently with strong oxidants. Reacts violently with many substances causing fire and explosion hazard. Reacts with acids and water forming flammable/explosive gas (hydrogen - see ICSC0001) causing fire and explosion hazard.

**EFFECTS OF SHORT-TERM EXPOSURE:**

Inhalation of fumes may cause metal fume fever.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV not established.  
MAK not established.

**PHYSICAL PROPERTIES**

Boiling point: 1100°C  
Melting point: 651°C  
Density: 1.7 g/cm<sup>3</sup>

Solubility in water: none  
Auto-ignition temperature: 473°C  
Explosive limits, vol% in air: see Notes

**ENVIRONMENTAL DATA**

**NOTES**

Burns with an intense flame. In order to prevent eye injury do not look directly at magnesium fires. Reacts violently with fire extinguishing agents such as water, carbon dioxide and powder. Explosive limits, vol% in air: (LEL) 0.03 kg/m<sup>3</sup>.

Transport Emergency Card: TEC (R)-43GWS-II+III  
NFPA Code: H0; F1; R2;

**ADDITIONAL INFORMATION**

**ICSC: 0289**

**MAGNESIUM (POWDER)**

(C) IPCS, CEC, 1994





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# International Chemical Safety Cards

**MANGANESE**

**ICSC: 0174**

Mn  
Atomic mass: 54.9  
(powder)



ICSC # 0174  
CAS # 7439-96-5  
RTECS # [OO9275000](#)  
November 27, 2003 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Dry sand, special powder.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!</b>	
<b>•INHALATION</b>	Cough.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>		Protective gloves.	Rinse and then wash skin with water and soap.
<b>•EYES</b>		Safety goggles, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Abdominal pain. Nausea.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place. (Extra personal protection: P2 filter respirator for harmful particles.)	Separated from acids. Dry.	

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0174**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

**MANGANESE**


**ICSC: 0174**

<b>I</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> GREY - WHITE POWDER</p> <p><b>PHYSICAL DANGERS:</b></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p>
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<p><b>M P O R T A N T D A T A</b></p>	<p>Dust explosion possible if in powder or granular form, mixed with air.</p> <p><b>CHEMICAL DANGERS:</b>                  Reacts slowly with water more rapidly with steam and acids forming flammable/explosive gas (hydrogen - see ICSC0001) causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b>                  TLV: 0.2 mg/m<sup>3</sup> (as TWA); (ACGIH 2003).                  MAK: (Inhalable fraction) 0.5 mg/m<sup>3</sup>; Pregnancy risk group: C; (DFG 2007).                  OSHA PEL*: C 5 mg/m<sup>3</sup> *Note: Also see specific listings for Manganese cyclopentadienyl tricarbonyl and Methyl cyclopentadienyl manganese tricarbonyl.                  NIOSH REL*: TWA 1 mg/m<sup>3</sup> ST 3 mg/m<sup>3</sup> *Note: Also see specific listings for Manganese cyclopentadienyl tricarbonyl, Methyl cyclopentadienyl manganese tricarbonyl, and Manganese tetroxide.                  NIOSH IDLH: 500 mg/m<sup>3</sup> (as Mn) See: <a href="#">7439965</a></p>	<p><b>INHALATION RISK:</b>                  Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b>                  The aerosol is irritating to the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>                  The substance may have effects on the lungs and central nervous system , resulting in increased susceptibility to bronchitis, pneumonitis and neurologic, neuropsychiatric disorders (manganism). Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 1962°C                  Melting point: 1244°C                  Density: 7.47 g/cm<sup>3</sup></p>	<p>Solubility in water:                  none</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>This substance may be hazardous in the environment; special attention should be given to aquatic organisms.</p>	
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**NOTES**

Depending on the degree of exposure, periodic medical examination is suggested. The recommendations on this Card also apply to ferro manganese.

**ADDITIONAL INFORMATION**

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<b>ICSC: 0174</b>	(C) IPCS, CEC, 1994	<b>MANGANESE</b>
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# International Chemical Safety Cards

**MERCURY**

ICSC: 0056



Quicksilver  
Liquid silver  
Hg  
Atomic mass: 200.6

ICSC # 0056  
CAS # 7439-97-6  
RTECS # [OV4550000](#)  
UN # 2809  
EC # 080-001-00-0  
April 22, 2004 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>	Risk of fire and explosion.		In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
<b>•INHALATION</b>	Abdominal pain. Cough. Diarrhoea. Shortness of breath. Vomiting. Fever or elevated body temperature.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
<b>•SKIN</b>	MAY BE ABSORBED! Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>•EYES</b>		Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>		Do not eat, drink, or smoke during work. Wash hands before eating.	Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area in case of a large spill! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable non-metallic containers as far as possible. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs Well closed.	Special material. Do not transport with food and feedstuffs. T symbol N symbol R: 23-33-50/53 S: 1/2-7-45-60-61 UN Hazard Class: 8 UN Packing Group: III

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0056**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.


# International Chemical Safety Cards

## MERCURY

ICSC: 0056

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> ODOURLESS, HEAVY AND MOBILE SILVERY LIQUID METAL.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Upon heating, toxic fumes are formed. Reacts violently with ammonia and halogens causing fire and explosion hazard. Attacks aluminium and many other metals forming amalgams.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.025 mg/m<sup>3</sup> as TWA (skin) A4 BEI issued (ACGIH 2004). MAK: 0.1 mg/m<sup>3</sup> Sh Peak limitation category: II(8) Carcinogen category: 3B (DFG 2003). OSHA PEL<sub>f</sub>: C 0.1 mg/m<sup>3</sup> NIOSH REL: Hg Vapor: TWA 0.05 mg/m<sup>3</sup> skin Other: C 0.1 mg/m<sup>3</sup> skin NIOSH IDLH: 10 mg/m<sup>3</sup> (as Hg) See: <a href="#">7439976</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its vapour and through the skin, also as a vapour!</p> <p><b>INHALATION RISK:</b> A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the skin. Inhalation of the vapours may cause pneumonitis. The substance may cause effects on the central nervous system and kidneys. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the central nervous system kidneys, resulting in irritability, emotional instability, tremor, mental and memory disturbances, speech disorders. Danger of cumulative effects. Animal tests show that this substance possibly causes toxic effects upon human reproduction.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 357°C Melting point: -39°C Relative density (water = 1): 13.5 Solubility in water: none</p>	<p>Vapour pressure, Pa at 20°C: 0.26 Relative vapour density (air = 1): 6.93 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.009</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	<p>The substance is very toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish.</p>	
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### NOTES

Depending on the degree of exposure, periodic medical examination is indicated. No odour warning if toxic concentrations are present. Do NOT take working clothes home.

Transport Emergency Card: TEC (R)-80GC9-II+III

### ADDITIONAL INFORMATION

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<b>ICSC: 0056</b>	(C) IPCS, CEC, 1994	<b>MERCURY</b>
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# International Chemical Safety Cards

NICKEL

ICSC: 0062



Ni  
Atomic mass: 58.7  
(powder)

ICSC # 0062  
CAS # 7440-02-0  
RTECS # [QR5950000](#)  
EC # 028-002-00-7  
October 17, 2001 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Flammable as dust. Toxic fumes may be released in a fire.		Dry sand. NO carbon dioxide. NO water.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!</b>	
• <b>INHALATION</b>	Cough. Shortness of breath.	Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Vacuum spilled material. Carefully collect remainder, then remove to safe place. Personal protection: P2 filter respirator for harmful particles.	Separated from strong acids.	Xn symbol R: 40-43 S: 2-22-36

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0062**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

NICKEL

ICSC: 0062

<b>I</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> SILVERY METALLIC SOLID IN VARIOUS FORMS.</p> <p><b>PHYSICAL DANGERS:</b></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of the dust.</p>
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Dust explosion possible if in powder or granular form, mixed with air.

**CHEMICAL DANGERS:**

Reacts violently, in powder form, with titanium powder and potassium perchlorate, and oxidants such as ammonium nitrate, causing fire and explosion hazard. Reacts slowly with non-oxidizing acids and more rapidly with oxidizing acids. Toxic gases and vapours (such as nickel carbonyl) may be released in a fire involving nickel.

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV: (Inhalable fraction) 1.5 mg/m<sup>3</sup> as TWA A5 (not suspected as a human carcinogen); (ACGIH 2004).  
MAK: (Inhalable fraction) sensitization of respiratory tract and skin (Sah); Carcinogen category: 1; (DFG 2004).  
OSHA PEL\*†: TWA 1 mg/m<sup>3</sup> \*Note: The PEL does not apply to Nickel carbonyl.  
NIOSH REL\*: Ca TWA 0.015 mg/m<sup>3</sup> [See Appendix A](#)  
\*Note: The REL does not apply to Nickel carbonyl.  
NIOSH IDLH: Ca 10 mg/m<sup>3</sup> (as Ni) See: [7440020](#)

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

**EFFECTS OF SHORT-TERM EXPOSURE:**

May cause mechanical irritation. Inhalation of fumes may cause pneumonitis.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma. Lungs may be affected by repeated or prolonged exposure. This substance is possibly carcinogenic to humans.

**PHYSICAL PROPERTIES**

Boiling point: 2730°C  
Melting point: 1455°C  
Density: 8.9 g/cm<sup>3</sup>

Solubility in water: none

**ENVIRONMENTAL DATA**

**NOTES**

At high temperatures, nickel oxide fumes will be formed. Depending on the degree of exposure, periodic medical examination is suggested. The symptoms of asthma often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Anyone who has shown symptoms of asthma due to this substance should avoid all further contact with this substance.

**ADDITIONAL INFORMATION**

**ICSC: 0062**

**NICKEL**

(C) IPCS, CEC, 1994

**IMPORTANT LEGAL NOTICE:**

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# International Chemical Safety Cards

## POTASSIUM

ICSC: 0716



Kalium  
K

Atomic mass: 39.1

ICSC # 0716  
CAS # 7440-09-7  
RTECS # [TS6460000](#)  
UN # 2257  
EC # 019-001-00-2  
April 06, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Many reactions may cause fire or explosion. Gives off irritating or toxic fumes (or gases) in a fire.	NO contact with water, acid(s) or halogens . NO open flames, NO sparks, and NO smoking.	Special powder, dry sand, NO other agents.
<b>EXPLOSION</b>	Risk of fire and explosion. on contact with acid(s) , halogens , water .		Combat fire from a sheltered position.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Cough. Sore throat. Burning sensation.	Closed system and ventilation.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Pain. Blisters. Serious skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Severe deep burns. loss of vision.	Face shield .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Chemical protection suit including self-contained breathing apparatus. Cover the spilled material with dry powder.	Fireproof. Keep under mineral oil. Dry. Well closed.	Airtight. Unbreakable packaging; put breakable packaging into closed unbreakable container. F symbol C symbol R: 14/15-34 S: (1/2)-5-8-45 UN Hazard Class: 4.3 UN Packing Group: I Signal: Danger Flame-Corr In contact with water releases flammable gases which may ignite spontaneously Causes severe skin burns and eye damage

SEE IMPORTANT INFORMATION ON BACK



ICSC: 0716

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## POTASSIUM

ICSC: 0716

<b>I M P O R T A N T  D A T A</b>	<b>PHYSICAL STATE; APPEARANCE:</b> WHITE TO GREY LUMPS	<b>ROUTES OF EXPOSURE:</b> Serious local effects by all routes of exposure.
	<b>PHYSICAL DANGERS:</b>	<b>INHALATION RISK:</b>
	<b>CHEMICAL DANGERS:</b> Reacts violently with water , causing fire and explosion hazard . The substance decomposes rapidly under the influence of air and moisture , forming flammable/explosive gas (Hydrogen - see ICSC0001) .	<b>EFFECTS OF SHORT-TERM EXPOSURE:</b> See ICSC 0357 (Potassium hydroxide)
	<b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>
	<b>PHYSICAL PROPERTIES</b>	Boiling point: 765.5°C Melting point: 63.2°C Density: 0.856 g/cm <sup>3</sup>
<b>ENVIRONMENTAL DATA</b>		
<b>NOTES</b>		
Potassium is always kept under mineral oil. Reacts violently with fire extinguishing agents such as water and carbon dioxide . <div style="text-align: right;">           Transport Emergency Card: TEC (R)-43S2257a            NFPA Code: H3; F3; R2;         </div>		
<b>ADDITIONAL INFORMATION</b>		
<div style="display: flex; justify-content: space-between;"> <span>ICSC: 0716</span> <span>POTASSIUM</span> </div> <div style="text-align: center; margin-top: 10px;"> <small>(C) IPCS, CEC, 1994</small> </div>		
<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

**SELENIUM**

ICSC: 0072



Se  
Atomic mass: 79.0  
(powder)

ICSC # 0072  
CAS # 7782-49-2  
RTECS # [VS7700000](#)  
EC # 034-001-00-2  
April 26, 1993 Peer reviewed

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with oxidants.	Powder, AFFF, foam, carbon dioxide. NO water
<b>EXPLOSION</b>	Risk of fire and explosion on contact with oxidants.		
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
<b>•INHALATION</b>	Irritation of nose. Cough. Dizziness. Headache. Laboured breathing. Nausea. Sore throat. Vomiting. Weakness. Symptoms may be delayed (see Notes).	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>•SKIN</b>	Redness. Skin burns. Pain. Discolouration.	Protective gloves. Protective clothing.	Rinse skin with plenty of water or shower. Refer for medical attention. Remove and isolate contaminated clothes.
<b>•EYES</b>	Redness. Pain. Blurred vision.	Safety spectacles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Metallic taste. Diarrhoea. Chills. Fever. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.	Fireproof. Separated from strong oxidants, strong acids, food and feedstuffs Dry.	Airtight. Do not transport with food and feedstuffs. T symbol R: 23/25-33-53 S: 1/2-20/21-28-45-61

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 0072**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

<b>I M P O R T A N T D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> ODOURLESS SOLID IN VARIOUS FORMS. DARK RED-BROWN TO BLuish-BLACK AMORPHOUS SOLID OR RED TRANSPARENT CRYSTALS OR METALLIC GREY TO BLACK CRYSTALS.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> Upon heating, toxic fumes are formed. Reacts violently with oxidants strong acids Reacts with water at 50°C forming flammable/explosive gas (hydrogen - see ICSC0001) and selenious acids. Reacts with incandescence on gentle heating with phosphorous and metals such as nickel, zinc, sodium, potassium, platinum.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV: 0.2 mg/m<sup>3</sup> as TWA (ACGIH 2004). MAK: (Inhalable fraction) 0.05 mg/m<sup>3</sup> Peak limitation category: II(4); Carcinogen category: 3B; Pregnancy risk group: C; (DFG 2004). OSHA PEL*: TWA 0.2 mg/m<sup>3</sup> *Note: The PEL also applies to other selenium compounds (as Se) except Selenium hexafluoride. NIOSH REL*: TWA 0.2 mg/m<sup>3</sup> *Note: The REL also applies to other selenium compounds (as Se) except Selenium hexafluoride. NIOSH IDLH: 1 mg/m<sup>3</sup> (as Se) See: <a href="#">7782492</a></p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes and the respiratory tract Inhalation of dust may cause lung oedema (see Notes). Inhalation of fume may cause symptoms of asphyxiation, chills and fever and bronchitis. The effects may be delayed.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the respiratory tract, gastrointestinal tract, and skin, resulting in nausea, vomiting, cough, yellowish skin discoloration, loss of nails, garlic breath and bad teeth.</p>
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<b>PHYSICAL PROPERTIES</b>	Boiling point: 685°C Melting point: 170-217°C Relative density (water = 1): 4.8	Solubility in water: none Vapour pressure, Pa at 20°C: 0.1
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<b>ENVIRONMENTAL DATA</b>	
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**NOTES**

Do NOT take working clothes home.

**ADDITIONAL INFORMATION**

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**ICSC: 0072****SELENIUM**

(C) IPCS, CEC, 1994

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

SILVER

ICSC: 0810



Argentum  
C.I. 77820  
Ag

ICSC # 0810  
CAS # 7440-22-4  
RTECS # [VW3500000](#)  
September 10, 1997 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible, except as powder.		
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>		Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>		Protective gloves.	Rinse skin with plenty of water or shower.
• <b>EYES</b>		Safety spectacles, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	Separated from ammonia, strong hydrogen peroxide solutions, strong acids.	

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0810

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

SILVER

ICSC: 0810

<b>I</b>	<b>PHYSICAL STATE; APPEARANCE:</b> WHITE METAL, TURNS DARK ON EXPOSURE TO OZONE, HYDROGEN SULFIDE OR SULFUR.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.
<b>M</b>		
<b>P</b>	<b>PHYSICAL DANGERS:</b>	<b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.
<b>O</b>	<b>CHEMICAL DANGERS:</b>	
<b>R</b>	Shock-sensitive compounds are formed with acetylene.	

T  
A  
N  
T  
D  
A  
T  
A

Reacts with acids causing fire hazard. Contact with strong hydrogen peroxide solution will cause violent decomposition to oxygen gas. Contact with ammonia may cause formation of compounds that are explosive when dry.

**OCCUPATIONAL EXPOSURE LIMITS:**

TLV (metal): 0.1 mg/m<sup>3</sup> (ACGIH 1997).  
 EU OEL: 0.1 mg/m<sup>3</sup> as TWA (EU 2000).  
 OSHA PEL: TWA 0.01 mg/m<sup>3</sup>  
 NIOSH REL: TWA 0.01 mg/m<sup>3</sup>  
 NIOSH IDLH: 10 mg/m<sup>3</sup> (as Ag) See: [IDLH INDEX](#)

**EFFECTS OF SHORT-TERM EXPOSURE:**

Inhalation of high amounts of metallic silver vapours may cause lung damage with pulmonary oedema.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

The substance may cause a grey-blue discoloration of the eyes, nose, throat and skin (argyria/argyrosis).

<b>PHYSICAL PROPERTIES</b>	Boiling point: 2212°C	Relative density (water = 1): 10.5
	Melting point: 962°C	Solubility in water: none

<b>ENVIRONMENTAL DATA</b>	This substance may be hazardous to the environment; special attention should be given to aquatic organisms.	
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**NOTES**

Card has been partially updated in March 2008: see Occupational Exposure Limits.

**ADDITIONAL INFORMATION**

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<b>ICSC: 0810</b>	<b>SILVER</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

## SODIUM

ICSC: 0717



Natrium  
Na  
Atomic mass: 23.0

ICSC # 0717  
CAS # 7440-23-5  
RTECS # [VY0686000](#)  
UN # 1428  
EC # 011-001-00-0  
April 06, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Many reactions may cause fire or explosion. Gives off irritating or toxic fumes (or gases) in a fire.	NO contact with water, acid(s) or halogens . NO open flames, NO sparks, and NO smoking.	Special powder, dry sand, NO other agents.
<b>EXPLOSION</b>	Risk of fire and explosion. on contact with acid(s) , halogens , water .		Combat fire from a sheltered position.
<b>EXPOSURE</b>			
<b>•INHALATION</b>	Cough. Sore throat. Burning sensation.	Closed system and ventilation.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>•SKIN</b>	Pain. Blisters. Serious skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>•EYES</b>	Severe deep burns. loss of vision.	Face shield .	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>•INGESTION</b>	Burning sensation. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Chemical protection suit including self-contained breathing apparatus. Cover the spilled material with dry powder.	Fireproof. Keep under mineral oil. Dry. Well closed.	Airtight. Unbreakable packaging; put breakable packaging into closed unbreakable container. F symbol C symbol R: 14/15-34 S: (1/2)-5 -8-43-45 UN Hazard Class: 4.3 UN Packing Group: I Signal: Danger Flame-Corr In contact with water releases flammable gases which may ignite spontaneously Causes severe skin burns and eye damage

SEE IMPORTANT INFORMATION ON BACK



ICSC: 0717

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

SODIUM

ICSC: 0717

I M P O R T A N T  D A T A	<b>PHYSICAL STATE; APPEARANCE:</b> SILVERY SOLID IN VARIOUS FORMS  <b>PHYSICAL DANGERS:</b>  <b>CHEMICAL DANGERS:</b> Reacts violently with water , causing fire and explosion hazard . The substance decomposes rapidly under the influence of air and moisture , forming flammable/explosive gas (Hydrogen - see ICSC0001) .  <b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK not established.	<b>ROUTES OF EXPOSURE:</b> Serious local effects by all routes of exposure.  <b>INHALATION RISK:</b>  <b>EFFECTS OF SHORT-TERM EXPOSURE:</b> See ICSC 0360 (Sodium hydroxide)  <b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>
	<b>PHYSICAL PROPERTIES</b> Boiling point: 880°C Melting point: 97.4°C Density: 0.97 g/cm <sup>3</sup>	Solubility in water: reaction Vapour pressure, Pa at 20°C: negligible Auto-ignition temperature: 120-125°C
<b>ENVIRONMENTAL DATA</b>		
<b>NOTES</b>		
Sodium is always kept under mineral oil. Reacts violently with fire extinguishing agents such as water and carbon dioxide .		
Transport Emergency Card: TEC (R)-43S1428a NFPA Code: H3; F3; R2;		
<b>ADDITIONAL INFORMATION</b>		
ICSC: 0717		<b>SODIUM</b>
(C) IPCS, CEC, 1994		
<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

# International Chemical Safety Cards

## VANADIUM TRIOXIDE

ICSC: 0455



Divanadium trioxide  
 Vanadium sesquioxide  
 Vanadic oxide  
 Vanadium(III) oxide  
 $V_2O_3$   
 Molecular mass: 149.9

ICSC # 0455  
 CAS # 1314-34-7  
 RTECS # [YW3050000](#)  
 UN # 3285  
 April 04, 2006 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Sore throat. Cough. Symptoms may be delayed (see Notes).	Local exhaust or breathing protection.	Fresh air, rest.
• <b>SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness.	Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: P3 filter respirator for toxic particles. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from food and feedstuffs.	Do not transport with food and feedstuffs. UN Hazard Class: 6.1 UN Packing Group: III Signal: Warning Excl mark-Health haz Harmful if inhaled dust Suspected of causing cancer

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0455

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

ICSC: 0455

# VANADIUM TRIOXIDE

<b>I M P O R T A N T  D A T A</b>	<p><b>PHYSICAL STATE; APPEARANCE:</b> BLACK POWDER.</p> <p><b>PHYSICAL DANGERS:</b></p> <p><b>CHEMICAL DANGERS:</b> The substance decomposes on heating producing toxic fumes (vanadium oxides).</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established. MAK (V and its inorganic compounds): Carcinogen category: 2; Germ cell mutagen group: 2 (DFG 2005).</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation of its aerosol.</p> <p><b>INHALATION RISK:</b> A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance is irritating to the eyes , the skin and the respiratory tract .</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> The substance may have effects on the respiratory tract , resulting in chronic rhinitis and chronic bronchitis. This substance is possibly carcinogenic to humans.</p>
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<b>PHYSICAL PROPERTIES</b>	Melting point: 1970°C Density: 4.87 g/cm <sup>3</sup>	Solubility in water, g/100 ml at 20°C: 0.01 (very poor)
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<b>ENVIRONMENTAL DATA</b>	
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## NOTES

Depending on the degree of exposure, periodic medical examination is suggested. Respiratory symptoms may be delayed 1 day or more. See also ICSC 0596 Vanadium pentoxide.

Transport Emergency Card: TEC (R)-61GT5-III  
Card has been partially updated in January 2008: see GHS classification.

## ADDITIONAL INFORMATION

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<b>ICSC: 0455</b>	<b>VANADIUM TRIOXIDE</b>
(C) IPCS, CEC, 1994	

<b>IMPORTANT LEGAL NOTICE:</b>	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.
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# International Chemical Safety Cards

**ZINC POWDER**

ICSC: 1205



Blue powder  
Merrillite  
Zn  
Atomic mass: 65.4  
(powder)

ICSC # 1205  
CAS # 7440-66-6  
RTECS # [ZG8600000](#)  
UN # 1436 (zinc powder or dust)  
EC # 030-001-00-1  
October 24, 1994 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Many reactions may cause fire or explosion. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with acid(s), base (s) and incompatible substances (see Chemical Dangers).	Special powder, dry sand, NO other agents. NO water.
<b>EXPLOSION</b>	Risk of fire and explosion on contact with acid(s), base(s), water and incompatible substances.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Prevent deposition of dust.	In case of fire: cool drums, etc., by spraying with water but avoid contact of the substance with water.
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! STRICT HYGIENE!</b>	
• <b>INHALATION</b>	Metallic taste and metal fume fever. Symptoms may be delayed (see Notes).	Local exhaust.	Fresh air, rest. Refer for medical attention.
• <b>SKIN</b>	Dry skin.	Protective gloves.	Rinse and then wash skin with water and soap.
• <b>EYES</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Extinguish or remove all ignition sources. Do NOT wash away into sewer. Sweep spilled substance into containers. then remove to safe place. Personal protection: self-contained breathing apparatus.	Fireproof. Separated from acids, bases oxidants Dry.	Airtight. F symbol N symbol R: 15-17-50/53 S: 2-7/8-43-46-60-61 UN Hazard Class: 4.3 UN Subsidiary Risks: 4.2

**SEE IMPORTANT INFORMATION ON BACK**

**ICSC: 1205**

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

# International Chemical Safety Cards

## ZINC POWDER

ICSC: 1205

<p><b>I</b> <b>M</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>T</b> <b>D</b> <b>A</b> <b>T</b> <b>A</b></p>	<p><b>PHYSICAL STATE; APPEARANCE:</b> ODOURLESS GREY TO BLUE POWDER.</p> <p><b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air. If dry, it can be charged electrostatically by swirling, pneumatic transport, pouring, etc.</p> <p><b>CHEMICAL DANGERS:</b> Upon heating, toxic fumes are formed. The substance is a strong reducing agent and reacts violently with oxidants. Reacts with water and reacts violently with acids and bases forming flammable/explosive gas (hydrogen - see ICSC0001) Reacts violently with sulfur, halogenated hydrocarbons and many other substances causing fire and explosion hazard.</p> <p><b>OCCUPATIONAL EXPOSURE LIMITS:</b> TLV not established.</p>	<p><b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.</p> <p><b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Inhalation of fumes may cause metal fume fever. The effects may be delayed.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis.</p>
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<p><b>PHYSICAL PROPERTIES</b></p>	<p>Boiling point: 907°C Melting point: 419°C Relative density (water = 1): 7.14</p>	<p>Solubility in water: reaction Vapour pressure, kPa at 487°C: 0.1 Auto-ignition temperature: 460°C</p>
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<p><b>ENVIRONMENTAL DATA</b></p>	
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### NOTES

Zinc may contain trace amounts of arsenic, when forming hydrogen, may also form toxic gas arsine (see ICSC 0001 and ICSC 0222). Reacts violently with fire extinguishing agents such as water, halons, foam and carbon dioxide. The symptoms of metal fume fever do not become manifest until several hours later. Rinse contaminated clothes (fire hazard) with plenty of water.

Transport Emergency Card: TEC (R)-43GWS-II+III  
NFPA Code: H0; F1; R1;

### ADDITIONAL INFORMATION

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ICSC: 1205

ZINC POWDER

(C) IPCS, CEC, 1994

<p><b>IMPORTANT LEGAL NOTICE:</b></p>	<p>Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.</p>
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***APPENDIX D***  
***HOSPITAL INFORMATION AND MAP***  
***FIELD ACCIDENT REPORT***



FIELD ACCIDENT REPORT

This report is to be filled out by the designated Site Safety Officer after EVERY accident.

PROJECT NAME \_\_\_\_\_ PROJECT. NO. \_\_\_\_\_

Date of Accident \_\_\_\_\_ Time \_\_\_\_\_ Report By \_\_\_\_\_

Type of Accident (Check One):

Vehicular       Personal       Property

Name of Injured \_\_\_\_\_ DOB or Age \_\_\_\_\_

How Long Employed \_\_\_\_\_

Names of Witnesses \_\_\_\_\_

Description of Accident \_\_\_\_\_

Action Taken \_\_\_\_\_

Did the Injured Lose Any Time? \_\_\_\_\_ How Much (Days/Hrs.)? \_\_\_\_\_

Was Safety Equipment in Use at the Time of the Accident (Hard Hat, Safety Glasses, Gloves, Safety Shoes, etc.)? \_\_\_\_\_

(If not, it is the EMPLOYEE'S sole responsibility to process his/her claim through his/her Health and Welfare Fund.)

INDICATE STREET NAMES, DESCRIPTION OF VEHICLES, AND NORTH ARROW

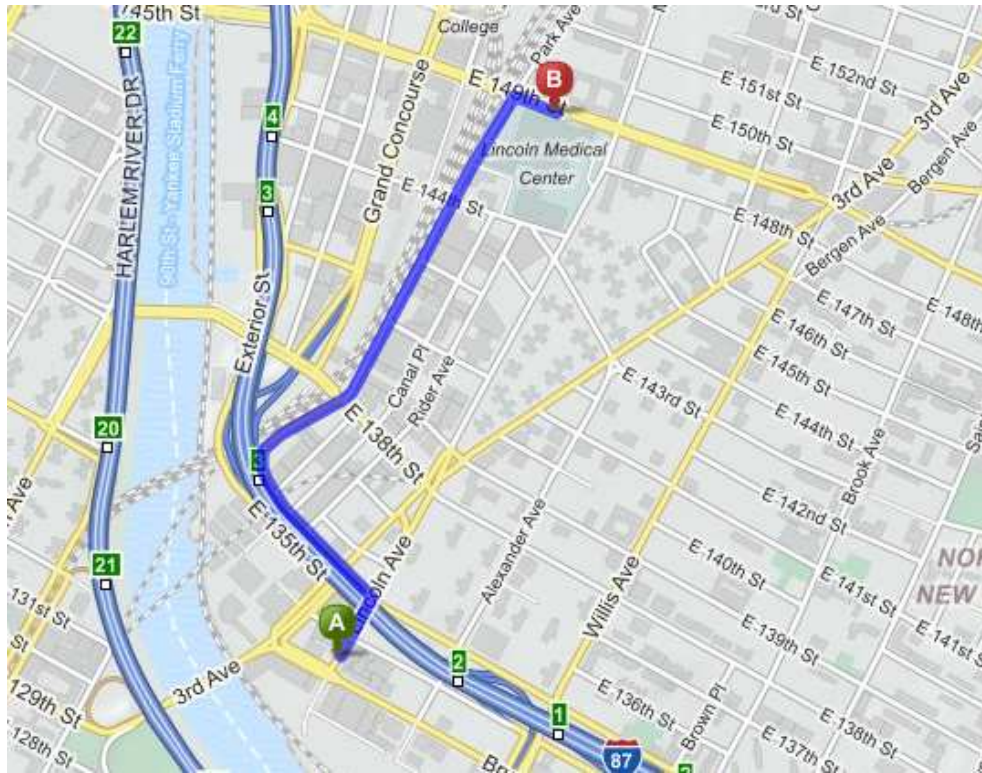
## HOSPITAL INFORMATION AND MAP


The hospital nearest the site is:

### LINCOLN MEDICAL AND MENTAL HEALTH CENTER


718-579-5016

0.92 Miles – About 3 Minutes




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-  1. Start out going **northeast** on **Lincoln Ave** toward **E 134th St.** 0.08 mi


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  -  2. Turn **left** onto **E 135th St.** 0.2 mi  
*New Life For Better Living is on the corner  
If you reach E 136th St you've gone a little too far*


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  -  3. **E 135th St** becomes **Park Ave.** 0.5 mi

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  -  4. Turn **right** onto **E 149th St.** 0.06 mi  
*E 149th St is just past E 146th St  
If you reach E 151st St you've gone about 0.1 miles  
too far*

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  -  5. **234 E 149TH ST** is on the right.  
*If you reach Morris Ave you've gone a little too far*