# 505 UNION AVENUE

**BROOKLYN, NEW YORK**

# Remedial Investigation Report

**NYC VCP Number: 14CVCP246K**
**OER Project Number: 11EHAZ316K**

**Prepared for:**
Express Builders
144 Spencer Street
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**Prepared by:**

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# LIST OF ACRONYMS

| Acronym | Definition |
|---|---|
| AOC | Area of Concern |
| CAMP | Community Air Monitoring Plan |
| COC | Contaminant of Concern |
| CPP | Citizen Participation Plan |
| CSM | Conceptual Site Model |
| DER-10 | New York State Department of Environmental Conservation Technical Guide 10 |
| FID | Flame Ionization Detector |
| GPS | Global Positioning System |
| HASP | Health and Safety Plan |
| HAZWOPER | Hazardous Waste Operations and Emergency Response |
| IRM | Interim Remedial Measure |
| NAPL | Non-aqueous Phase Liquid |
| NYC BCP | New York City Brownfield Cleanup Program |
| NYC DOHMH | New York City Department of Health and Mental Hygiene |
| NYC OER | New York City Office of Environmental Remediation |
| NYS DOH ELAP | New York State Department of Health Environmental Laboratory Accreditation Program |
| OSHA | Occupational Safety and Health Administration |
| PID | Photoionization Detector |
| QEP | Qualified Environmental Professional |
| RI | Remedial Investigation |
| RIR | Remedial Investigation Report |
| SCO | Soil Cleanup Objective |
| SPEED | Searchable Property Environmental Electronic Database |

# CERTIFICATION

I, Kristen DiScenza, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located at 505 Union Avenue, Brooklyn, NY, (OER Project Number 11EHAZ316K and NYC VCP Site No. 14CVCP246K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

| Kristen DiScenza | 5/1/14 | |
|---|---|---|
| Qualified Environmental Professional | Date | Signature |

# EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

**Site Location and Current Usage**

The Site is located at 505 Union Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2315 and Lot 21 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 9,375-square feet and is bounded by Block 2315 Lot 14, multi-story residential property, to the north, Block 2315 Lots 26 and 28, a multi-story mixed use property and parking lot, respectively, to the south, Union Avenue and green space (Mt Carmel Triangle) to the east, and Block 2315 Lots 31 and 33, a multi-story residential property and Church, respectively, to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is improved with a vacant 2-story commercial building which covers the entire Lot.

**Summary of Proposed Redevelopment Plan**

The proposed future use of the Site will consist of the renovation of the existing structure to include three additional floors. The first floor of the renovated structure will remain in commercial use with a parking garage. Thirty four residential apartments will be created on floors 2 through 5. To support the additional floors, new foundation structures (steel pile with concrete pile cap) will be installed. Concrete pile caps will be driven into place, therefore there will be little to no excavation of soils onsite, with the exception of the elevator pit which will require excavation to a depth of approximately 6 feet. below grade. Excavation at this location will likely be into the groundwater table, as groundwater at the Site ranges from 5.02 feet to 7.39 feet. Layout of the proposed site development is presented in Figure 3. The current zoning designation is M1-2/R6 residential. The proposed use is consistent with existing zoning for the property.

**Summary of Past Uses of Site and Areas of Concern**

EBC was able to establish a history for the Site dating back to 1887 based upon Sanborn maps. From at least 1905 to sometime before 1916, the Site was used as a junk yard and rag/paper warehouse. By 1951 the warehouse was demolished and the property was used as small storefront. The existing building was constructed in 1946 and was used by a lumber supply company. The property was used as a building materials warehouse from at least 1965 to 2011 when the building was vacated.

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths at least 8 feet below grade.

**Summary of the Work Performed under the Remedial Investigation**

Express Builders performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed seven soil borings across the entire project Site, and collected seven soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed four groundwater monitoring wells throughout the Site to establish groundwater flow and collected four groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed five sub-slab soil vapor probes across the Site and collected five sub-slab samples and three ambient air samples for chemical analysis.

**Summary of Environmental Findings**

1. Elevation of the property is approximately 14 feet.
2. Depth to groundwater ranges from 5.02 feet to 7.39 feet at the Site.
3. Groundwater flow, based upon regional groundwater contour maps, is generally from east to west beneath the Site.
4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of approximately 8 feet of historic fill underlain by native silty sands.


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6. Results of Soil/fill samples collected during the RI were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed no PCBs detected above Track1 SCOs. Three VOCs, acetone (95 micrograms per kilogram (µg/kg) or ppb, m&p-Xylenes (890 ppb) and o-Xylenes (450 ppb) were detected in two of the seven samples at concentrations above Track 1 Unrestricted Use SCOs. Several SVOCs including benz(a)anthracene (maximum [max.] of 62,000 ppb), benzo(a)pyrene (max. of 49,000 ppb), benzo(b)fluoranthene (max. of 58,000 ppb), benzo(k)fluoranthene (max. of 18,000 ppb), chrysene (max. of 59,000 ppb), dibenz(a,h)anthracene (max. of 7,800 ppb), dibenzofuran (9,200 ppb), fluoranthene (160,000 ppb), fluorene (160,000 ppb), indeno(1,2,3-cd)pyrene (max. of 29,000 ppb), phenanthrene (160,000 ppb), and pyrene (150,000 ppb) were detected above their respective Track Track 2 Restricted Residential Use SCOs. Four pesticides including 4,4'-DDD (2,600 ppb), 4,4'-DDE (780 ppb), 4,4'-DDT (max. of 9,200 ppb) and dieldrin (290 ppb) were detected in three of the seven soil samples above their respective Track 1 Unrestricted Use SCOs. 4,4'-DDT and dieldrin were also detected about Track 2 Restricted Residential SCOs in one of the seven samples. Nine metals including arsenic (max. of 37.9 parts per million [ppm]), barium (max. of 2,220 ppm), cadmium (max. of 9.12 ppm), chromium (max. of 159 ppm), copper (max. of 13,900 ppm), lead (max. of 6,860 ppm), mercury (max. of 6.76 ppm), nickel (max. of 74.1 ppm) and zinc (max. of 12,800 ppm) exceeded Track 1 Unrestricted Use SCOs in all seven samples. Of these metals, arsenic, barium, cadmium, copper, lead, mercury, and zinc also exceeded Track 2 Restricted Residential Use SCOs. Elevated concentrations of SVOCs and metals in boring B4 are evident of coal debris (historic fill) as identified in the borings log for this location attached in Appendix B. The results indicate SVOCs and metals hotspot in three borings B1, B4 and B5. Boring B1 is also a hotspot for pesticides. Overall, the soil findings were consistent with observations for historical fill sites in areas throughout NYC.
7. Data collected during the RI was compared to the New York State 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). Groundwater samples showed no


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VOCs, pesticides or PCBs detected above their respective GQS in any of the four groundwater samples. Five SVOCs including benzo(a)anthracene (max. of 2.4 ppb), benzo(b)fluoranthene (max. of 3.3 ppb), benzo(k)fluoranthene (max. of 1.1 ppb), chrysene (max. of 2.6 ppb), and indeno(1,2,3-cd)pyrene (max. of 1.6 ppb) were detected above GQS in one or more samples. Several metals were identified in one or more of the groundwater samples, but only aluminum, iron, manganese, and sodium exceeded their respective GQS in dissolved samples.

8. Soil vapor samples collected during the RI show low levels of petroleum compounds and chlorinated VOCs. Concentrations of petroleum-related VOCs (BTEX) ranged from 23.93 $\mu g/m^3$ to 36.46 $\mu g/m^3$ for sub-slab samples and 25.74 $\mu g/m^3$ to 43.04 $\mu g/m^3$ for ambient indoor air samples. Overall, the highest reported concentration was for acetone (639 $\mu g/m^3$ in one indoor air sample). Chlorinated VOCs including Tetrachloroethene (PCE) (max of 146 $\mu g/m^3$) trichloroethene (TCE) (max. of 6.9 $\mu g/m^3$), 1,1,1-Trichloroethane (max. of 3.7 $\mu g/m^3$) and carbon tetrachloride (max. of $\mu g/m^3$) were detected in one or more of the five sub-slab soil vapor samples as well as in the ambient indoor air samples. PCE and TCE were detected in the monitoring level range established by NYSDOH guidance matrix.


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# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND

Express builders has enrolled in the New York City Volunteer Cleanup Program (NYC VCP) to investigate and remediate a 0.22-acre Site located at 505 Union Avenue in the Williamsburg section of Brooklyn, New York. Mixed commercial and residential use is proposed for the property. The RI work was performed between June 12, 2012 and June 14, 2012. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

### 1.1 Site Location and Current Usage

The Site is located at 505 Union Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2315 and Lot 21 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 9,375-square feet and is bounded by Block 2315 Lot 14, multi-story residential property, to the north, Block 2315 Lots 26 and 28, a multi-story mixed use property and parking lot, respectively, to the south, Union Avenue and green space (Mt Carmel Triangle) to the east, and Block 2315 Lots 31 and 33, a multi-story residential property and Church, respectively, to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is improved with a vacant 2-story commercial building which covers the entire Lot.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of the renovation of the existing structure to include three additional floors. The first floor of the renovated structure will remain in commercial use with a parking garage. Thirty four residential apartments will be created on floors 2 through 5. To support the additional floors, new foundation structures (steel pile with concrete pile cap) will be installed. Concrete pile caps will be driven into place, therefore there will be little to no excavation of soils onsite, with the exception of the elevator pit which will require excavation to a depth of approximately 6 feet. below grade. Excavation at this location will likely be into the groundwater table, as groundwater at the Site ranges from 5.02 feet to 7.39

feet. Layout of the proposed site development is presented in Figure 3. The current zoning designation is M1-2/R6 residential. The proposed use is consistent with existing zoning for the property.

### 1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and commercial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. Based upon review of the NYCOER SPEED database, no hospitals or schools are located within a 500 ft radius of the Site. One day care facility, The Williamsburg Neighborhood Nursery School, is located within a 250 ft radius of the Site, at 10 Withers Street.

**Surrounding Property Usage**

| Direction | Property Description |
|---|---|
| **North –** Adjacent property | Block 2315, Lot 14 (525 Union Avenue) – Developed with a multi-story residential building. |
| **South –** Adjacent properties | Block 2315, Lots 26 and 28 (497 Union Avenue) – Developed with a multi-story mixed used building and parking lot, respectively. |
| **East –** Opposite side of Union Avenue | No Block and Lot Information Available - Mt Carmel Triangle, uncapped green space. |
| **West –** Adjacent property | Block 2315, Lots 31 and 33 (275-287 North 8th Street) – Developed with multi-story residential buildings and Our Lady of Mount Carmel Church. |


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# 2.0 SITE HISTORY

## 2.1 Past Uses and Ownership

A Phase I was completed in March 2012, EBC was able to establish a history for the Site dating back to 1887 based upon Sanborn maps. From at least 1905 to 1916, the Site was used as a junk yard and rag/paper warehouse. By 1951 the warehouse was demolished and the property was used as small storefront. The existing building was constructed in 1946 and was used by a lumber supply company. The property was used as a building materials warehouse from at least 1965 to 2011 when the building was vacated.

## 2.2 Previous Investigations

EBC has not been made aware of any previous subsurface investigations conducted at the Site.

## 2.3 Site Inspection

Mr. Kevin Waters of EBC performed the site inspection on Wednesday, March 28, 2012, beginning at approximately 8:00 am. The reconnaissance included a visual inspection of the Site, the sidewalk immediately in front of the Site, and the exterior of adjacent properties. At the time of the inspection, the entire footprint of the lot was developed with two vacant 2-story buildings and a large vacant warehouse building.

## 2.4 Areas of Concern

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths at least 8 feet below grade.

A copy of the Phase I is presented in Attachment A.


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# 3.0 PROJECT MANAGEMENT

## 3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kristen DiScenza.

## 3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

## 3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.


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## 4.0 REMEDIAL INVESTIGATION ACTIVITIES

Express Builders performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed seven soil borings across the entire project Site, and collected seven soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed four groundwater monitoring wells throughout the Site to establish groundwater flow and collected four groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed five sub-slab soil vapor probes across the Site and collected five sub-slab samples and three ambient air samples for chemical analysis.

### 4.1 Geophysical Investigation

A geophysical study was proposed in the approved Remedial Investigation Workplan, however was not completed during Remedial Investigation activities.

### 4.2 Borings and Monitoring Wells

**Drilling and Soil Logging**

On June 12, 2012, seven soil borings (B1 through B7) were performed in the approximate locations shown on Figure 5. The seven soil boring locations were chosen to gain representative soil quality information across the Site. For each of the seven borings, soil samples were collected continuously from grade to a final depth of 12 feet below existing grade using a four-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were detected for any of the boring locations.

One soil sample was retained from each soil boring representing the interval 0 to 4 feet below grade. The approved Remedial Investigation Workplan stated that soil samples collected from the 4 to 6 foot interval would be held and analyzed only if laboratory results from the 0 to 4 foot interval and 6 to 8 foot interval from the elevator pit indicated exceedences in Restricted

Residential SCOs. Exceedences in Restricted Residential SCOs were detected in the shallow samples from several borings, however at the time of the Remedial Investigation additional deeper soil intervals were not run for analysis. Boring logs were prepared by a Qualified Environmental Professional and are attached in Attachment B. A map showing the location of soil borings and monitor wells is shown in Figure 5.

**Groundwater Monitoring Well Construction**

Four temporary 1-inch diameter PVC monitoring wells (MW1 through MW4) with 10 feet of 0.010 slot screen were installed across the Site, set to intersect the water table. Since groundwater was encountered at approximately 6 feet below grade, monitoring wells were installed to a depth of 12 feet. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

**Survey**

A survey of the soil borings and groundwater monitoring wells was not conducted during the Remedial Investigation.

**Water Level Measurement**

Approximate groundwater level measurements were collected using a Solinst oil/water interface meter to ensure the surface of the water table was within the screened section of the monitoring well. No free product was observed within the three monitoring wells. Water level data is included in **Table 1**.

### 4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides


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sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

**Soil Sampling**

Seven soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2 through 5. Figure 5 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

The seven soil samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and target analyte list (TAL) metals.

**Groundwater Sampling**

Four groundwater samples were collected for chemical analysis during this RI. Groundwater samples were collected by installing a one-inch diameter PVC well, 6-feet below the water table interface (set at approximately 12 feet below grade). A groundwater sample was then collected from each temporary well utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. Groundwater sample collection data is reported in Tables 6 through 10. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Attachment C. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

**Soil Vapor Sampling**

Five sub-slab soil vapor probes were installed and five soil vapor samples were collected for chemical analysis during this RI as well as three ambient indoor air samples. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 11. Soil vapor sampling logs are included in Attachment D. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

The five sub-slab soil vapor implants were installed by drilling a 1/2 inch hole through the ground level concrete slab with a handheld drill and inserting 1/4 inch polyethylene tubing to no more than 2 inches below the base of the slab. The tubing was then sealed at the surface with hydrated granular bentonite. The approximate location of each of the soil vapor implants is shown on Figure 5. The vapor implants that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube.

Soil vapor sampling for the five implants installed on June 12, 2012, was conducted on June 14, 2012. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), 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. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested 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 (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all five sub-slab soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the

surface tube of each of the three vapor implants. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field note book. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The soil gas 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 (Attachment E). Samples were submitted to Phoenix for laboratory analysis of VOCs EPA Method TO-15.

**Chemical Analysis**

Chemical analytical work presented in this RIR has been performed in the following manner:

| Factor | Description |
|---|---|
| Quality Assurance Officer | The chemical analytical quality assurance is directed by Phoenix Environmental Laboratories |
| Chemical Analytical Laboratory | Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories |
| Chemical Analytical Methods | Soil analytical methods:<br>• TAL Metals by EPA Method 6010C (rev. 2007);<br>• VOCs by EPA Method 8260C (rev. 2006);<br>• SVOCs by EPA Method 8270D (rev. 2007);<br>• Pesticides by EPA Method 8081B (rev. 2000);<br>• PCBs by EPA Method 8082A (rev. 2000);<br>Groundwater analytical methods:<br>• TAL Metals by EPA Method 6010C (rev. 2007);<br>• VOCs by EPA Method 8260C (rev. 2006);<br>• SVOCs by EPA Method 8270D (rev. 2007); |

| | |
|---|---|
| | • Pesticides by EPA Method 8081B (rev. 2000);<br>• PCBs by EPA Method 8082A (rev. 2000);<br>Soil vapor analytical methods:<br>• VOCs by TO-15 VOC parameters. |

**Results of Chemical Analyses**

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 11, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Attachment E.


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# 5.0 ENVIRONMENTAL EVALUATION

## 5.1 Geological and Hydrogeological Conditions

### Stratigraphy

Subsurface soil at the Site consisted of historic fill, which was primarily comprised of brick, concrete, wood and other debris in a brown silty-sand matrix. The layer of historic fill extended to a depth ranging from ground surface to approximately 8 feet below grade. Native soil consisting of a brown silty sands is present below the historic fill layer.

### Hydrogeology

A table of water level data for all monitor wells is included in Table 1. The average depth to groundwater is 6 feet below grade and the range in depth is 5.02 feet to 7.39 feet. Groundwater flow, based upon regional groundwater contour maps, is generally from east to west.

## 5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 2 through 5. Results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. A copy of the laboratory report is provided in Attachment E. Figure 6 shows the location and posts the values for soil/fill that exceeds UUSCOs and RRSCOs.

Soil/fill samples collected during the RI showed no PCBs detected above Track1 Unrestricted Use SCOs. Three VOCs, acetone, m&p-Xylenes and o-Xylenes were detected in two of the seven samples at concentrations above Track 1 Unrestricted Use SCOs. Acetone was detected at 95 micrograms per kilogram (µg/kg), and m&p- and o-xylenes were detected at concentrations of 890 parts per billion (ppb) and 450 ppb, respectively. Several SVOCs including benz(a)anthracene (maximum [max.] of 62,000 ppb), benzo(a)pyrene (max. of 49,000 ppb), benzo(b)fluoranthene (max. of 58,000 ppb), benzo(k)fluoranthene (max. of 18,000 ppb), chrysene (max. of 59,000 ppb), dibenz(a,h)anthracene (max. of 7,800 ppb), dibenzofuran (9,200 ppb), fluoranthene (160,000 ppb), fluorene (160,000 ppb), indeno(1,2,3-cd)pyrene (max. of

29,000 ppb), phenanthrene (160,000 ppb), and pyrene (150,000 ppb) were detected above their respective Track 2 Restricted Residential Use SCOs. Four pesticides including 4,4'-DDD (2,600 ppb), 4,4'-DDE (780 ppb), 4,4'-DDT (max. of 9,200 ppb) and dieldrin (290 ppb) were detected in three of the seven soil samples above their respective Track 1 Unrestricted Use SCOs. 4,4'-DDT and dieldrin were also detected about Track 2 Restricted Residential SCOs in one of the seven samples. Nine metals including arsenic (max. of 37.9 parts per million [ppm]), barium (max. of 2,220 ppm), cadmium (max. of 9.12 ppm), chromium (max. of 159 ppm), copper (max. of 13,900 ppm), lead (max. of 6,860 ppm), mercury (max. of 6.76 ppm), nickel (max. of 74.1 ppm) and zinc (max. of 12,800 ppm) exceeded Track 1 Unrestricted Use SCOs in all seven samples. Of these metals, arsenic, barium, cadmium, copper, lead, mercury, and zinc also exceeded Track 2 Restricted Residential Use SCOs. Elevated concentrations of SVOCs and metals in boring B4 are evident of coal debris (historic fill) as identified in the borings log for this location attached in Appendix B. The results indicate SVOC and metal hotspots in three borings B1, B4 and B5. Boring B1 is also a hotspot for pesticides. Overall, the soil findings were consistent with observations for historical fill sites in areas throughout NYC.

### 5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 6 through 10. Figure 7 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Groundwater samples collected during the RI showed no VOCs, pesticides or PCBs detected above NYSDEC 6NYCRR Part 703.5 Groundwater Quality Standards (GQS) in any of the four groundwater samples. Five SVOCs including benzo(a)anthracene (max. of 2.4 ppb), benzo(b)fluoranthene (max. of 3.3 ppb), benzo(k)fluoranthene (max. of 1.1 ppb), chrysene (max. of 2.6 ppb), and indeno(1,2,3-cd)pyrene (max. of 1.6 ppb) were detected above GQS in one or more samples. Four dissolved metals were detected above GQS in one or more of the groundwater samples including, aluminum (0.22 ppb), iron (max. of 0.631 ppb), manganese (max. of 0.72 ppb), and sodium (max. of 41.9 ppb).

## 5.4 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 11. Figure 8 shows the location and posts the values for soil vapor samples with detected concentrations.

Soil vapor samples collected during the RI show low levels of petroleum compounds and chlorinated VOCs. Concentrations of petroleum-related VOCs (BTEX) ranged from 23.93 $\mu g/m^3$ to 36.46 $\mu g/m^3$ for sub-slab samples and 25.74 $\mu g/m^3$ to 43.04 $\mu g/m^3$ for ambient indoor air samples. Overall, the highest reported concentration was for acetone (639 $\mu g/m^3$ in one indoor air sample). Tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-Trichloroethane and carbon tetrachloride were detected in one or more of the five sub-slab soil vapor samples. Carbon tetrachloride, PCE and TCE were also detected in one or more of the ambient indoor air samples, however, at concentrations below the monitoring level ranges established within the New York State Department of Health (NYSDOH) Final Guidance on Soil Vapor Intrusion (October 2006) values (AGVs), with the exception of TCE in sample AA3, which was detected at a concentration of 8.75 $\mu g/m^3$. 1,1,1-Trichloroethane and carbon tetrachloride were detected in sub-slab soil vapor samples at maximum concentrations of 3.71 $\mu g/m^3$ and 0.629 $\mu g/m^3$, respectively, below NYSDOH AGVs. PCE and TCE were detected slightly above NYSDOH AGVs in one sub-slab sample, SS2, at concentrations of 146 $\mu g/m^3$ and 6.93 $\mu g/m^3$, respectively.

## 5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

## 5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.


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# ***TABLES***

Table 1
505 Union Avenue,
Brooklyn, NY
Soil Boring / Well Information

| SAMPLE ID | Date | Total Depth (ft) | Diameter (in) | Construction Materials | Screen Length (ft) | DTW (ft) |
|---|---|---|---|---|---|---|
| B1 | 6/12/2012 | 12 | 2 | Geoprobe | - | - |
| B2 | 6/12/2012 | 12 | 2 | Geoprobe | - | - |
| B3 | 6/12/2012 | 12 | 2 | Geoprobe | - | - |
| B4 | 6/12/2012 | 12 | 2 | Geoprobe | - | - |
| B5 | 6/12/2012 | 12 | 2 | Geoprobe | - | - |
| B6 | 6/12/2012 | 12 | 2 | Geoprobe | - | - |
| B7 | 6/12/2012 | 12 | 2 | Geoprobe | - | - |
| | | | | | | |
| MW1 | 6/12/2012 | 12 | 1 | PVC | 10.00 | 5.63 |
| MW2 | 6/12/2012 | 12 | 1 | PVC | 10.00 | 5.02 |
| MW3 | 6/12/2012 | 12 | 1 | PVC | 10.00 | 6.67 |
| MW4 | 6/12/2012 | 12 | 1 | PVC | 10.00 | 7.39 |

TABLE 2
505 Union Avenue,
Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | B4 | | B5 | | B6 | | B7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,1,1,2-Tetrachlorothane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,1,1-Trichloroethane | 680 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,1,2,2-Tetrachloroethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,1,2-Trichloroethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,1-Dichloroethane | 270 | 26,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,1-Dichloroethene | 330 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,1-Dichloropropene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2,3-Trichlorobenzene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2,3-Trichloropropane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2,4-Trichlorobenzene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | **700** | 250 | ND | 5.6 | ND | 5.6 |
| 1,2-Dibromo-3-chloropropane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2-Dibromoethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2-Dichloroethane | 20 | 3,100 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,2-Dichloropropane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,3-Dichlorobenzene | 2,400 | 4,900 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,3-Dichloropropane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 2,2-Dichloropropane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 2-Chlorotoluene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 2-Hexanone (Methyl Butyl Ketone) | | | ND | 27 | ND | 27 | ND | 27 | ND | 28 | ND | 27 | ND | 28 | ND | 28 |
| 2-Isopropyltoluene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 4-Chlorotoluene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| 4-Methyl-2-Pentanone | | | ND | 27 | ND | 27 | ND | 27 | ND | 28 | ND | 27 | ND | 28 | ND | 28 |
| Acetone | 50 | 100,000 | **95** | 27 | ND | 27 | ND | 27 | ND | 28 | ND | 27 | ND | 28 | ND | 28 |
| Acrylonitrile | | | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 |
| Benzene | 60 | 4,800 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Bromobenzene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Bromochloromethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Bromodichloromethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Bromoform | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Bromomethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Carbon Disulfide | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Carbon tetrachloride | 760 | 2,400 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Chlorobenzene | 1,100 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Chloroethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Chloroform | 370 | 49,000 | **6.2** | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Chloromethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| cis-1,2-Dichloroethene | 250 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| cis-1,3-Dichloropropene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Dibromochloromethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Dibromomethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Dichlorodifluoromethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Ethylbenzene | 1,000 | 41,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Hexachlorobutadiene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Isopropylbenzene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| m&p-Xylenes | 260 | 100,000 | ND | 5.5 | ND | 5.5 | **5.8** | 5.5 | ND | 5.6 | **890** | 250 | ND | 5.6 | ND | 5.6 |
| Methyl Ethyl Ketone (2-Butanone) | 120 | 100,000 | ND | 27 | ND | 27 | ND | 27 | ND | 28 | ND | 27 | ND | 28 | ND | 28 |
| Methyl t-butyl ether (MTBE) | 930 | 100,000 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 |
| Methylene chloride | 50 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Naphthalene | 12,000 | 100,000 | **23** | 5.5 | ND | 5.5 | ND | 5.5 | **22** | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| n-Butylbenzene | 12,000 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| n-Propylbenzene | 3,900 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| o-Xylene | 260 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | **450** | 250 | ND | 5.6 | ND | 5.6 |
| p-Isopropyltoluene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| sec-Butylbenzene | 11,000 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Styrene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| tert-Butylbenzene | 5,900 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Tetrachloroethene | 1,300 | 19,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Tetrahydrofuran (THF) | | | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 |
| Toluene | 700 | 100,000 | ND | 5.5 | ND | 5.5 | **15** | 5.5 | ND | 5.6 | **390** | 250 | ND | 5.6 | ND | 5.6 |
| Total Xylenes | | | ND | 5.5 | ND | 5.5 | **5.8** | 5.5 | ND | 5.6 | **1,340** | 250 | ND | 5.6 | ND | 5.6 |
| trans-1,2-Dichloroethene | 190 | 100,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| trans-1,3-Dichloropropene | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| trabs-1,4-dichloro-2-butene | | | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 | ND | 11 |
| Trichloroethene | 470 | 21,000 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Trichlorofluoromethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Trichlorotrifluoroethane | | | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| Vinyl Chloride | 20 | 900 | ND | 5.5 | ND | 5.5 | ND | 5.5 | ND | 5.6 | ND | 5.4 | ND | 5.6 | ND | 5.6 |
| **Total BTEX Concentration** | | | **0** | | **0** | | **20.8** | | **0** | | **1,730** | | **0** | | **0** | |
| **Total VOCs Concentration** | | | **124.2** | | **0** | | **26.6** | | **22** | | **3,770** | | **0** | | **0** | |

**Notes:**

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
ND - Not-detected
RL - Reporting Limit
**Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value**
**Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value**

TABLE 3
505 Union Avenue,
Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | B4 | | B5 | | B6 | | B7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,2,4,5-Tetrachlorobenzene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 1,2,4-Trichlorobenzene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 1,2-Dichlorobenzene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 1,2-Diphenylhydrazine | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 1,3-Dichlorobenzene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 1,4-Dichlorobenzene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2,4,5-Trichlorophenol | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2,4,6-Trichlorophenol | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2,4-Dichlorophenol | | | ND | 510 | ND | 250 | ND | 250 | **6,900** | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2,4-Dimethylphenol | | | ND | 1200 | ND | 580 | ND | 580 | ND | 1200 | ND | 1100 | ND | 580 | ND | 590 |
| 2,4-Dinitrophenol | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2,4-Dinitrotoluene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2,6-Dinitrotoluene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2-Chloronaphthalene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2-Chlorophenol | | | **640** | 510 | ND | 250 | ND | 250 | **6,600** | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2-Methylnaphthalene | | | ND | 510 | ND | 250 | ND | 250 | **8,300** | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2-Methylphenol (o-cresol) | 330 | 100,000 | ND | 1200 | ND | 580 | ND | 580 | ND | 1200 | ND | 1100 | ND | 580 | ND | 590 |
| 2-Nitroaniline | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 2-Nitrophenol | | | ND | 730 | ND | 360 | ND | 360 | **5,400** | 740 | ND | 710 | ND | 360 | ND | 370 |
| 3&4-Methylphenol (m&p-cresol) | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 3,3'-Dichlorobenzidine | | | ND | 1200 | ND | 580 | ND | 580 | ND | 1200 | ND | 1100 | ND | 580 | ND | 590 |
| 3-Nitroaniline | | | ND | 2100 | ND | 1000 | ND | 1100 | ND | 2100 | ND | 2100 | ND | 1100 | ND | 1100 |
| 4,6-Dinitro-2-methylphenol | | | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |
| 4-Bromophenyl phenyl ether | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 4-Chloro-3-methylphenol | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 4-Chloroaniline | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| 4-Chlorophenyl phenyl ether | | | ND | 1200 | ND | 580 | ND | 580 | ND | 1200 | ND | 1100 | ND | 580 | ND | 590 |
| 4-Nitroaniline | | | ND | 2100 | ND | 1000 | ND | 1100 | ND | 2100 | ND | 2100 | ND | 1100 | ND | 1100 |
| 4-Nitrophenol | | | 970 | 510 | ND | 250 | ND | 250 | **18,000** | 520 | **740** | 500 | **280** | 260 | ND | 260 |
| Acenaphthene | 20,000 | 100,000 | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Acenaphthylene | 100,000 | 100,000 | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Acetophenone | | | ND | 2100 | ND | 1000 | ND | 1100 | ND | 2100 | ND | 2100 | ND | 1100 | ND | 1100 |
| Aniline | | | **2,200** | 510 | **340** | 250 | ND | 250 | **28,000** | 520 | **3,200** | 500 | **690** | 260 | ND | 260 |
| Anthracene | 100,000 | 100,000 | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |
| Benz(a)anthracene | 1,000 | 1,000 | **5,300** | 510 | **1,200** | 250 | **410** | 250 | **62,000** | 520 | **12,000** | 500 | **2,200** | 260 | **670** | 260 |
| Benzidine | | | ND | 880 | ND | 430 | ND | 440 | ND | 890 | ND | 850 | ND | 440 | ND | 440 |
| Benzo(a)pyrene | 1,000 | 1,000 | **4,200** | 510 | **980** | 250 | **410** | 250 | **49,000** | 520 | **12,000** | 500 | **2,000** | 260 | **530** | 260 |
| Benzo(b)fluoranthene | 1,000 | 1,000 | **5,600** | 510 | **1,200** | 250 | **590** | 250 | **58,000** | 520 | **16,000** | 500 | **2,300** | 260 | **630** | 260 |
| Benzo(ghi)perylene | 100,000 | 100,000 | **2,800** | 510 | **780** | 250 | ND | 250 | **36,000** | 520 | **7,200** | 500 | **1,300** | 260 | **430** | 260 |
| Benzo(k)fluoranthene | 800 | 3,900 | **2,100** | 510 | **430** | 250 | ND | 250 | **18,000** | 520 | **3,400** | 500 | **790** | 260 | ND | 260 |
| Benzoic acid | | | ND | 2,100 | ND | 1,000 | ND | 1,100 | ND | 2100 | ND | 2100 | ND | 1,100 | ND | 1,100 |
| Benzyl butyl phthalate | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Bis(2-chloroethoxy)methane | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Bis(2-chloroethyl)ether | | | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |
| Bis(2-chloroisopropyl)ether | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Bis(2-ethylhexyl)phthalate | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Carbazole | | | **1,200** | 1100 | ND | 540 | ND | 550 | **26,000** | 1100 | ND | 1100 | ND | 550 | ND | 550 |
| Chrysene | 1,000 | 3,900 | **5,100** | 510 | **1,200** | 250 | **420** | 250 | **59,000** | 520 | **11,000** | 500 | **2,300** | 260 | **610** | 260 |
| Dibenz(a,h)anthracene | 330 | 330 | 1,000 | 510 | ND | 250 | ND | 250 | **7,800** | 520 | **2,300** | 500 | **340** | 260 | ND | 260 |
| Dibenzofuran | 7,000 | 59,000 | 600 | 510 | ND | 250 | ND | 250 | **9,200** | 520 | ND | 500 | ND | 260 | ND | 260 |
| Diethyl phthalate | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Dimethylphthalate | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Di-n-butylphthalate | | | ND | 510 | **1,300** | 250 | ND | 250 | **17,000** | 520 | ND | 500 | **530** | 260 | ND | 260 |
| Di-n-octylphthalate | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Fluoranthene | 100,000 | 100,000 | **11,000** | 510 | **2,700** | 250 | **820** | 250 | **160,000** | 520 | **24,000** | 500 | **3,700** | 260 | **1,100** | 260 |
| Fluorene | 30,000 | 100,000 | **1,000** | 510 | ND | 250 | ND | 250 | **160,000** | 520 | **770** | 500 | **260** | 260 | ND | 260 |
| Hexachlorobenzene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Hexachlorobutadiene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Hexachlorocyclopentadiene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Hexachloroethane | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Indeno(1,2,3-cd)pyrene | 500 | 500 | **2,600** | 510 | **620** | 250 | ND | 250 | **29,000** | 520 | **6,800** | 500 | **1,100** | 260 | **340** | 260 |
| Isophorone | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Naphthalene | 12,000 | 100,000 | **890** | 510 | ND | 250 | ND | 250 | **19,000** | 520 | ND | 500 | **270** | 260 | ND | 260 |
| Nitrobenzene | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| N-Nitrosodimethylamine | | | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |
| N-Nitrosodi-n-propylamine | | | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| N-Nitrosodiphenylamine | | | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |
| Pentachloronitrobenzene | | | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |
| Pentachlorophenol | 800 | 6,700 | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |
| Phenanthrene | 100,000 | 100,000 | **11,000** | 510 | **1,900** | 250 | **810** | 250 | **160,000** | 520 | **12,000** | 500 | **4,300** | 260 | **1,100** | 260 |
| Phenol | 330 | 100,000 | ND | 510 | ND | 250 | ND | 250 | ND | 520 | ND | 500 | ND | 260 | ND | 260 |
| Pyrene | 100,000 | 100,000 | **9,100** | 510 | **2,300** | 250 | **720** | 250 | **150,000** | 520 | **23,000** | 500 | **3,300** | 260 | **970** | 260 |
| Pyridine | | | ND | 730 | ND | 360 | ND | 360 | ND | 740 | ND | 710 | ND | 360 | ND | 370 |

**Notes:**

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

ND - Not-detected

RL - Reporting Limit

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

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

TABLE 4
505 Union Avenue,
Brooklyn, New York
Soil Analytical Results
Pesticides PCBs

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | B4 | | B5 | | B6 | | B7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | | (0-4') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 4,4' -DDD | 3.3 | 13,000 | **2,600** | 350 | ND | 1.8 | ND | 1.8 | ND* | 18 | ND* | 17 | ND | 3.3 | ND | 3.3 |
| 4,4' -DDE | 3.3 | 8,900 | **780** | 350 | ND | 1.8 | **2.1** | 1.8 | ND* | 18 | ND* | 17 | ND | 3.3 | ND | 3.3 |
| 4,4' -DDT | 3.3 | 7,900 | **9,200** | 1700 | **11** | 1.8 | **13** | 1.8 | ND* | 18 | ND* | 17 | ND | 3.3 | ND | 3.3 |
| a-BHC | 20 | 480 | ND | 17 | ND | 3.5 | ND | 3.5 | ND* | 9 | ND* | 8.6 | ND | 3.5 | ND | 3.6 |
| Alachlor | | | ND | 17 | ND | 3.5 | ND | 3.5 | ND* | 9 | ND* | 8.6 | ND | 3.5 | ND | 3.6 |
| Aldrin | 5 | 97 | ND | 5.4 | ND | 1.1 | ND | 1.1 | ND* | 2.8 | ND* | 2.7 | ND | 1.1 | ND | 1.1 |
| b-BHC | 36 | 360 | ND | 17 | ND | 3.5 | ND | 3.5 | ND* | 9 | ND* | 8.6 | ND | 3.5 | ND | 3.6 |
| Chlordane | | | ND | 54 | ND | 11 | **100** | 11 | ND* | 28 | ND* | 27 | ND | 11 | ND | 11 |
| d-BHC | 40 | 100,000 | ND | 17 | ND | 3.5 | ND | 3.5 | ND* | 9 | ND* | 8.6 | ND | 3.5 | ND | 3.6 |
| Dieldrin | 5 | 200 | **290** | 54 | ND | 1.1 | ND | 1.1 | ND* | 2.8 | ND* | 2.7 | ND | 1.1 | ND | 1.1 |
| Endosulfan I | 2,400 | 24,000 | ND | 17 | ND | 3.5 | ND | 3.5 | ND* | 9 | ND* | 8.6 | ND | 3.5 | ND | 3.6 |
| Endosulfan II | 2,400 | 24,000 | ND | 35 | ND | 7 | ND | 7 | ND* | 18 | ND* | 17 | ND | 7.1 | ND | 7.2 |
| Endosulfan sulfate | 2,400 | 24,000 | ND | 35 | ND | 7 | ND | 7 | ND* | 18 | ND* | 17 | ND | 7.1 | ND | 7.2 |
| Endrin | 14 | 11,000 | ND | 35 | ND | 7 | ND | 7 | ND* | 18 | ND* | 17 | ND | 7.1 | ND | 7.2 |
| Endrin aldehyde | | | ND | 35 | ND | 7 | ND | 7 | ND* | 18 | ND* | 17 | ND | 7.1 | ND | 7.2 |
| Endrin ketone | | | ND | 35 | ND | 7 | ND | 7 | ND* | 18 | ND* | 17 | ND | 7.1 | ND | 7.2 |
| g-BHC | 100 | 280 | ND | 5.4 | ND | 1.1 | ND | 1.1 | ND* | 2.8 | ND* | 2.7 | ND | 1.1 | ND | 1.1 |
| Heptachlor | 42 | 420 | ND | 11 | ND | 2.2 | ND | 2.2 | ND* | 5.6 | ND* | 5.4 | ND | 2.2 | ND | 2.2 |
| Heptachlor epoxide | | | ND | 17 | ND | 3.5 | ND | 3.5 | ND* | 9 | ND* | 8.6 | ND | 3.5 | ND | 3.6 |
| Methoxychlor | | | ND | 170 | ND | 44 | ND | 35 | ND* | 260 | ND* | 86 | ND | 35 | ND | 36 |
| Toxaphene | | | ND | 170 | ND | 35 | ND | 35 | ND* | 90 | ND* | 86 | ND | 35 | ND | 36 |
| PCB-1016 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1221 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1232 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1242 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1248 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1254 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1260 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1262 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |
| PCB-1268 | 100 | 1,000 | ND | 72 | ND | 73 | ND | 73 | ND | 75 | ND | 71 | ND | 74 | ND | 75 |

**Notes:**

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

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

ND - Non-Detect

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

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

TABLE 5
505 Union Avenue,
Brooklyn, New York
Soil Analytical Results
Metals

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | B4 | | B5 | | B6 | | B7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-4') mg/Kg | | (0-4') mg/Kg | | (0-4') mg/Kg | | (0-4') mg/Kg | | (0-4') mg/Kg | | (0-4') mg/Kg | | (0-4') mg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| Aluminum | | | **6,260** | 50 | **5,790** | 59 | **6,680** | 48 | **5,130** | 56 | **5,190** | 54 | **6,370** | 55 | **7,130** | 55 |
| Antimony | | | BDL | 3.3 | BDL | 3.9 | BDL | 3.2 | BDL | 15 | BDL | 3.6 | BDL | 3.7 | BDL | 3.6 |
| Arsenic | 13 | 16 | **25.7** | 0.66 | **17.4** | 0.78 | **37.9** | 0.65 | **23.5** | 0.75 | **6.55** | 0.73 | **6.7** | 0.73 | **4.9** | 0.73 |
| Barium | 350 | 400 | **203** | 0.33 | **2,220** | 3.9 | **124** | 0.32 | **1,010** | 0.37 | **219** | 0.36 | **240** | 0.37 | **769** | 0.36 |
| Beryllium | 7.2 | 72 | BDL | 0.26 | BDL | 0.31 | BDL | 0.26 | **1.74** | 0.3 | BDL | 0.29 | BDL | 0.29 | BDL | 0.29 |
| Cadmium | 2.5 | 4.3 | BDL | 0.33 | **0.51** | 0.39 | **0.84** | 0.32 | **9.12** | 0.37 | BDL | 0.36 | **0.4** | 0.37 | BDL | 0.36 |
| Calcium | | | **63,200** | 50 | **7,520** | 5.9 | **28,500** | 48 | **14,400** | 56 | **27,800** | 54 | **32,500** | 55 | **22,800** | 55 |
| Chromium | 30 | 180 | **33.6** | 0.33 | **35.4** | 0.39 | **47.9** | 0.32 | **159** | 3.7 | **17.8** | 0.36 | **21.5** | 0.37 | **14.6** | 0.36 |
| Cobalt | | | **8.56** | 0.33 | **7.71** | 0.39 | **4.34** | 0.32 | **11.8** | 0.37 | **4.08** | 0.36 | **3.93** | 0.37 | **4.28** | 0.36 |
| Copper | 50 | 270 | **187** | 3.3 | **389** | 3.9 | **70.9** | 0.32 | **13,900** | 37 | **62.8** | 0.36 | **132** | 0.37 | **18.6** | 0.36 |
| Iron | | | **108,000** | 500 | **45,100** | 59 | **12,500** | 48 | **58,200** | 56 | **29,900** | 54 | **15,200** | 55 | **13,300** | 55 |
| Lead | 63 | 400 | **6,860** | 33 | **407** | 3.9 | **228** | 3.2 | **2,490** | 37 | **198** | 3.6 | **323** | 3.7 | **139** | 0.36 |
| Magnesium | | | **6,650** | 50 | **2,260** | 5.9 | **2,830** | 4.8 | **2,800** | 5.6 | **2,650** | 5.4 | **2,760** | 5.5 | **3,210** | 5.5 |
| Manganese | 1,600 | 2,000 | **614** | 3.3 | **487** | 3.9 | **226** | 3.2 | **630** | 3.7 | **265** | 3.6 | **224** | 3.7 | **229** | 3.6 |
| Mercury | 0.18 | 0.81 | **0.82** | 0.08 | **1.58** | 0.06 | **0.54** | 0.08 | **6.76** | 0.17 | **0.16** | 0.08 | **1.13** | 0.06 | **0.15** | 0.08 |
| Nickel | 30 | 310 | **22.8** | 0.33 | **41.3** | 0.39 | **11** | 0.32 | **74.1** | 0.37 | **17.9** | 0.36 | **12.5** | 0.37 | **14.7** | 0.36 |
| Potassium | | | **1,060** | 5 | **1,090** | 5.9 | **900** | 4.8 | **863** | 5.6 | **1,200** | 5.4 | **1,340** | 5.5 | **1,090** | 5.5 |
| Selenium | 3.9 | 180 | BDL | 1.3 | BDL | 1.6 | BDL | 1.3 | BDL | 1.5 | BDL | 1.5 | BDL | 1.5 | BDL | 1.5 |
| Silver | 2 | 180 | BDL | 0.8 | BDL | 0.8 | BDL | 0.32 | BDL | 1.5 | BDL | 0.36 | BDL | 0.37 | BDL | 0.36 |
| Sodium | | | **395** | 5 | **293** | 5.9 | **316** | 4.8 | **276** | 5.6 | **312** | 5.4 | **471** | 5.5 | **549** | 5.5 |
| Thallium | | | BDL | 3 | BDL | 3.5 | BDL | 2.9 | BDL | 3.4 | BDL | 3.3 | BDL | 3.3 | BDL | 3.3 |
| Vanadium | | | **50.6** | 0.33 | **20.7** | 0.39 | **17.8** | 0.32 | **52.6** | 0.37 | **21** | 0.36 | **19.3** | 0.37 | **20.7** | 0.36 |
| Zinc | 109 | 10,000 | **429** | 3.3 | **3,880** | 39 | **125** | 3.2 | **12,800** | 37 | **290** | 3.6 | **381** | 3.7 | **184** | 3.6 |

**Notes:**

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

BRL - Below Reporting Limit

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

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

TABLE 6
505 Union Avenue,
Brooklyn, New York
Groundwater Analytical Results
Volatile Organic Compounds

| Compound | NYSDEC Groundwater Quality Standards µg/L | GW-1 µg/L | | GW-2 µg/L | | GW-3 µg/L | | GW-4 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,1,1,2-Tetrachlorothane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,1-Trichloroethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,2,2-Tetrachloroethane | 5 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |
| 1,1,2-Trichloroethane | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloropropene | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,3-Trichlorobenzene | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,3-Trichloropropane | 0.04 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trichlorobenzene | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trimethylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dibromo-3-chloropropane | 0.04 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichloroethane | 0.6 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichloropropane | 0.94 | ND | 0.6 | ND | 0.6 | ND | 0.6 | ND | 0.6 | ND | 0.6 |
| 1,2-Dibromoethane | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3,5-Trimethylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3-Dichlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3-Dichloropropane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,4-Dichlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 2,2-Dichloropropane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 2-Chlorotoluene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 2-Hexanone (Methyl Butyl Ketone) | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Isopropyltoluene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 4-Chlorotoluene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 4-Methyl-2-Pentanone | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Acetone | | ND | 25 | ND | 25 | ND | 25 | ND | 25 | ND | 25 |
| Acrylonitrile | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Benzene | 1 | ND | 0.7 | ND | 0.7 | ND | 0.7 | ND | 0.7 | ND | 0.7 |
| Bromobenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromochloromethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromodichloromethane | | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |
| Bromoform | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromomethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Carbon Disulfide | 60 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Carbon tetrachloride | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloroethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloroform | 7 | ND | 1 | **6.6** | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloromethane | 60 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| cis-1,2-Dichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| cis-1,3-Dichloropropene | | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |
| Dibromochloromethane | | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |
| Dibromomethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Dichlorodifluoromethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Ethylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Hexachlorobutadiene | 0.5 | ND | 0.4 | ND | 0.4 | ND | 0.4 | ND | 0.4 | ND | 0.4 |
| Isopropylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| m&p-Xylenes | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Methyl Ethyl Ketone (2-Butanone) | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Methyl t-butyl ether (MTBE) | 10 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Methylene chloride | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Naphthalene | 10 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| n-Butylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| n-Propylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| o-Xylene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| p-Isopropyltoluene | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| sec-Butylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Styrene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| tert-Butylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Tetrachloroethene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Tetrahydrofuran (THF) | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Toluene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Total Xylenes | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| trans-1,2-Dichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| trans-1,3-Dichloropropene | 0.4 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |
| trans-1,4-dichloro-2-butene | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Trichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Trichlorofluoromethane | 5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Trichlorotrifluoroethane | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Vinyl Chloride | 2 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |

**Notes:**
ND - Not detected
**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

TABLE 7
505 Union Avenue,
Brooklyn, New York
Groundwater Analytical Result
Semi-Volatile Organic Compounds

| Compound | NYSDEC Groundwater Quality Standards µg/L | GW-1 µg/L | | GW-2 µg/L | | GW-3 µg/L | | GW-4 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,2,4,5-Tetrachlorobenzene | | ND | 1.6 | ND | 1.6 | ND | 1.6 | ND | 1.6 | ND | 1.6 |
| 1,2,4-Trichlorobenzene | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 1,2-Dichlorobenzene | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 1,3-Dichlorobenzene | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 1,4-Dichlorobenzene | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2,4,5-Trichlorophenol | 3 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4,6-Trichlorophenol | 3 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4-Dichlorophenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4-Dimethylphenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4-Dinitrophenol | | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 2,4-Dinitrotoluene | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2,6-Dinitrotoluene | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Chloronaphthalene | 10 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Chlorophenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2-Methylnaphthalene | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Methylphenol (o-cresol) | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2-Nitroaniline | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 2-Nitrophenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 3&4-Methylphenol (m&p-cresol) | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 3,3'-Dichlorobenzidine | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 3-Nitroaniline | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 4,6-Dinitro-2-methylphenol | | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 4-Bromophenyl phenyl ether | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 4-Chloro-3-methylphenol | | ND | 20 | ND | 20 | ND | 20 | ND | 20 | ND | 20 |
| 4-Chloroaniline | 5 | ND | 20 | ND | 20 | ND | 20 | ND | 20 | ND | 20 |
| 4-Chlorophenyl phenyl ether | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 4-Nitroaniline | 5 | ND | 20 | ND | 20 | ND | 20 | ND | 20 | ND | 20 |
| 4-Nitrophenol | | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| Acenaphthene | 20 | ND | 0.05 | ND | 0.05 | **0.33** | 0.05 | **0.2** | 0.05 | **0.45** | 0.05 |
| Acenaphthylene | | ND | 0.05 | ND | 0.05 | **0.42** | 0.05 | **0.1** | 0.05 | **0.57** | 0.05 |
| Acetophenone | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Aniline | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Anthracene | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Benzo(a)anthracene | 0.002 | **0.15** | 0.04 | **0.1** | 0.04 | **2.4** | 0.04 | **2.4** | 0.04 | **3** | 0.04 |
| Benzidine | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| Benzo(a)pyrene | | **0.09** | 0.05 | **0.09** | 0.05 | **1.7** | 0.05 | **2.6** | 0.05 | **2.2** | 0.05 |
| Benzo(b)fluoranthene | 0.002 | **0.16** | 0.05 | **0.12** | 0.05 | **2.3** | 0.05 | **3.3** | 0.05 | **2.7** | 0.05 |
| Benzo(g,h,i)perylene | | ND | 3 | ND | 3 | ND | 3 | ND | 3 | ND | 3 |
| Benzo(k)fluoranthene | 0.002 | **0.07** | 0.05 | ND | 0.05 | **0.74** | 0.05 | **1.1** | 0.05 | **1.1** | 0.05 |
| Benzoic Acid | | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| Benzyl Butyl phthalate | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-chloroethoxy)methane | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-chloroethyl)ether | 1 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-chloroisopropyl)ether | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-ethylhexyl)phthalate | 5 | ND | 1.6 | ND | 1.6 | ND | 1.6 | ND | 1.6 | ND | 1.6 |
| Carbazole | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Chrysene | 0.002 | **0.15** | 0.05 | **0.09** | 0.05 | **2.1** | 0.05 | **2.3** | 0.05 | **2.6** | 0.05 |
| Dibenzo(a,h)anthracene | | **0.02** | 0.01 | ND | 0.01 | **0.33** | 0.01 | **0.55** | 0.01 | **0.41** | 0.01 |
| Dibenzofuran | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Diethylphthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Dimethylphthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Di-n-butylphthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Di-n-octylphthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Fluoranthene | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | 5.2 | 5 |
| Hexachlorobenzene | 0.04 | ND | 0.06 | ND | 0.06 | ND | 0.06 | ND | 0.06 | ND | 0.06 |
| Fluorene | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Hexachlorobutadiene | 0.5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Hexachlorocyclopentadiene | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Hexachloroethane | 5 | ND | 2.4 | ND | 2.4 | ND | 2.4 | ND | 2.4 | ND | 2.4 |
| Indeno(1,2,3-cd)pyrene | 0.002 | **0.07** | 0.05 | ND | 0.05 | **0.85** | 0.05 | **1.6** | 0.05 | **1.1** | 0.05 |
| Isophorone | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Naphthalene | 10 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Nitrobenzene | 0.4 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| N-Nitrosodimethylamine | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| N-Nitrosodi-n-propylamine | | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| N-Nitrosodiphenylamine | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Pentachloronitrobenzene | | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| Pentachlorophenol | | ND | 0.8 | ND | 0.8 | ND | 0.8 | ND | 0.8 | ND | 0.8 |
| Phenanthrene | 50 | **0.27** | 0.05 | **0.22** | 0.05 | **3.3** | 0.05 | **2.2** | 0.05 | **4.3** | 0.05 |
| Phenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Pyrene | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Pyridine | | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |

**Notes:**
ND - Not detected
**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

TABLE 8
505 Union Avenue,
Brooklyn, New York
Groundwater Analytical Results
Pesticides/PCBs

| Compound | NYSDEC Groundwater Quality Standards µg/L | GW-1 µg/L | | GW-2 µg/L | | GW-3 µg/L | | GW-4 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| **PCB-1016** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1221** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1232** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1242** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1248** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1254** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1260** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1262** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1268** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **4,4-DDD** | **0.3** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **4,4-DDE** | **0.2** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **4,4-DDT** | **0.11** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **a-BHC** | **0.94** | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **Alachlor** | | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **Aldrin** | | ND | 0.003 | ND | 0.003 | ND | 0.003 | ND | 0.003 | ND | 0.003 |
| **b-BHC** | **0.04** | ND | 0.01 | ND | 0.01 | ND | 0.01 | ND | 0.01 | ND | 0.01 |
| **Chlordane** | **0.05** | ND | 0.3 | ND | 0.3 | ND | 0.3 | ND | 0.3 | ND | 0.3 |
| **d-BHC** | **0.04** | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **Dieldrin** | **0.004** | ND | 0.002 | ND | 0.002 | ND* | 0.007 | ND | 0.002 | ND | 0.002 |
| **Endosulfan I** | | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **Endosulfan II** | | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **Endosulfan Sulfate** | | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **Endrin** | | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **Endrin aldehyde** | **5** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **Endrin ketone** | | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **gamma-BHC** | **0.05** | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **Heptachlor** | **0.04** | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **Heptachlor epoxide** | **0.03** | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **Methoxychlor** | **35** | ND | 0.2 | ND | 0.2 | ND | 0.2 | ND | 0.2 | ND | 0.2 |
| **Toxaphene** | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |

**Notes:**
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**

Table 9
505 Union Avenue,
Brooklyn, New York
Groundwater Analytical Results
TAL Metals

| Compound | NYSDEC Groundwater Quality Standards | GW-1 | | GW-2 | | GW-3 | | GW-4 | | Duplicate | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/L | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | |
| | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| **Aluminum** | **0.1** | **0.633** | 0.01 | **0.022** | 0.01 | **2.33** | 0.01 | **2.51** | 0.01 | **4.22** | 0.01 |
| **Antimony** | **0.003** | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 |
| **Arsenic** | **0.025** | **0.007** | 0.004 | **0.011** | 0.004 | **0.005** | 0.004 | **0.005** | 0.004 | **0.006** | 0.004 |
| **Barium** | **1** | **0.404** | 0.002 | **0.132** | 0.002 | **0.457** | 0.002 | **0.124** | 0.002 | **0.483** | 0.002 |
| **Beryllium** | **0.003** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Cadmium** | **0.005** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Calcium** | **NS** | **127** | 0.01 | **136** | 0.01 | **136** | 0.1 | **67.5** | 0.01 | **147** | 0.1 |
| **Chromium** | **0.05** | **0.001** | 0.001 | BDL | 0.001 | **0.006** | 0.001 | **0.005** | 0.001 | **0.009** | 0.001 |
| **Cobalt** | **NS** | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 |
| **Copper** | **0.2** | **0.033** | 0.005 | BDL | 0.005 | **0.03** | 0.005 | **0.053** | 0.005 | **0.045** | 0.005 |
| **Iron** | **0.5** | **11.3** | 0.01 | **6.24** | 0.01 | **13** | 0.01 | **14** | 0.01 | **16.9** | 0.01 |
| **Lead** | **0.025** | **0.05** | 0.002 | **0.007** | 0.002 | **0.155** | 0.002 | **0.34** | 0.002 | **0.264** | 0.002 |
| **Magnesium** | **35** | **14.3** | 0.01 | **8.92** | 0.01 | **35.6** | 0.01 | **7.64** | 0.01 | **35.8** | 0.01 |
| **Manganese** | **0.3** | **0.565** | 0.001 | **0.285** | 0.001 | **0.797** | 0.001 | **0.499** | 0.001 | **0.87** | 0.001 |
| **Mercury** | **0.0007** | **0.0002** | 0.0002 | BDL | 0.0002 | BDL | 0.0002 | **0.0004** | 0.0002 | **0.0002** | 0.0002 |
| **Nickel** | **0.1** | **0.002** | 0.001 | BDL | 0.001 | **0.005** | 0.001 | **0.005** | 0.001 | **0.009** | 0.001 |
| **Potassium** | **NS** | **18.7** | 0.1 | **17.9** | 0.1 | **29.2** | 0.1 | **9.1** | 0.1 | **29.1** | 0.1 |
| **Selenium** | **0.01** | BDL | 0.01 | BDL | 0.01 | BDL | 0.01 | BDL | 0.01 | BDL | 0.01 |
| **Silver** | **0.05** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Sodium** | **2** | **23.6** | 0.1 | **11** | 0.1 | **43.3** | 0.1 | **9.8** | 0.1 | **42.5** | 0.1 |
| **Thallium** | **0.0005** | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 |
| **Vanadium** | **NS** | **0.002** | 0.002 | BDL | 0.002 | **0.007** | 0.002 | **0.008** | 0.002 | **0.012** | 0.002 |
| **Zinc** | **2** | **0.04** | 0.002 | **0.01** | 0.002 | **0.047** | 0.002 | **0.168** | 0.002 | **0.076** | 0.002 |

**Notes:**

BRL - Below Reporting Limit

NS - No Standard

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

Table 10
505 Union Avenue,
Brooklyn, New York
Groundwater Analytical Results
TAL Filtered Metals

| Compound | NYSDEC Groundwater Quality Standards | GW-1 | | GW-2 | | GW-3 | | GW-4 | | Duplicate | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/L | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | |
| | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| **Aluminum** | **0.1** | BDL | 0.01 | BDL | 0.01 | **0.22** | 0.05 | **0.08** | 0.01 | BDL | 0.01 |
| **Antimony** | **0.003** | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 |
| **Arsenic** | **0.025** | BDL | 0.004 | **0.005** | 0.004 | BDL | 0.004 | BDL | 0.004 | BDL | 0.004 |
| **Barium** | **1** | **0.297** | 0.002 | **0.121** | 0.002 | **0.273** | 0.002 | **0.065** | 0.002 | **0.284** | 0.002 |
| **Beryllium** | **0.003** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Cadmium** | **0.005** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Calcium** | **NS** | **115** | 0.01 | **126** | 0.01 | **134** | 0.01 | **58.9** | 0.01 | **137** | 0.01 |
| **Chromium** | **0.05** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Cobalt** | **NS** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Copper** | **0.2** | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 | BDL | 0.005 |
| **Iron** | **0.5** | **0.164** | 0.011 | **0.631** | 0.011 | **0.028** | 0.011 | **0.504** | 0.011 | **0.153** | 0.011 |
| **Lead** | **0.025** | **0.002** | 0.002 | BDL | 0.002 | **0.002** | 0.002 | **0.013** | 0.002 | BDL | 0.002 |
| **Magnesium** | **35** | **13.3** | 0.01 | **8.51** | 0.01 | **31.9** | 0.01 | **6.52** | 0.01 | **32.8** | 0.01 |
| **Manganese** | **0.3** | **0.533** | 0.001 | **0.28** | 0.001 | **0.705** | 0.001 | **0.397** | 0.001 | **0.72** | 0.001 |
| **Mercury** | **0.0007** | BDL | 0.0002 | BDL | 0.0002 | BDL | 0.0002 | BDL | 0.0002 | BDL | 0.0002 |
| **Nickel** | **0.1** | BDL | 0.001 | BDL | 0.001 | **0.002** | 0.001 | BDL | 0.001 | **0.002** | 0.001 |
| **Potassium** | **NS** | **18.6** | 0.1 | **18.4** | 0.1 | **29.2** | 0.1 | **9.2** | 0.1 | **29.7** | 0.1 |
| **Selenium** | **0.01** | BDL | 0.011 | BDL | 0.011 | BDL | 0.011 | BDL | 0.011 | BDL | 0.011 |
| **Silver** | **0.05** | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 | BDL | 0.001 |
| **Sodium** | **2** | **21.7** | 0.11 | **11.9** | 0.11 | **41.4** | 0.11 | **9.58** | 0.11 | **41.9** | 0.11 |
| **Thallium** | **0.0005** | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 |
| **Vanadium** | **NS** | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 | BDL | 0.002 |
| **Zinc** | **2** | **0.004** | 0.002 | BDL | 0.002 | BDL | 0.002 | **0.011** | 0.002 | BDL | 0.002 |

**Notes:**
BRL - Below Reporting Limit
NS - No Standard
**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

TABLE 11
505 Union Avenue,
Brooklyn, New York
Soil Gas - Volatile Organic Compounds

| COMPOUNDS | NYSDOH Maximum Sub-Slab Value (µg/m³) [a] | NYSDOH Soil Outdoor Background Levels (µg/m³) [b] | SS-1 (µg/m3) | | SS-2 (µg/m3) | | SS-3 (µg/m3) | | SS-4 (µg/m3) | | SS-5 (µg/m3) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,1,1,2-Tetrachloroethane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,1-Trichloroethane | 100 | <2.0 - 2.8 | ND | 0.998 | ND | 0.998 | **3.05** | 0.998 | ND | 0.998 | **3.71** | 0.998 |
| 1,1,2,2-Tetrachloroethane | | <1.5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,2-Trichloroethane | | <1.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 1,1-Dichloroethane | | <1.0 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,1-Dichloroethene | | <1.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 1,2,4-Trichlorobenzene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trimethylbenzene | | <1.0 | **4.03** | 1 | **4.96** | 1 | **5.11** | 1 | **5.21** | 1 | **5.06** | 1 |
| 1,2-Dibromoethane | | <1.5 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 1,2-Dichlorobenzene | | <2.0 | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,2-Dichloroethane | | <1.0 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,2-Dichloropropane | | | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,2-Dichlorotetrafluoroethane | | | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,3,5-Trimethylbenzene | | <1.0 | **1.33** | 1 | **1.52** | 1 | **1.67** | 1 | **1.72** | 1 | **1.62** | 1 |
| 1,3-Butadiene | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,3-Dichlorobenzene | | <2.0 | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,4-Dichlorobenzene | | NA | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,4-Dioxane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 2-Hexanone | | | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 4-Ethyltoluene | | NA | **1.13** | 1 | **1.18** | 1 | **1.33** | 1 | **1.57** | 1 | **1.42** | 1 |
| 4-Isopropyltoluene | | | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 4-Methyl-2-pentanone | | | ND | 0.999 | ND | 0.999 | **2.5** | 0.999 | **2.99** | 0.999 | **2.74** | 0.999 |
| Acetone | | NA | ND | 0.999 | **29** | 0.999 | **44** | 0.999 | **41** | 0.999 | **21** | 0.999 |
| Acrylonitrile | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Benzene | | <1.6 - 4.7 | ND | 0.999 | ND | 0.999 | **1.34** | 0.999 | **1.6** | 0.999 | **1.56** | 0.999 |
| Benzyl Chloride | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| Bromodichloromethane | | <5.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Bromoform | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromomethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Carbon Disulfide | | NA | ND | 0.999 | **1.28** | 0.999 | **2.58** | 0.999 | ND | 0.999 | ND | 0.999 |
| Carbon Tetrachloride | 5 | <3.1 | ND | 0.251 | **0.629** | 0.251 | ND | 0.251 | **0.251** | 0.251 | **0.251** | 0.251 |
| Chlorobenzene | | <2.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Chloroethane | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloroform | | <2.4 | ND | 1 | **20.2** | 1 | **9.56** | 1 | **3.56** | 1 | **2.88** | 1 |
| Chloromethane | | <1.0 - 1.4 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| cis-1,2-Dichloroethene | | <1.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| cis-1,3-Dichloropropene | | NA | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Cyclohexane | | NA | **2** | 1 | **1.51** | 1 | **1.68** | 1 | **1.27** | 1 | ND | 1 |
| Dibromochloromethane | | <5.0 | ND | 0.996 | ND | 0.996 | ND | 0.996 | ND | 0.996 | ND | 0.996 |
| Dichlorodifluromethane | | NA | **1.78** | 0.998 | **2.42** | 0.998 | **2.62** | 0.998 | **2.57** | 0.998 | **2.42** | 0.998 |
| Ethanol | | | ND | 1 | **69** | 1 | ND | 1 | **48.6** | 1 | **55.2** | 1 |
| Ethyl Acetate | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Ethylbenzene | | <4.3 | **2.91** | 0.998 | **3.38** | 0.998 | **3.9** | 0.998 | **3.86** | 0.998 | **3.69** | 0.998 |
| Heptane | | NA | ND | 0.999 | ND | 0.999 | **1.1** | 0.999 | **1.23** | 0.999 | **1.1** | 0.999 |
| Hexachlorobutadiene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Hexane | | <1.5 | ND | 1 | **1.2** | 1 | **2.64** | 1 | **3.06** | 1 | **3.35** | 1 |
| Isopropylalcohol | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Isopropylbenzene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Xylene (m&p) | | <4.3 | **7.16** | 0.998 | **8.9** | 0.998 | **10.4** | 0.998 | **11.1** | 0.998 | **9.81** | 0.998 |
| Methyl Ethyl Ketone | | | ND | 0.999 | **2.18** | 0.999 | **3.45** | 0.999 | **4.57** | 0.999 | **1.68** | 0.999 |
| MTBE | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Methylene Chloride | | <3.4 | **1.32** | 1 | **4.27** | 1 | **6.25** | 1 | **9.2** | 1 | **6.91** | 1 |
| n-Butylbenzene | | | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Xylene (o) | | <4.3 | **2.86** | 0.998 | **3.47** | 0.998 | **3.95** | 0.998 | **4.6** | 0.998 | **3.9** | 0.998 |
| Propylene | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| sec-Butylbenzene | | | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Styrene | | <1.0 | ND | 1 | **1.02** | 1 | **1.06** | 1 | ND | 1 | ND | 1 |
| Tetrachloroethene | 100 | | **1** | 0.251 | **146** | 0.251 | **3** | 0.251 | **3** | 0.251 | **22** | 0.251 |
| Tetrahydrofuran | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| Toluene | | 1.0 - 6.1 | **11** | 1 | **13** | 1 | **15.7** | 1 | **15.3** | 1 | **13.4** | 1 |
| trans-1,2-Dichloroethene | | NA | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| trans-1,3-Dichloropropene | | NA | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Trichloroethene | 5 | <1.7 | ND | 0.252 | **6.93** | 0.252 | ND | 0.252 | ND | 0.252 | **0.752** | 0.252 |
| Trichlorofluoromethane | | NA | **1.85** | 0.999 | **1.74** | 0.999 | **2.02** | 0.999 | **1.52** | 0.999 | **1.52** | 0.999 |
| Trichlorotrifluoroethane | | | ND | 0.996 | ND | 0.996 | **1.07** | 0.996 | ND | 0.996 | ND | 0.996 |
| Vinyl Chloride | | <1.0 | ND | 0.25 | ND | 0.25 | ND | 0.25 | ND | 0.25 | ND | 0.25 |

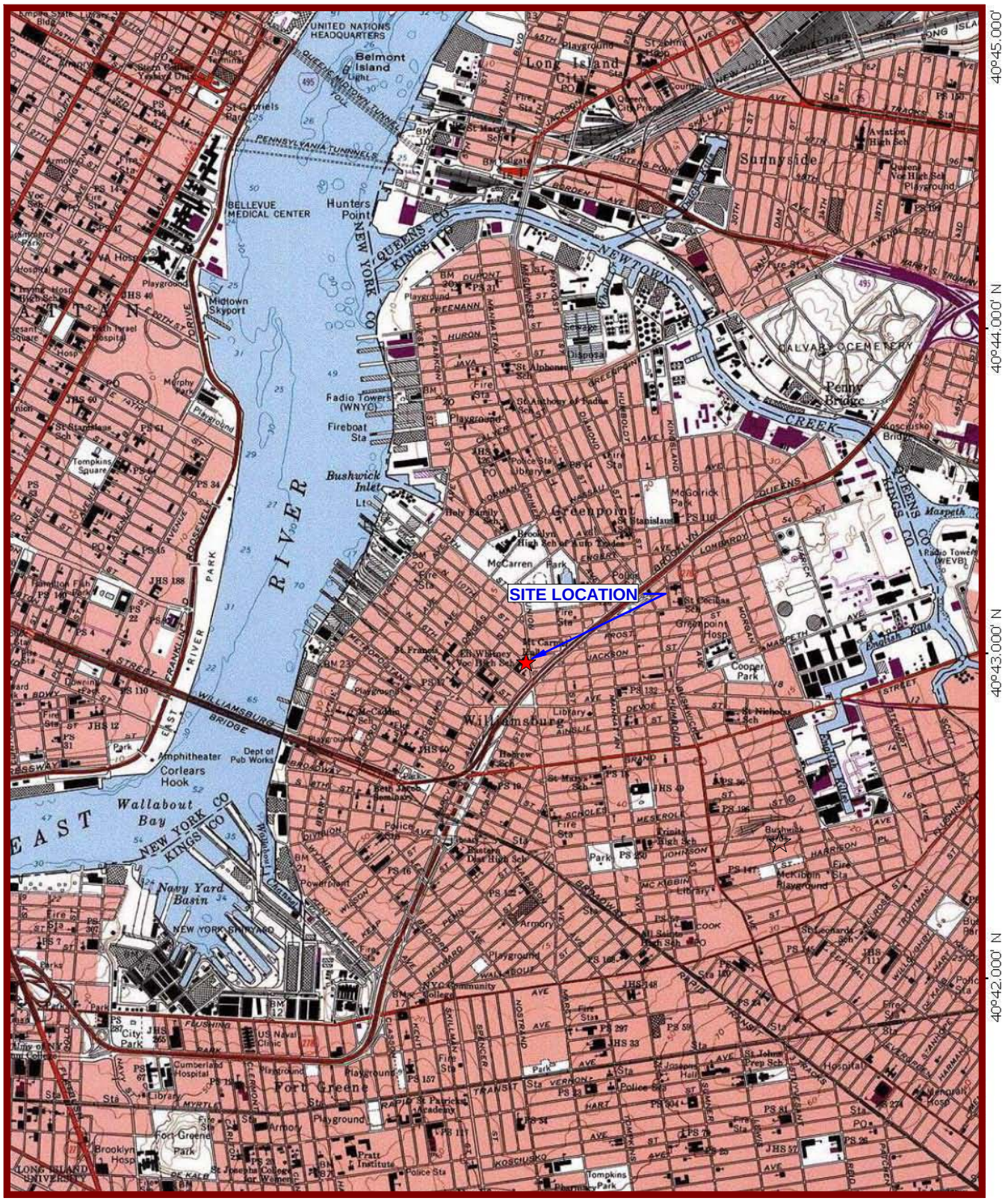
Notes:
NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006. New York State Department of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH Database, Outdoor values)
Value detected above NYSDOH Air Guidance Value of 5 µg/m3, which according to Soil Vapor/Indoor Air Matrix 1 would require at a minimum, mitigation.
Value detected above NYSDOH Air Guidance Value of 100 µg/m3, which according to Soil Vapor/Indoor Air Matrix 2 would require at a minimum, mitigation.

TABLE 11
505 Union Avenue,
Brooklyn, New York
Soil Gas - Volatile Organic Compounds

| COMPOUNDS | NYSDOH Maximum Sub-Slab Value (µg/m³) [a] | NYSDOH Soil Outdoor Background Levels (µg/m³) [b] | AA-1 (µg/m3) | | AA-2 (µg/m3) | | AA-3 (µg/m3) | |
|---|---|---|---|---|---|---|---|---|
| | | | Result | RL | Result | RL | Result | RL |
| 1,1,1,2-Tetrachloroethane | | | ND | 1 | ND | 1 | ND | 1 |
| 1,1,1-Trichloroethane | 100 | <2.0 - 2.8 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 1,1,2,2-Tetrachloroethane | | <1.5 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,2-Trichloroethane | | <1.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 1,1-Dichloroethane | | <1.0 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,1-Dichloroethene | | <1.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 1,2,4-Trichlorobenzene | | NA | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trimethylbenzene | | <1.0 | **6.24** | 1 | **10.7** | 1 | **5.21** | 1 |
| 1,2-Dibromoethane | | <1.5 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 1,2-Dichlorobenzene | | <2.0 | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,2-Dichloroethane | | <1.0 | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,2-Dichloropropane | | | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,2-Dichlorotetrafluoroethane | | | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,3,5-Trimethylbenzene | | <1.0 | **2.01** | 1 | **3.05** | 1 | **1.57** | 1 |
| 1,3-Butadiene | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 1,3-Dichlorobenzene | | <2.0 | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,4-Dichlorobenzene | | NA | ND | 0.997 | ND | 0.997 | ND | 0.997 |
| 1,4-Dioxane | | | ND | 1 | ND | 1 | ND | 1 |
| 2-Hexanone | | | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| 4-Ethyltoluene | | NA | **1.72** | 1 | **2.6** | 1 | **1.38** | 1 |
| 4-Isopropyltoluene | | | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| 4-Methyl-2-pentanone | | | ND | 0.999 | **3.03** | 0.999 | **4.26** | 0.999 |
| Acetone | | NA | **20** | 0.999 | **28** | 0.999 | **639** | 0.999 |
| Acrylonitrile | | | ND | 1 | ND | 1 | ND | 1 |
| Benzene | | <1.6 - 4.7 | **1.95** | 0.999 | **1.79** | 0.999 | **1.02** | 0.999 |
| Benzyl Chloride | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| Bromodichloromethane | | <5.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Bromoform | | <1.0 | ND | 1 | ND | 1 | ND | 1 |
| Bromomethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 |
| Carbon Disulfide | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| Carbon Tetrachloride | 5 | <3.1 | **0.503** | 0.251 | **0.566** | 0.251 | **0.503** | 0.251 |
| Chlorobenzene | | <2.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Chloroethane | | NA | ND | 1 | ND | 1 | ND | 1 |
| Chloroform | | <2.4 | **3.76** | 1 | ND | 1 | ND | 1 |
| Chloromethane | | <1.0 - 1.4 | **1.38** | 0.999 | **1.38** | 0.999 | **1.4** | 0.999 |
| cis-1,2-Dichloroethene | | <1.0 | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| cis-1,3-Dichloropropene | | NA | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Cyclohexane | | NA | ND | 1 | **1.51** | 1 | **2.27** | 1 |
| Dibromochloromethane | | <5.0 | ND | 0.996 | ND | 0.996 | ND | 0.996 |
| Dichlorodifluromethane | | NA | **2.52** | 0.998 | **2.52** | 0.998 | **2.52** | 0.998 |
| Ethanol | | | **23.7** | 1 | **27.7** | 1 | **114** | 1 |
| Ethyl Acetate | | NA | ND | 1 | ND | 1 | ND | 1 |
| Ethylbenzene | | <4.3 | **2.43** | 0.998 | **3.52** | 0.998 | **4.12** | 0.998 |
| Heptane | | NA | **1.72** | 0.999 | **2.01** | 0.999 | **1.8** | 0.999 |
| Hexachlorobutadiene | | NA | ND | 1 | ND | 1 | ND | 1 |
| Hexane | | <1.5 | **5.95** | 1 | **3.84** | 1 | ND | 1 |
| Isopropylalcohol | | NA | **3.96** | 1 | **9.88** | 1 | **6.51** | 1 |
| Isopropylbenzene | | | ND | 1 | ND | 1 | ND | 1 |
| Xylene (m&p) | | <4.3 | **7.59** | 0.998 | **12.6** | 0.998 | **10.2** | 0.998 |
| Methyl Ethyl Ketone | | | ND | 0.999 | **2.15** | 0.999 | **5.81** | 0.999 |
| MTBE | | NA | ND | 1 | ND | 1 | ND | 1 |
| Methylene Chloride | | <3.4 | **10.1** | 1 | **1.53** | 1 | **1.39** | 1 |
| n-Butylbenzene | | | **1.15** | 0.998 | **1.76** | 0.998 | ND | 0.998 |
| Xylene (o) | | <4.3 | **3.17** | 0.998 | **5.55** | 0.998 | **3.9** | 0.998 |
| Propylene | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| sec-Butylbenzene | | | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Styrene | | <1.0 | ND | 1 | ND | 1 | **1.11** | 1 |
| Tetrachloroethene | 100 | | **0.474** | 0.251 | **1** | 0.251 | **1** | 0.251 |
| Tetrahydrofuran | | NA | ND | 0.999 | ND | 0.999 | ND | 0.999 |
| Toluene | | 1.0 - 6.1 | **10.6** | 1 | **14.1** | 1 | **23.8** | 1 |
| trans-1,2-Dichloroethene | | NA | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| trans-1,3-Dichloropropene | | NA | ND | 0.998 | ND | 0.998 | ND | 0.998 |
| Trichloroethene | 5 | <1.7 | ND | 0.252 | ND | 0.252 | **8.75** | 0.252 |
| Trichlorofluoromethane | | NA | **1.12** | 0.999 | **1.35** | 0.999 | **1.96** | 0.999 |
| Trichlorotrifluoroethane | | | ND | 0.996 | ND | 0.996 | ND | 0.996 |
| Vinyl Chloride | | <1.0 | ND | 0.25 | ND | 0.25 | ND | 0.25 |

Notes:
NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 200
of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Februar
Background Levels for Selected Compounds (NYSDOH Database, Outdoor values)
Value detected above NYSDOH Air Guidance Value of 5 µg/m3, which according to Soil Vap
require at a minimum, mitigation.
Value detected above NYSDOH Air Guidance Value of 100 µg/m3, which according to Soil V
require at a minimum, mitigation.

# ***FIGURES***




USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

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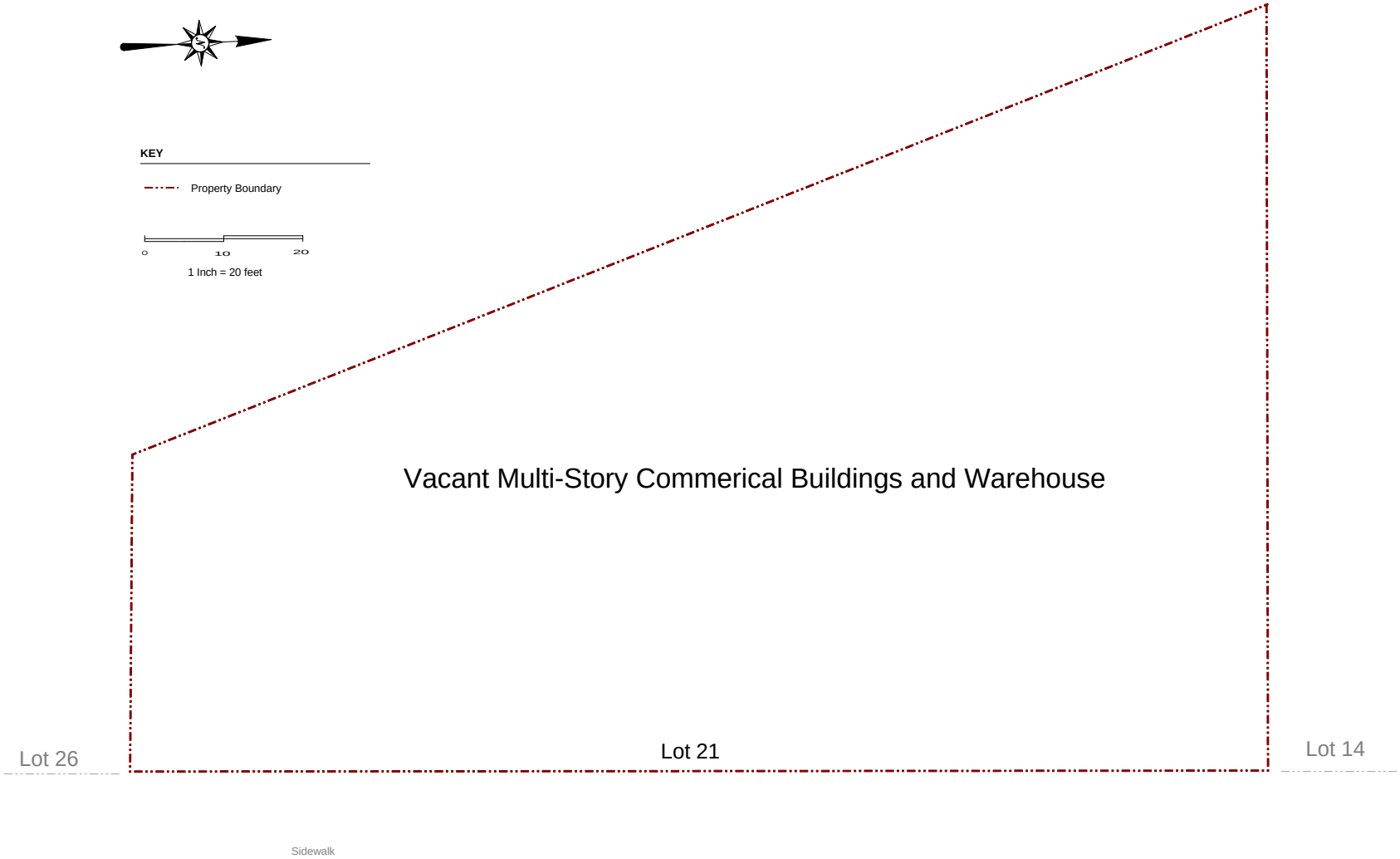
505 Union Avenue
Brooklyn, NY

**FIGURE 1** Site Location Map

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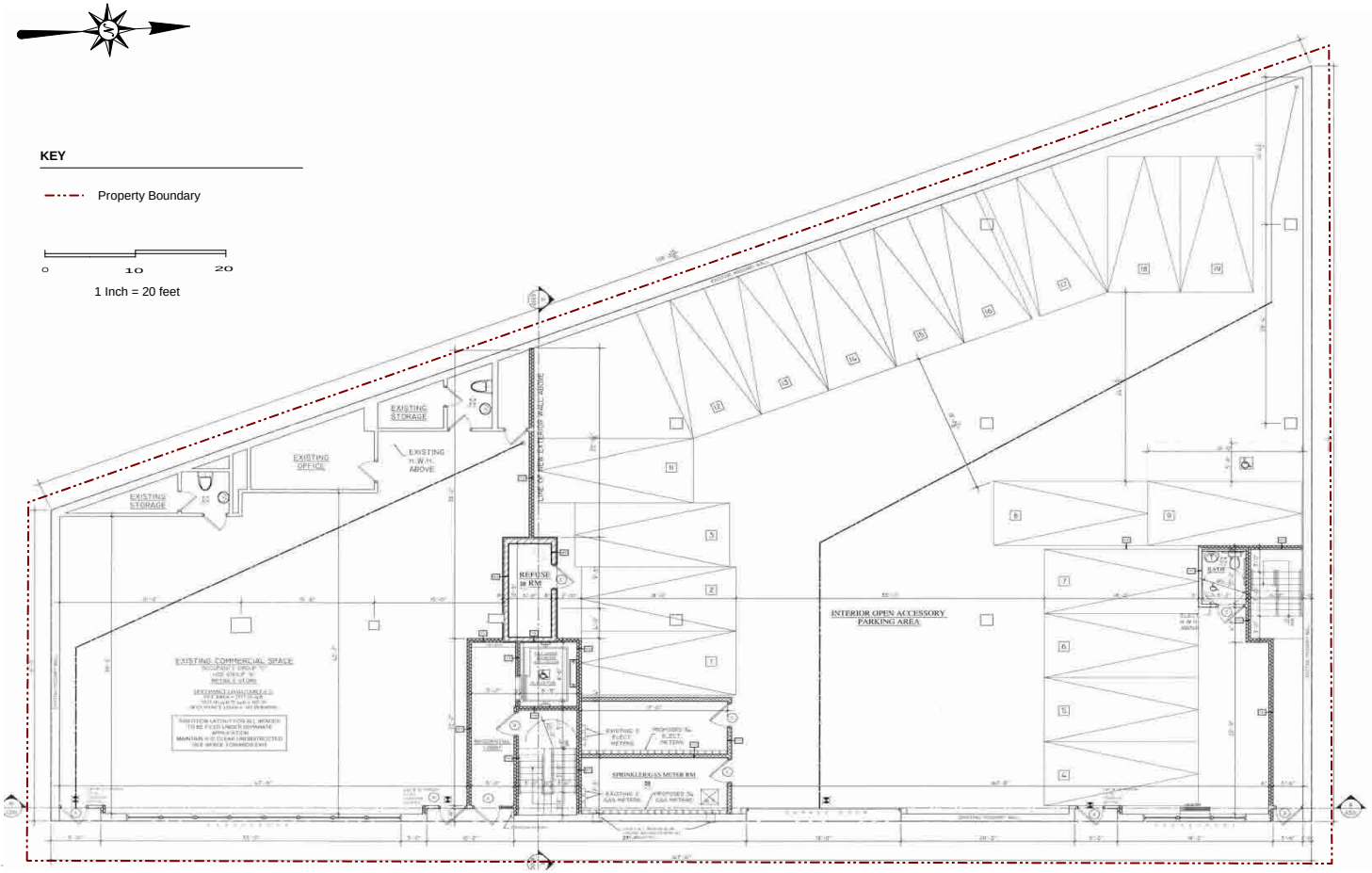
505 Union Avenue, Brooklyn, NY
Block 2315 Lot 21

**FIGURE 2 - Site Plan**




## UNION AVENUE

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**FIGURE 3 - Redevelopment Plan**

Source: http://www.oasisnyc.net/map.aspx

# FIGURE 4
## SURROUNDING LAND USE MAP

505 UNION AVENUE, BROOKLYN, NY

REMEDIAL INVESTIGATION REPORT

EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870

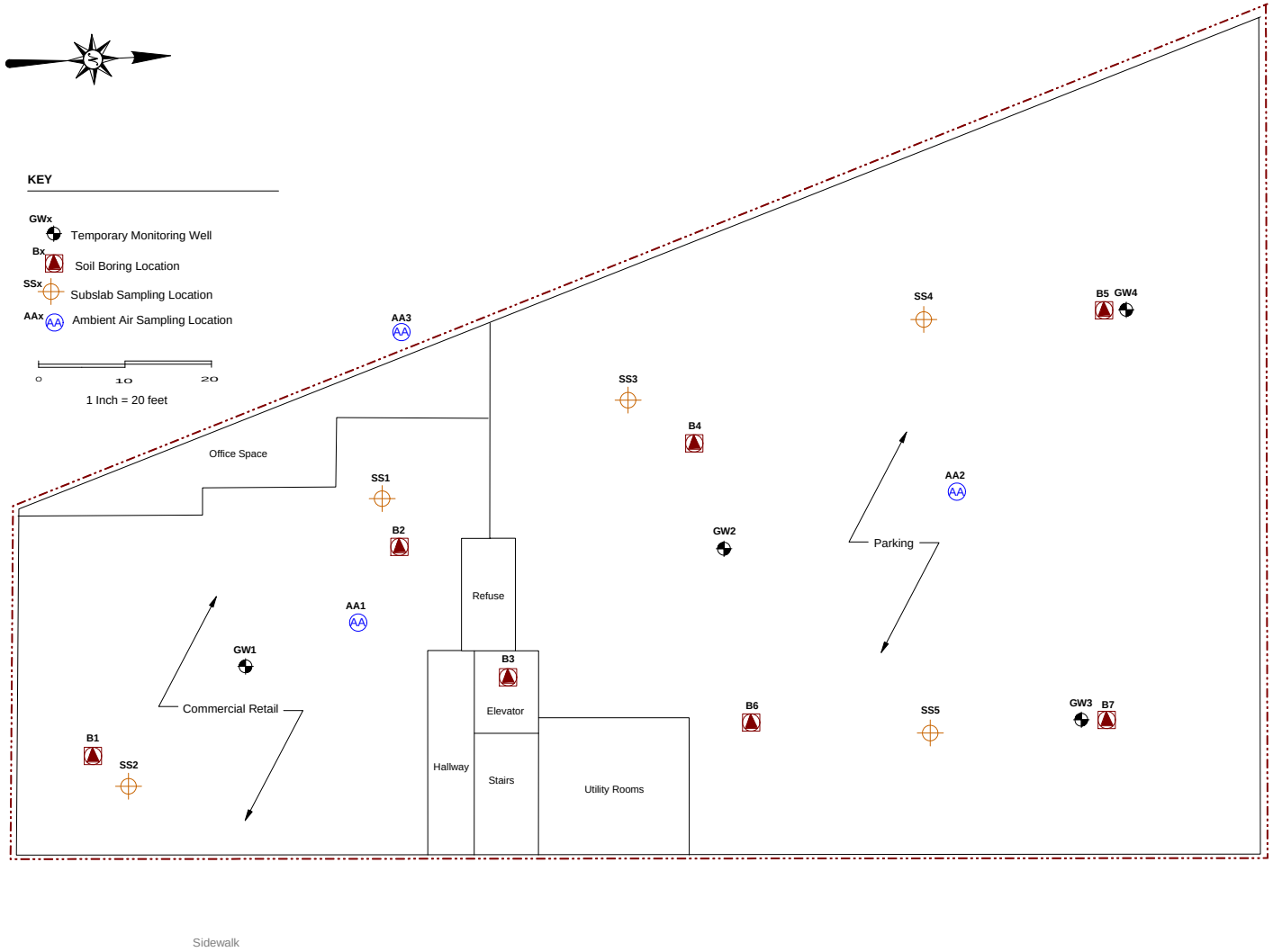


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FIGURE 5 - SITE PLAN

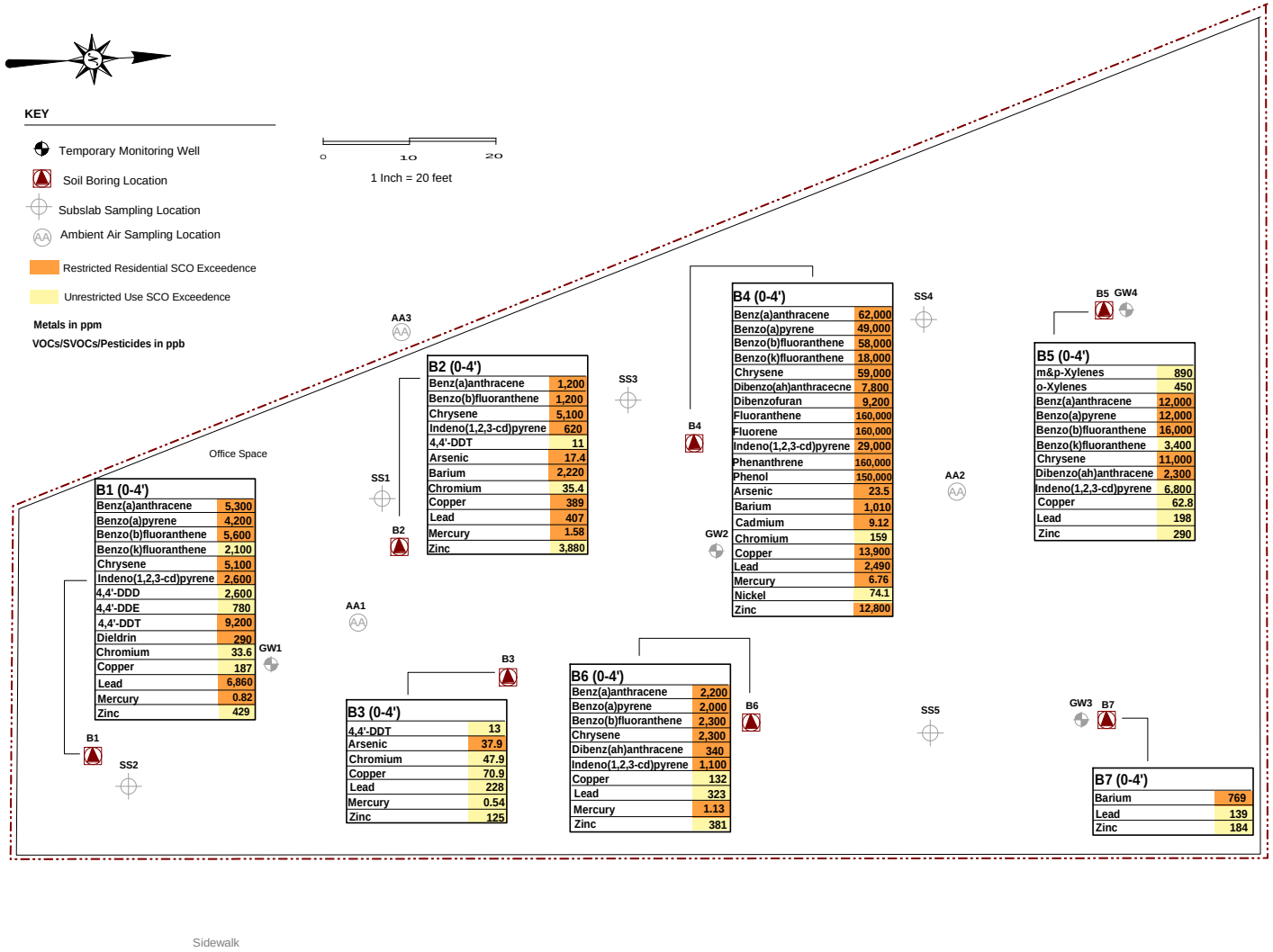


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**FIGURE 6 - SOIL EXCEEDENCES**

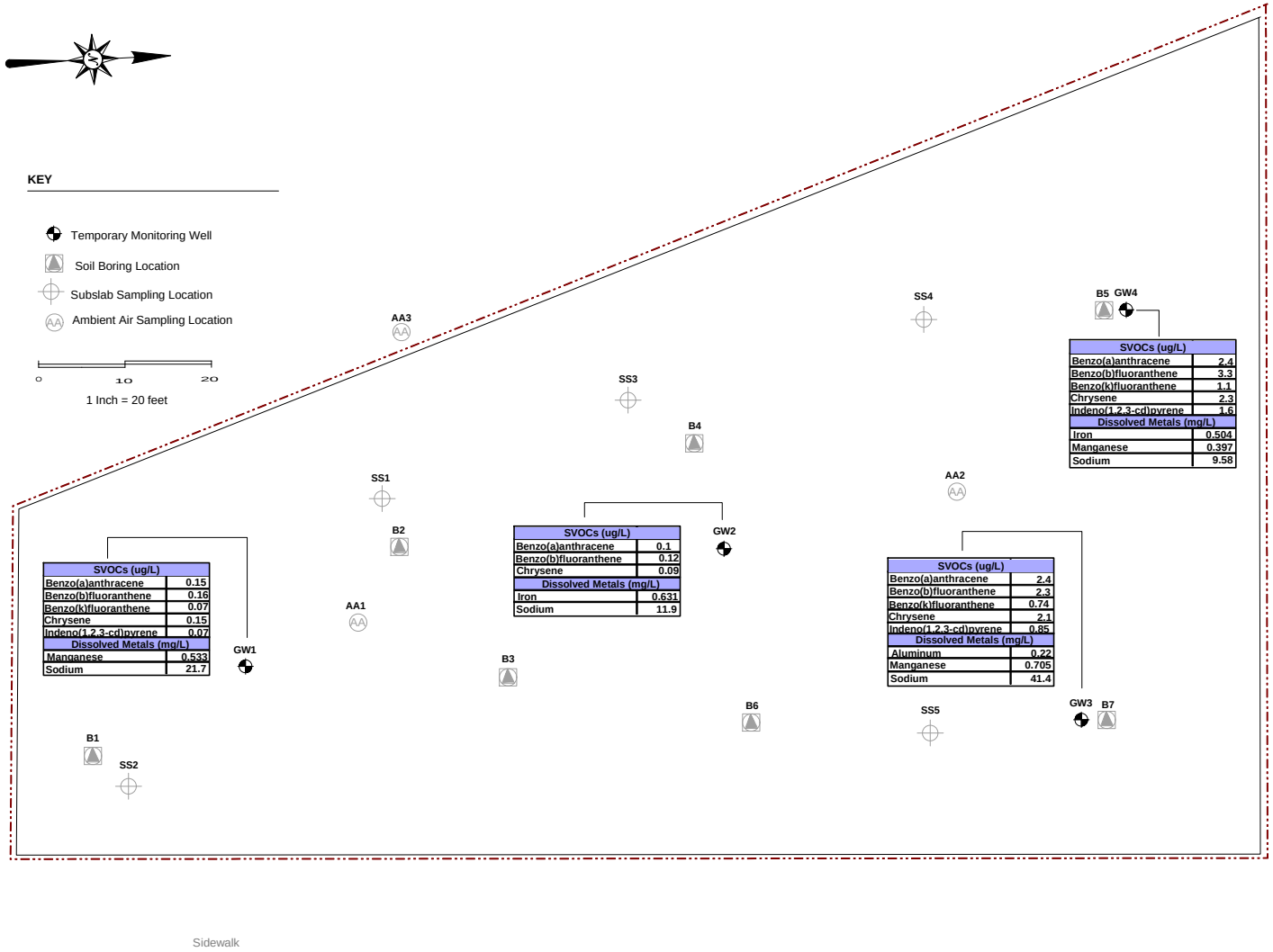


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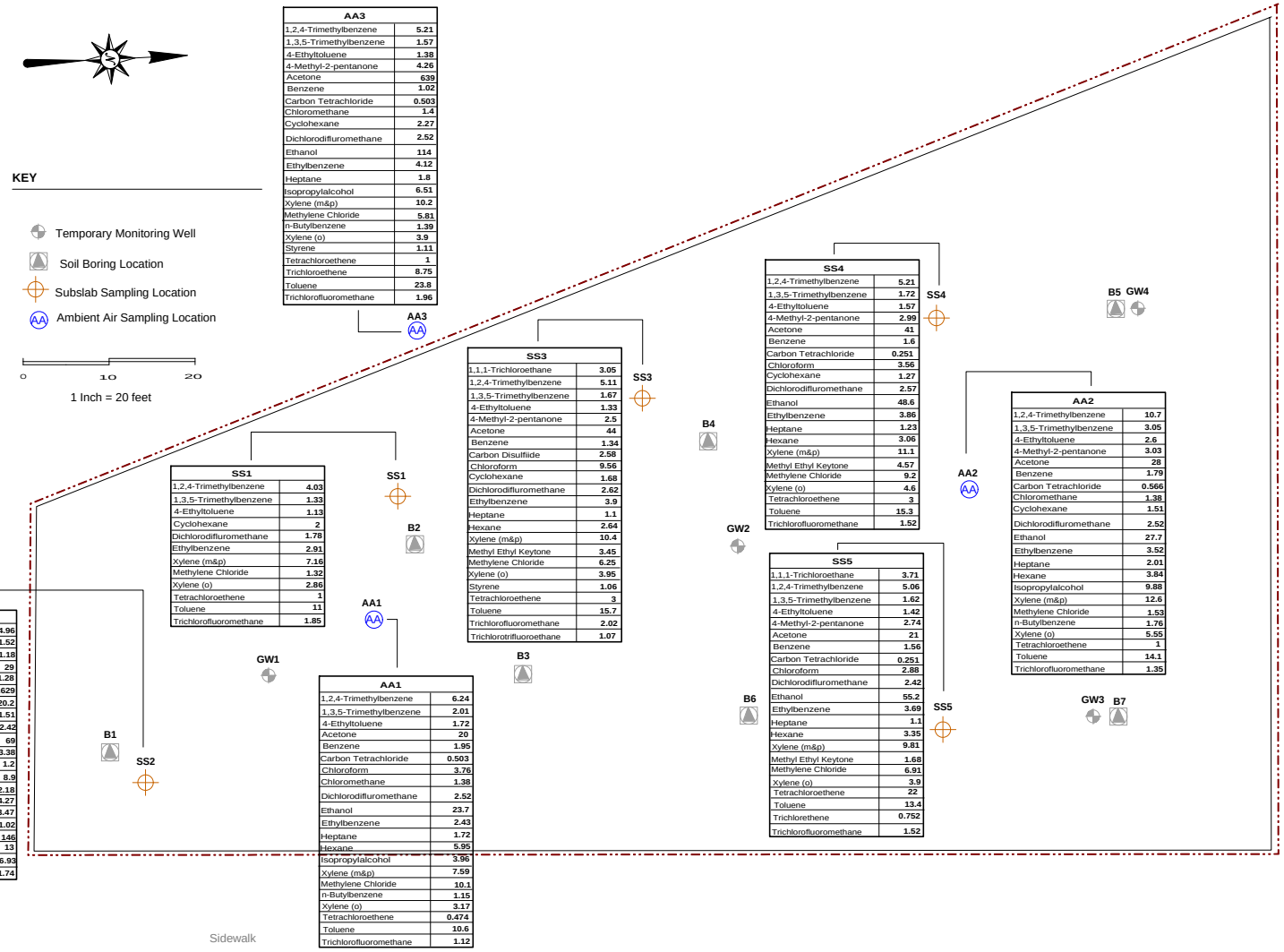
**FIGURE 7 - GROUNDWATER EXCEEDENCES**




| AA3 | |
|---|---|
| 1,2,4-Trimethylbenzene | 5.21 |
| 1,3,5-Trimethylbenzene | 1.57 |
| 4-Ethyltoluene | 1.38 |
| 4-Methyl-2-pentanone | 4.26 |
| Acetone | 639 |
| Benzene | 1.02 |
| Carbon Tetrachloride | 0.503 |
| Chloromethane | 1.4 |
| Cyclohexane | 2.27 |
| Dichlorodifluromethane | 2.52 |
| Ethanol | 114 |
| Ethylbenzene | 4.12 |
| Heptane | 1.8 |
| Isopropylalcohol | 6.51 |
| Xylene (m&p) | 10.2 |
| Methylene Chloride | 5.81 |
| n-Butylbenzene | 1.39 |
| Xylene (o) | 3.9 |
| Styrene | 1.11 |
| Tetrachloroethene | 1 |
| Trichloroethene | 8.75 |
| Toluene | 23.8 |
| Trichlorofluoromethane | 1.96 |

| SS3 | |
|---|---|
| 1,1,1-Trichloroethane | 3.05 |
| 1,2,4-Trimethylbenzene | 5.11 |
| 1,3,5-Trimethylbenzene | 1.67 |
| 4-Ethyltoluene | 1.33 |
| 4-Methyl-2-pentanone | 2.5 |
| Acetone | 44 |
| Benzene | 1.34 |
| Carbon Disulfide | 2.58 |
| Chloroform | 9.56 |
| Cyclohexane | 1.68 |
| Dichlorodifluromethane | 2.62 |
| Ethylbenzene | 3.9 |
| Heptane | 1.1 |
| Hexane | 2.64 |
| Xylene (m&p) | 10.4 |
| Methyl Ethyl Keytone | 3.45 |
| Methylene Chloride | 6.25 |
| Xylene (o) | 3.95 |
| Styrene | 1.06 |
| Tetrachloroethene | 3 |
| Toluene | 15.7 |
| Trichlorofluoromethane | 2.02 |
| Trichlorotrifluoroethane | 1.07 |

| SS4 | |
|---|---|
| 1,2,4-Trimethylbenzene | 5.21 |
| 1,3,5-Trimethylbenzene | 1.72 |
| 4-Ethyltoluene | 1.57 |
| 4-Methyl-2-pentanone | 2.99 |
| Acetone | 41 |
| Benzene | 1.6 |
| Carbon Tetrachloride | 0.251 |
| Chloroform | 3.56 |
| Cyclohexane | 1.27 |
| Dichlorodifluromethane | 2.57 |
| Ethanol | 48.6 |
| Ethylbenzene | 3.86 |
| Heptane | 1.23 |
| Hexane | 3.06 |
| Xylene (m&p) | 11.1 |
| Methyl Ethyl Keytone | 4.57 |
| Methylene Chloride | 9.2 |
| Xylene (o) | 4.6 |
| Tetrachloroethene | 3 |
| Toluene | 15.3 |
| Trichlorofluoromethane | 1.52 |

| AA2 | |
|---|---|
| 1,2,4-Trimethylbenzene | 10.7 |
| 1,3,5-Trimethylbenzene | 3.05 |
| 4-Ethyltoluene | 2.6 |
| 4-Methyl-2-pentanone | 3.03 |
| Acetone | 28 |
| Benzene | 1.79 |
| Carbon Tetrachloride | 0.566 |
| Chloromethane | 1.38 |
| Cyclohexane | 1.51 |
| Dichlorodifluromethane | 2.52 |
| Ethanol | 27.7 |
| Ethylbenzene | 3.52 |
| Heptane | 2.01 |
| Hexane | 3.84 |
| Isopropylalcohol | 9.88 |
| Xylene (m&p) | 12.6 |
| Methylene Chloride | 1.53 |
| n-Butylbenzene | 1.76 |
| Xylene (o) | 5.55 |
| Tetrachloroethene | 1 |
| Toluene | 14.1 |
| Trichlorofluoromethane | 1.35 |

| SS1 | |
|---|---|
| 1,2,4-Trimethylbenzene | 4.03 |
| 1,3,5-Trimethylbenzene | 1.33 |
| 4-Ethyltoluene | 1.13 |
| Cyclohexane | 2 |
| Dichlorodifluromethane | 1.78 |
| Ethylbenzene | 2.91 |
| Xylene (m&p) | 7.16 |
| Methylene Chloride | 1.32 |
| Xylene (o) | 2.86 |
| Tetrachloroethene | 1 |
| Toluene | 11 |
| Trichlorofluoromethane | 1.85 |

| SS5 | |
|---|---|
| 1,1,1-Trichloroethane | 3.71 |
| 1,2,4-Trimethylbenzene | 5.06 |
| 1,3,5-Trimethylbenzene | 1.62 |
| 4-Ethyltoluene | 1.42 |
| 4-Methyl-2-pentanone | 2.74 |
| Acetone | 21 |
| Benzene | 1.56 |
| Carbon Tetrachloride | 0.251 |
| Chloroform | 2.88 |
| Dichlorodifluromethane | 2.42 |
| Ethanol | 55.2 |
| Ethylbenzene | 3.69 |
| Heptane | 1.1 |
| Hexane | 3.35 |
| Xylene (m&p) | 9.81 |
| Methyl Ethyl Keytone | 1.68 |
| Methylene Chloride | 6.91 |
| Xylene (o) | 3.9 |
| Tetrachloroethene | 22 |
| Toluene | 13.4 |
| Trichlorethene | 0.752 |
| Trichlorofluoromethane | 1.52 |

| SS2 | |
|---|---|
| 1,2,4-Trimethylbenzene | 4.96 |
| 1,3,5-Trimethylbenzene | 1.52 |
| 4-Ethyltoluene | 1.18 |
| Acetone | 29 |
| Carbon Disulfide | 1.28 |
| Carbon Tetrachloride | 0.629 |
| Chloroform | 20.2 |
| Cyclohexane | 1.51 |
| Dichlorodifluromethane | 2.42 |
| Ethanol | 69 |
| Ethylbenzene | 3.38 |
| Hexane | 1.2 |
| Xylene (m&p) | 8.9 |
| Methyl Ethyl Keytone | 2.18 |
| Methylene Chloride | 4.27 |
| Xylene (o) | 3.47 |
| Styrene | 1.02 |
| Tetrachloroethene | 146 |
| Toluene | 13 |
| Trichloroethene | 6.93 |
| Trichlorofluoromethane | 1.74 |

| AA1 | |
|---|---|
| 1,2,4-Trimethylbenzene | 6.24 |
| 1,3,5-Trimethylbenzene | 2.01 |
| 4-Ethyltoluene | 1.72 |
| Acetone | 20 |
| Benzene | 1.95 |
| Carbon Tetrachloride | 0.503 |
| Chloroform | 3.76 |
| Chloromethane | 1.38 |
| Dichlorodifluromethane | 2.52 |
| Ethanol | 23.7 |
| Ethylbenzene | 2.43 |
| Heptane | 1.72 |
| Hexane | 5.95 |
| Isopropylalcohol | 3.96 |
| Xylene (m&p) | 7.59 |
| Methylene Chloride | 10.1 |
| n-Butylbenzene | 1.15 |
| Xylene (o) | 3.17 |
| Tetrachloroethene | 0.474 |
| Toluene | 10.6 |
| Trichlorofluoromethane | 1.12 |

UNION AVENUE

EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631.924.2870

505 Union Avenue, Brooklyn, NY
Block 2315 Lot 21

FIGURE 8 - Soil Vapor Detections

# ***ATTACHMENT A***
# ***PHASE I REPORT***

# PHASE I
# ENVIRONMENTAL SITE ASSESSMENT REPORT

## March 30, 2012

503-515 Union Avenue, Brooklyn, NY 11211

EBC Project No: JCR 1103

Block 2315, Lot 21

**Prepared for:**

Jacobs Realty
144 Spencer
Brooklyn, NY 11205


EBC
*Environmental Business Consultants*
1808 Middle Country Road. Ridge, New York 11961
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# EXECUTIVE SUMMARY

Environmental Business Consultants (EBC) prepared this Phase I Environmental Site Assessment (ESA) for the following property on behalf of Jacobs Realty: 503 to 515 Union Avenue, Brooklyn, NY, 11211. The purpose of the Phase I ESA was to identify and evaluate the presence of recognized environmental conditions at the Site. Recognized environmental conditions are the presence or likely presence of any hazardous substance or petroleum product under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum product into structures on the property or into the ground, groundwater or surface water of the property.

The work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-05 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process), 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule), and EBC's proposal for services.

The street address of the Site is 505 Union Avenue, Brooklyn, New York 11211, but the property spans from 503 to 515 Union Avenue. The Site is identified as Block 2315, Lot 21 on the Borough of Brooklyn Tax Map. The lot is located in the City of New York and Borough of Brooklyn (Kings County). The lot is located on the west side of Union Avenue, between Jackson Street and Skillman Avenue. Lot 21 is a trapezoidal shaped lot with 147 feet of frontage on Union Avenue, 158 feet in the rear of the lot, 100 feet deep on the north side, and tapers to 41 feet deep on the south side for total property area of 9,375 $ft^2$.

The entire footprint of the lot is developed with a 2-story commercial building. The building includes a retails sales showroom and offices and a 7,000 $ft^2$ warehouse area. The building is currently vacant but was most recently used by S&J Supply, a building materials supply retailer.

Historical information (DOB records and Sanborn Maps) reviewed for the Site identified the Site as being undeveloped prior to 1887. The Site was used from at least 1887 to sometime before 1904 as a junk yard and rag/paper warehouse. By 1942 the warehouse was demolished and the property was used as a small storefront. The existing building was constructed in 1946 and used by a lumber supply company. The property was used as a building materials warehouse from at least 1965 to 2011 when the building was vacated.

## RECOGNIZED ENVIROMENTAL CONDITIONS

Based upon reconnaissance of the subject and surrounding properties, interviews and review of historical records and regulatory agency databases, ***the following recognized environmental conditions were noted for the Site***.

- The former use of the Site as a junk yard from at least 1905 to at most 1941.

EBC recommends performing a Phase II Subsurface Investigation at the Site to include the collection and laboratory analysis of subsurface soil, groundwater, and sub-slab soil gas samples.

It should be noted that nearly any development scenario for the site is subject to the E-designation Environmental Review Program administered by the New York City Mayor's Office of Environmental Remediation (MOER) due to the hazardous materials "E" designation assigned to the site. Typical MOER Phase II investigation/sampling requirements for hazmat "E" sites are provided.

- Collection and laboratory analysis of for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), target analyte list (TAL) metals, PCBs and pesticides.
- Collection and laboratory analysis of groundwater samples for VOCs, SVOCs, TAL metals (filtered and unfiltered), PCBs and pesticides.
- Collection and laboratory analysis of soil gas samples for laboratory analysis of VOCs via EPA Method TO-15.

# 1.0 INTRODUCTION

## 1.1 Purpose

Environmental Business Consultants (EBC) prepared this Phase I Environmental Site Assessment (ESA) for the following property on behalf of Jacobs Realty: 503 to 515 Union Avenue, Brooklyn, NY, 11211 (**Figure 1**). The purpose of the Phase I ESA was to identify and evaluate the presence of recognized environmental conditions at the Site. Recognized environmental conditions are the presence or likely presence of any hazardous substance or petroleum product under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum product into structures on the property or into the ground, groundwater or surface water of the property.

## 1.2 Scope of Services

The assessment consisted of a visual inspection of the site and surrounding areas, interviews, a review of historical information and maps, and a review of pertinent local, state, federal and facility records. Environmental Data Resources (EDR) of Southport, Connecticut, provided the following information: a computerized database search of environmental compliance records of sites within an ASTM standard radius of the property, a Sanborn fire insurance map search, and a historical telephone directory search.

EBC reviewed the environmental database report compiled by EDR as a part of the assessment. The purpose of the review was to identify reported listings for the Site or other properties in the site vicinity. Databases reviewed included federal and state lists of known or suspected contaminated sites, lists of known handlers or generators of hazardous waste, lists of known waste disposal facilities, and lists of aboveground and underground storage tanks (ASTs and USTs). EBC's review of the database has been incorporated into this report along with a copy of the EDR report.

The work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-05 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process), 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule), and EBC's proposal for services.

## 1.3 Significant Assumptions

EBC has made the following assumptions in the preparation of this report:

1. Groundwater – The depth to groundwater at the Site is approximately 8 feet below grade. Based on regional groundwater contour maps, groundwater flow is expected to be west towards the east river.
2. Regulatory Records Information – EBC assumes that all information provided by EDR regarding the regulatory status of facilities within the ASTM Standard approximate minimum search distance is complete, accurate and current.
3. Other - EBC assumes that all information provided through interviews is complete and unbiased.

## 1.4 Limitations and Exceptions

The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections, examination of records in the public domain, and interviews with individuals having information about the site. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.
2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by EBC.
4. EBC's Phase I ESA report presents professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, or

regulations, or policies of federal, state, or local government agencies. EBC does not assume liability for financial or other losses or subsequent damage caused by or related to any use of this document.

5. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
6. This report is based, in part, on information supplied to EBC by third-party sources. While efforts have been made to substantiate this third-party information, EBC cannot attest to the completeness or accuracy of information provided by others.

## 1.5 Special Terms and Conditions

Authorization to perform this assessment was given by a proposal for services between Jacobs Realty and EBC.

## 1.6 User Reliance

This report was prepared for the exclusive use of Jacobs Realty; no other party may use the report without the written authority of EBC.

# 2.0 PROPERTY DESCRIPTION AND PHYSICAL SETTING

## 2.1 Location and Legal Description

The street address of the Site is 505 Union Avenue, Brooklyn, New York 11211, but the property spans from 503 to 515 Union Avenue. The Site is identified as Block 2315, Lot 21 on the Borough of Brooklyn Tax Map. The lot is located in the City of New York and Borough of Brooklyn (Kings County) as shown in **Figures 1 and 2A**. The lot is located on the west side of Union Avenue, between Jackson Street and Skillman Avenue. Lot 21 is a trapezoidal shaped lot with 147 feet of frontage on Union Avenue, 158 feet in the rear of the lot, 100 feet deep on the north side, and tapers to 41 feet deep on the south side for total property area of 9,375 $ft^2$ (**Figure 2B**). An aerial photo of the Site and surrounding properties is provided as **Figure 3.**

A copy of the deeds for Lot 21 is attached in **Appendix B**. According to the most recent deed, the current owner of the Site is DYR Holdings LLC.

## 2.2 Site Characteristics

The property is improved with a 2-story commercial building which covers the entire lot. The building includes a retails sales showroom and offices and a 7,000 sf warehouse area. The building is currently vacant but was most recently used by S&J Supply, a building materials retailer.

Photos taken during of the Site during the site inspection are attached in **Appendix A**.

### *2.2.1 Utilities*

Electric service for the building is provided by Con-Edison, potable water is supplied by the New York City Department of Environmental Protection (NYCDEP). Sanitary wastes for the building are discharged to the municipal sewer system.

## 2.3 Physical Setting

The elevation of the property is approximately 14 feet above the National Geodetic Vertical Datum (NGVD). The topography in the immediate area of the property generally slopes upward to the north, south and east.

### *2.3.1 Surface Water*

The nearest body of water to the Site is the East River, which is located approximately 3,500 feet to the west-northwest.

### *2.3.2 Groundwater*

The depth to groundwater beneath the site as inferred from available groundwater maps and topographic elevation is approximately 8 feet below grade. Based on regional groundwater contour maps groundwater flow is expected to be west toward the East River. No Public Supply Wells were identified within a one-mile radius of the Site.

### *2.3.3 Radon Risk Evaluation*

Radon is a colorless, radioactive; inert gas formed by the decay of radium and may be present in soils and rocks containing granite, shale, phosphate and pitchblende. The USEPA's “Map of Radon Zones for New York State”, September 1993 indicates that Kings County is not a radon risk area. The EDR report provides information from the New York State Department of Health radon survey which indicates that 100% of those sites tested in Kings County were below the United States Environmental Protection Agency (USEPA) radon action level of 4 Pico curies per liter (pCi/L) in the living area.

# 3.0 PROPERTY USAGE

## 3.1 Current Property Usage

The building is currently vacant but was most recently used by S&J Supply, a building materials supply retailer.

A review of New York City Department of Buildings (NYCDOB) records and the NYC Department of City Planning Zoning map indicates that the Site is zoned M1-2/R6B (**Figure 4A**). The 1961 NYC Department of City Planning Zoning Map indicates that Site were formerly zoned M1-2 **(Figure 4B)**.

## 3.2 Current Usage of Adjoining/Surrounding Properties

A summary of the uses of the surrounding/adjacent properties is described below. Photos of the exterior of adjacent properties are attached in **Appendix A**.

**Surrounding Property Usage**

| Direction | Property Description |
|---|---|
| **North –** Adjacent Properties | Block 2315, Lot 14 (525 Union Avenue) – Developed with a 5-story apartment building with 42 residential units. The building was recently completed in 2007. |
| **South –** | Block 2315, Lot 26 (497 Union Avenue) – Developed with a 3-story mixed use residential/commercial building. The building was built approximately 1930. |
| **East –** | A small park in an intersection (Mt. Carmel Triangle) is located east across Union Street from the Site. |
| **West –** Adjacent properties | Block 2315, Lot 33 (275 North 8th Street) – Developed with 3 buildings: A 2-floor Rectory building located along the northern border of the lot, a 2-story convent in the center of the lot, and a small 1-story building located along the southern border of the lot. The 2-story buildings have basements and the property was developed approximately 1920. |

## 3.3 Historical Usage of Site and Surrounding Properties

Historical sources researched to determine past usage of the Site and surrounding properties are as follows:

**Sanborn Fire Insurance Maps -** Sanborn fire insurance maps for the Site and surrounding area were reviewed for the years 1887, 1905, 1916, 1942, 1951, 1965, 1978, 1979, 1980, 1981, 1982, 1983, 1986, 1987, 1988, 1989, 1991, 1993, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006 and 2007. The review is summarized in Section 3.3.1 and 3.3.2. Copies of Sanborn maps are included as **Appendix C**.

**City Directory Abstract -** A directory of historical telephone listings at the Site and surrounding properties were reviewed from approximately five year intervals for the years spanning 1922 through 2005. The review is summarized in Sections 3.3.2 below. A copy of the City Directory is included in **Appendix D**.

### *3.3.1 Sanborn Fire Insurance Maps - Site and Adjacent Properties*

The historical usage of the Site and adjacent properties, identified through Sanborn map review, is summarized below.

***1887***

*Subject Site:*

- Block 2315, Lot 21 (505 Union Avenue) – The lot is divided into 5 separate lots (229-237 Union Avenue). The entire lot is undeveloped and vacant.

*Adjacent properties:*

*North*

- Block 2315, Lot 14 (525 Union Avenue) – The lot is separated into multiple lots. A 3-story dwelling and small attached shed are developed at 247 Union Avenue (approximately in the center of the lot with street frontage on Union Avenue).

*West*

- Block 2315, Lot 33 (275 North 8th Street) – Separated into several undeveloped vacant lots

*South*

- Block 2315, Lot 26 (497 Union Avenue) – Displayed undeveloped and vacant

*East*

- No current Block or Lot number (Mt Carmel Triangle) – Block 2746 located across Union Avenue from the subject site is developed with multiple dwellings and a bakery on the corner of Jackson Street and Union Avenue. Block 2746 is prior to construction of the Brooklyn Queens Expressway (BQE).

***1905***

*Subject Site:*

- Block 2315, Lot 21 (505 Union Avenue) – The multiple lots combined to one lot and the property was developed by Laurence Hughes (229-241 Union Avenue). The property has a 1-story warehouse labeled junk in the southern portion of the lot, a stable and a scale in the center, and a 1-story warehouse labeled rags in the northern portion of the lot. The property is used as a junk yard and rag storage facility[1].

[1] *The former use of the subject site as a junk yard is considered a significant environmental concern for this assessment.*

*Adjacent properties:*

*North*

- Block 2315, Lot 14 (525 Union Avenue) – The multiple lots combined to one lot and the property was developed by Vogeley & Lackman Manufacturers of Mirrors. The property is developed with a large 2-story warehouse located in the front of the lot with "silvering" on the first floor and "grinding & polishing" on the second floor. A second smaller adjoining 2-story building is used as an engine room. A small 1-story building in the rear yard is used as "mirror storage".

*South*

- Block 2315, Lot 26 (497 Union Avenue) – Developed with a 2-story dwelling that has offices on the first floor and 1-story stable to on the northern border of the lot.

***1916***

*Subject Site:*

- Block 2315, Lot 21 (505 Union Avenue) – Additional stables were developed in the front of the lot.

*Adjacent properties:*

*North*

- Block 2315, Lot 14 (525 Union Avenue) – Additional 1-story buildings were developed in the rear of the lot. The buildings are most likely storage.

*West*

- Block 2315, Lot 33 (275 North 8th Street) – Developed with a 1-story storage building loacated at 285 N. 8th Street.

*South*

- Block 2315, Lot 26 (497 Union Avenue) – Developed with a 3-story mixed use commercial residential building.

***1942***

*Subject Site:*

- Block 2315, Lot 21 (505 Union Avenue) – The property numbers along Union Avenue changed to the numbers used today (503-515 Union Avenue). Majority of the property is undeveloped. The only remaining buildings on the property are a 1-story store and a small adjoining structure labeled vacant on the southern border of the lot (503 Union Avenue)

*Adjacent properties:*

*North*

- Block 2315, Lot 14 (525 Union Avenue) – The large 2-story building in the front of the lot is labeled "Metal Store Front Manufacturer".

*East*

- No current Block or Lot number (Mt Carmel Triangle) – Block 2746 was cut in half by Meeker Avenue. Across Union Avenue from the Site is a 4-way intersection of Jackson Street, Union Avenue, Meeker Avenue, and Skillman Avenue.

***1951***

*Subject Site:*

- Block 2315, Lot 21 (505 Union Avenue) – The property is developed with a 1-story building labeled "saw" in the rear of the lot at 503 Union Avenue and 1-story building with a mezzanine labeled "lumber" occupying the rest of the lot. 499 Union Avenue is developed with a 1-story store.

*Adjacent properties:*

*East*

- No current Block or Lot number (Mt Carmel Triangle) – The elevated Brooklyn Queens Expressway was built along Meeker Avenue. The intersection median (Mt Carmel Triangle) across Union Avenue from the Site is also displayed.

*West*

- Block 2315, Lot 33 (275 North 8th Street) – Developed with a 2-story convent from 283 to 277 N. 8th Street.

***1965***

*Site:*

No significant changes were noted for the Site on the 1965 Sanborn map when compared to the 1951 Sanborn map for the Site.

*Adjacent properties:*

*West*

- Block 2315, Lot 33 (275 North 8th Street) – Developed with a 2-story Rectory (275 N. 8th Street) attached to 1-story church with a mezzanine.

***1978-2004***

No significant changes were noted for the Site and adjacent properties on the 1978 through 2004 Sanborn maps when compared to the 1965 Sanborn map for the Site.

***2007***

*Site:*

No significant changes were noted for the Site on the 2007 Sanborn map when compared to the 2004 Sanborn map for the Site.

*Adjacent properties:*

*North*

- Block 2315, Lot 14 (525 Union Avenue) – The entire lot is displayed undeveloped and vacant.

***Summary***

Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the Site identified the Site as being undeveloped prior to 1887. The Site was used from at least 1887 to sometime before 1904 as a junk yard and rag/paper warehouse. By 1942 the warehouse was demolished and the property was used as a small storefront. The existing building was constructed in 1946 and used by a lumber supply company. The property was used as a building materials warehouse from at least 1965 to 2011 when the building was vacated.

# 4.0 USER PROVIDED INFORMATION

## 4.1 Title Records

As of the date of this report the user has not requested that EBC perform a title search.

## 4.2 Environmental Liens

An environmental lien is a charge, security or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup or other remediation of hazardous substances or petroleum products upon a property, including, but not limited to, liens imposed pursuant to CERCLA 42 USC § 9607 (1) & 9607(r) and similar state and local laws.

The user has not made EBC aware of any environmental liens against the Site and has not requested that EBC perform an environmental lien search for the Site.

## 4.3 Specialized Knowledge

The user has not made EBC aware of any specialized knowledge regarding the chemicals or processes formerly in use at the Site or surrounding property.

## 4.4 Commonly Known or Reasonably Ascertainable Information

The user has not made EBC aware of any commonly known or reasonably ascertainable information regarding the past uses of the Site, specific chemicals in use at the Site or any spills, chemical releases or environmental cleanups at the Site.

## 4.5 Valuation Reduction for Environmental Issues

The user has not made EBC aware of any valuation reduction regarding the sale price of the property.

## 4.6 Owner, Property Manager and Occupant Information

According to Office of City Register records, the current owner of Lot 21 is DYR Holdings, LLC.

## 4.7 Reason for Performing Phase I ESA

The Phase I ESA was performed to identify recognized environmental conditions at the Site as part of the due diligence to support the redevelopment of the property by Jacobs Realty.

# 5.0 RECORDS REVIEW

## 5.1 Standard Environmental Record Sources

Environmental Data Resources (EDR) of Southport, Connecticut was retained to provide a computerized database search of the project area within an ASTM-standard radius of the Site. A list of the databases searched and the search radius is shown on the summary table below. EBC reviewed the database output to determine if the property appears on any of the regulatory agency lists. Detailed information concerning each database list is provided in the EDR report (**Appendix E**). A summary of standard environmental record sources researched is as follows:

### *5.1.1 Federal Databases*

The table below summarizes the Federal databases that were searched.

**Federal Databases Searched**

| Agency | Listing Name or database Searched | Abbreviation | Search Distance |
|---|---|---|---|
| USEPA | National Priority List | NPL | 1.0 mile |
| USEPA | National Priority List Deletions | Delisted NPL | 1.0 mile |
| USEPA | Comprehensive Environmental Response Compensation and Liability Act Registry | CERCLIS | 0.5 mile |
| USEPA | CERCLIS No Further Remedial Action Planned | CERCLIS-NFRAP | 0.5 mile |
| USEPA | Resource Conservation and Recovery Act Corrective Action Activity | CORRACTS | 1.0 mile |
| USEPA | Resource Conservation and Recovery Act Treatment/Storage/Disposal Facilities | RCRA TSD | 0.5 mile |
| USEPA | Resource Conservation and Recovery Act Small/Large Quantity Hazardous Waste Generators | RCRA SQG/LQG | Site and Adjoining |
| USEPA | Federal Institutional/Engineering Control registries | US INST/ENG Controls | Site |
| USEPA | Emergency Response Notification System | ERNS | Site |
| USEPA | Superfund (CERCLA) Consent Decrees | CONSENT | 1.0 mile |
| USEPA | Records of Decision | ROD | 1.0 mile |
| USEPA | Mines Master Index | MINES | 0.25 mile |

**Federal NPL List -** The National Priority List (NPL) is the United States Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the federal Superfund Program.

*Findings*: The Site is not listed as an NPL facility. No NPL sites were identified within a 1-mile radius of the Site.

**Federal Delisted NPL List –** NPL Delisted Sites are former NPL sites that have been remediated and removed from the EPA's priority list. Sites are deleted where the EPA has determined that no further response is appropriate.

*Findings*: The Site is not identified as a Delisted NPL facility. There were no Delisted NPL sites identified within a 1-mile radius of the Site.

**Federal CERCLIS List -** The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances.

*Findings*: The Site is not listed as a CERCLIS facility. There are no CERCLIS sites identified within a ½ mile radius of the Site.

**Federal CERCLIS-NFRAP List –** No Further Remedial Action Planned (NFRAP) 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).

*Findings*: The Site is not listed as a CERCLIS-NFRAP facility. Two CERCLIS-NFRAP sites were identified within a ½ mile radius of the Site.

City Barrel and Drum Co. Inc is listed as a CERCLIS-NFRAP site. The facility is located at 421 Meeker Avenue, Brooklyn, NY 11222 (approximately 1,987 feet northeast of the Site). The facility is also listed within the RCRA-NonGen, and FINDS databases.

However, due to the distance and location of the facility from the Site, it is not considered a significant environmental concern for this assessment.

Service Plating Co LTD is listed as a CERCLIS-NFRAP site. The facility is located at 154 N. 7th Street, Brooklyn, NY 11211 (approximately 2,030 feet west-northwest of the Site). The facility is also listed within the RCRA-NonGen, FINDS, MANIFEST, LIEN 2, UST, and Hist UST databases. However, due to the distance and location of the facility from the Site, it is not considered a significant environmental concern for this assessment.

**Federal RCRA CORRACTS List -** The RCRA Corrective Actions (CORRACTS) database is the EPA's list of hazardous waste treatment, storage or disposal facilities subject to corrective action under RCRA.

*Findings*: The Site is not listed as a RCRA CORRACTS facility. One RCRA CORRACTS sites were identified within a 1 mile radius of the Site.

Radiac Research Group is listed as a RCRA CORRACTS site. The facility is located at 33 S. First Street (approximately 3,683 feet west-northwest of the Site). The facility is also listed within the RCRA-TSDF, MANIFEST, RCRA-LQG, FTTS, Hist FTTS, PADS, and FINDS database. Due to the distance and location of the facility from the Site, it is not considered a significant environmental concern for this assessment.

**Federal RCRA Treatment, Storage and Disposal -** The EPA Resource Conservation and Recovery Act (RCRA) program identifies reporting facilities that treat, store or dispose of hazardous waste.

*Findings*: The Site is not listed as a RCRA TSD facility and no TSD facilities were identified within a ½ mile radius of the Site.

**Federal RCRA Generators -** The RCRA Generators database is a compilation of reporting facilities that generate hazardous waste. A Small Quantity Generator (SQG) is a site which generate more than 100 and less than 1000 kg of hazardous waste during any one calendar month and accumulates less than 6000 kg of hazardous waste at any time; or a site which generates less than 100 kg of hazardous waste during any one calendar month and accumulates less than 1000 kg of hazardous waste at any

time. Large Quantity Generators (LQG) generate more that 1000 kg of hazardous waste per month. Although a property may be identified as a generator of hazardous waste, it does not mean that this material has been released to the environment. RCRA Generators which have released hazardous materials are identified in the appropriate state or federal listing.

*Findings:* The Site is not listed as a RCRA-SQG, RCRA-CESQG, RCRA-LQG or RCRA-NonGen facility. Five RCRA-LQG facilities, five RCRA-SQG facilities and four RCRA-CESQG facilities were identified within a 1/4 mile radius of the Site.

Two of the five RCRA-LQG facilities were related to the cleanup of manholes by Con-Edison. Con Edison listings such as this one are typically associated with small cleanups within manholes due to small equipment leaks. Therefore, the listing is not considered a significant environmental concern for this assessment.

261 Development Group is listed as a RCRA-LQG. The facility is located at 261 N. 9th Street Brooklyn, NY 11211, which is 676 feet west-northwest of the Site. Due to the distance and location of the facility from the Site, this facility is not considered a significant environmental concern for this investigation.

NYCT – Lorimer Street Station is listed as a RCRA-LQG site. The facility is located at the intersection of Lorimer Street and Metropolitan Avenue, which is 915 feet southeast of the Site. The waste associated with this facility is lead, which is common for small cleanups of stations. Therefore, the listing is not considered a significant environmental concern for this assessment.

Bayard House, LLC is listed as a RCRA-LQG site. The facility is located at 60-64 Bayard Street Brooklyn, NY, which is 1,140 feet north-northeast of the Site. The waste associated with this facility is lead. Due to the distance of this facility from the Site and the nature of lead contamination, this facility is not considered a significant environmental concern for this investigation.

544 Union Owner, LLC is listed as a RCRA-SQG. The facility is located at 544 Union Avenue (approximately 401 feet north-northwest of the Site). The facility is also listed in

the FINDS and MANIFEST databases. Lead laden soil was removed from the site as well as barrels of spent halogenated solvents. The EDR database notes the site complied with a site evaluation in 2008 (after the waste material was removed). Due to absence of inclusion any contamination of onsite soil and groundwater, this facility is not considered a significant environmental concern for this investigation.

Metro Cleaners is within between 1/8 and 1/4 of a mile to the Site (823 feet south-southeast of the Site). No violations were discovered for this facility and it is not considered a significant environmental concern for this assessment.

S F A Leinoff Inc located at 417 Union Avenue (1,221 feet south of the Site) and listed in the RCRA-SQG, MANIFEST, and FINDS databases. However, due to the location of the facility and groundwater flow direction in the area to the west, the site is not considered a significant environmental concern for this assessment.

The last facility is the NYCT Metropolitan Ave and Union Ave station (747 feet southfrom the Site). It is also listed in the FINDS and MANIFEST databases for lead waste. Due to the distance of this facility from the Site and the nature of lead contamination, this facility is not considered a significant environmental concern for this investigation.

Mccaren Mews LLC located at 204 N. 11$^{th}$ Street (1,221 feet north-northwest of the Site) and listed in the RCRA-SQG and MANIFEST databases for lead laden soil removed from the site. Due to the location of the facility, the site is not considered a significant environmental concern for this assessment.

Three of the four RCRA-CESQG results all belonging to Con Edison. Con Edison listings such as this one are typically associated with small cleanups within manholes due to small equipment leaks. Therefore, the listing is not considered a significant environmental concern for this assessment.

Brothers Cleaners of 106 Roebling Street (approximately 1,246 feet west of the Site) is listed as a RCRA-CESQG. This facility is also listed in the MANIFEST database. No

violations were discovered for this facility, therefore it is not considered a significant environmental concern for this assessment.

**Federal Institutional/Engineering Controls –** Federal Institutional/Engineering Controls databases list sites with institutional/engineering 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. 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.

*Findings:* No Federal Institutional/Engineering Controls were listed for the Site and no sites were identified within a ½ mile radius of the Site.

**Federal Emergency Response Notification System -** The Emergency Response Notification System (ERNS) is national database used collect information on reported releases of oil or hazardous substances.

*Findings:* The Site and adjacent properties were not identified in the ERNS databases.

**Federal Superfund Consent Decrees -** The Superfund Consent Decrees (CONSENT) list identifies major legal settlements that establish responsibility and standards for cleanup at NPL sites.

*Findings*: Neither the Site nor any property within one mile of the Site is identified in the CONSENT databases.

**Federal Records of Decision -** Record of Decision (ROD) documents mandate a permanent remedy at an NPL site containing technical and health information to aid in the cleanup.

*Findings*: Neither the Site nor any property within one mile of the Site is identified a ROD site.

**Federal Master Mines Index -** The Master Mines Index (MINES) file contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

*Findings:* Neither the Site nor any property within ¼ mile of the Site is listed in the MINES database.

### *5.1.2 New York State Databases*

The table below summarizes the State databases that were searched.

**New York State Databases Searched**

| Agency | Listing Name or database Searched | Abbreviation | Search Distance |
|---|---|---|---|
| NYSDEC | Inactive Hazardous Waste Disposal Sites in New York State | SHWS | 1.0 mile |
| NYSDEC | Solid Waste Facility Register | SWF | 0.5 mile |
| NYSDEC | Registered Recycling Facilities | SWRCY | 0.5 mile |
| NYSDEC | Registered Waste Tire Storage Facilities | SWTIRE | 0.5 mile |
| NYSDEC | Leaking Underground Storage Tank Sites | LTANKS | 0.5 mile |
| NYSDEC | Petroleum Bulk Storage (PBS) | UST/AST | Site and Adjoining |
| NYSDEC | Chemical Bulk Storage (CBS) | CBS AST/UST | Site and Adjoining |
| NYSDEC | Institutional/Engineering Control registries | INST/ENG Controls | Site |
| NYSDEC | Voluntary Cleanup Agreements | VCP | 0.5 mile |
| NYSDEC | Brownfield sites | Brownfields | 0.5 mile |
| NYSDEC | Major Oil Storage Facilities | MOSF | 0.5 mile |
| NYSDEC | New York State Spills | NYSPILLS | 0.125 mile |
| NYSDEC | Dry Cleaner Site | Drycleaners | 0.25 mile |

**NYS Inactive Hazardous Waste Disposal Sites -** The New York State Department of Environmental Conservation (NYSDEC) maintains a state priority list of Inactive Hazardous Waste Disposal Sites (SHWS) considered to be actually or potentially contaminated and presenting a possible threat to human health and the environment. 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/waste sites.

*Findings*: The Site is not listed as a SHWS site. Six SHWS sites were identified within a 1 mile radius of the Site.

BQE/Ansbacher Dye Factory – The old Ansbacher Dye Factory is listed as a SHWS site. The facility is located underneath the Brooklyn-Queens Expressway along Meeker Avenue

between Metropolitan Avenue and Union Avenue in the Williamsburg area of Brooklyn, NY (approximately 825 feet southwest of the Site). The site is classified as "does not present a significant threat to the public health or the environment – Action may be deferred". Due to this classification, this area is not considered a significant environmental concern for this assessment.

Former Klink Cosmo Cleaners – This former dry cleaning facility is listed as a SHWS site. The facility is located at 364 Richardson Street Brooklyn, NY (approximately 4,185 feet east-northeast from the Site). A tetrachloroethene (PCE) plume was discovered in 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). The plume of contamination has moved at least 1,200 feet downgradient (north) and is considered a significant threat to the public health due to an ongoing release of PCE into the soil and groundwater. Exposure to site related contamination in drinking water and soil is unlikely since the homes and businesses of the area are supplied with public water and contaminants are below the ground surface. The possibility of chemical vapors migrating into nearby homes exists, but due to the distance of this facility from the Site and the direction the plume is traveling (north), this facility is not considered a significant environmental concern for this investigation.

Acme Steel/ Metal Works – This metal fabricator and painting facility is listed as a SHWS site. The facility is located at 95 Lombardy Street Brooklyn, NY (approximately 4,604 feet east-northeast from the Site). A trichloroethylene (TCE) plume was discovered in 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). The plume of contamination has moved at least 400 feet downgradient and is considered a significant threat to the public health due to an ongoing release of TCE into the soil and groundwater. Exposure to site related contamination in drinking water and soil is unlikely since the homes and businesses of the area are supplied with public water and contaminants are below the ground surface. The possibility of chemical vapors migrating into nearby homes exists, but due to the distance of this facility from the Site, this facility is not considered a significant environmental concern for this investigation.

Former Spic and Span Cleaners and Dyers, Inc (a.k.a. Eastern District Dye Works)– This former dry cleaning and dyeing facility is listed as a SHWS site. The facility is located at 315 Kingsland Avenue Brooklyn, NY (approximately 4,850 feet north-northeast from the Site). A tetrachloroethylene (PCE) plume was discovered in 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). The site is considered a significant threat to the public health due to an ongoing release of PCE into the soil and groundwater. Exposure to site related contamination in drinking water and soil is unlikely since the homes and businesses of the area are supplied with public water and contaminants are below the ground surface. The possibility of chemical vapors migrating into nearby homes exists, but due to the distance of this facility from the Site, this facility is not considered a significant environmental concern for this investigation.

ACME Steel/ Brass Foundry – This former brass foundry is listed as a SHWS site. The facility is located at 72 Anthony Street Brooklyn, NY (approximately 5,092 feet north-northeast from the Site). A plume of the solvents tetrachloroethene (PCE) and trichloroethene (TCE) was discovered in 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). The site is considered a significant threat to the public health due to an ongoing release of PCE and TCE into the soil and groundwater. Exposure to site related contamination in drinking water and soil is unlikely since the homes and businesses of the area are supplied with public water and contaminants are below the ground surface. The possibility of chemical vapors migrating into nearby homes exists, but due to the distance of this facility from the Site, this facility is not considered a significant environmental concern for this investigation.

Williamsburg Works Manufactured Gas Plant- This site is listed as a SHWS site. The facility is located along the east bank of the East River between North 11$^{th}$ and North 12$^{th}$ Streets (approximately 3,278 feet northwest of the Site). An IRM is pending for this site, but due to its distance from the Site and the regional flow of groundwater this facility is not considered a significant environmental concern for this assessment.

**NYS Landfill -** The NYSDEC Solid Waste Facility Register records contain an inventory of solid waste disposal facilities or landfills in New York State.

*Findings:* The Site is not listed as a landfill. One SWF/LF facility was identified within a ½ mile radius of the Site.

National Paper Stock Inc is listed as a SWF/LF site. The facility is located at 136 North 10th Street Brooklyn, NY (approximately 2,101 feet northwest of the Site). The facility is listed as a no longer active transfer station. Due to the distance of the facility from the Site, it is not considered a significant environmental concern for this investigation.

**NYS Registered Recycling Facilities -** The Registered Recycling Facilities List (SWRCY) is a NYSDEC list of recycling facilities.

*Findings:* The Site is not listed as a SWRCY site. No SWRCY sites were identified within a ½ mile radius of the Site.

**NYS Registered Waste Tire Storage Facilities -** The Registered Recycling Facilities List (SWTIRE) is a NYSDEC list of Registered Waste Tire Storage & Facility List.

*Findings:* The Site is not listed as a SWTIRE site. There were no SWTIRE sites identified within a ½ mile radius of the Site.

**NYS Leaking Underground Storage Tank Sites -** The Leaking Underground Storage Tank Sites (LTANKS) database contains a NYSDEC inventory of reported leaking storage tank incidents. 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.

*Findings:* The Site is not identified as a LTANKS site. However, 36 LTANK and 23 Historical LTANK sites were identified within ½ mile of the Site. 33 of the 36 LTANK spill numbers have been closed by the NYSDEC. Due to the closure of the spills by the NYSDEC none are considered to be a significant concern for this assessment. The three open spill numbers are reviewed below.

Spill Number 9703488 – Engine Company 229 is listed as a LTANK and Hist LTANK site. The facility is located at 75 Richardson Street (approximately 1,064 feet northeast of the

Site). Monitoring wells on site showed free product of kerosene and gasoline. Remediation is still in progress with injection of PermeOx (oxidant material), quarterly groundwater sampling and monthly vacuum truck extraction in 3 of the monitoring wells onsite. Due to the distance and location of the facility from the Site, this facility is not considered a significant environmental concern fro this investigation.

Spill Number 0307525 – 187 Bedford Avenue is listed as a LTANK site (approximately 1,901 feet west-northwest of the Site). This site failed a tank test in 2003 and the investigation is still pending. Due to the location and distance of this site from the Site, this LTANK site is not considered a significant environmental concern fro this investigation.

Spill Number 9007766 – Mobil S/S #17 is listed as a LTANK and Hist LTANK site. This site is located at 550 Humboldt Street Brooklyn, NY (approximately 2,474 feet northeast of the Site). Numerous other spill numbers were opened and closed after remediation for this gas station. The current one open is due to the discovery of an ethanol spill. A tank on the site failed a line test. The lines were repaired and retested. Remediation of the ethanol is pending. Due to the distance of this facility from the Site, it is not considered a significant environmental concern for this investigation.

**NYS Petroleum Bulk Storage -** The NYSDEC Petroleum Bulk Storage - Underground Tanks (UST) database lists facilities with a petroleum storage capacity of more than 1,100 gallons and less than 400,000 gallons. The NYSDEC Petroleum Bulk Storage - Aboveground Tanks (AST) database lists facilities with registered above ground storage tanks.

*Findings:* The Site is not listed as a UST, Hist UST, AST or Hist AST site. However, 23 UST sites, 17 HIST UST sites, and 13 AST sites are registered within a ¼ mile radius of the Site. Properties with registered ASTs or USTs do not necessarily pose a hazard unless the tanks are leaking or a spill occurs. Most tanks in the area hold home heating oil for on-site boilers and furnaces. Sites with leaking tanks or spills are addressed in the appropriate section.

**NYS Chemical Bulk Storage -** The Chemical Bulk Storage (CBS) database is a NYSDEC list of facilities that store regulated hazardous substances in aboveground tanks (AST) with capacities of 185 gallons or greater or underground tanks (UST) of any size.

*Findings*: The Site is not identified as a CBS facility. One CBS UST and one CBS AST facilities were identified within a ¼ mile radius of the subject search. Properties with registered ASTs or USTs do not necessarily pose a hazard unless the tanks are leaking or a spill occurs. Most tanks in the area hold home heating oil for on-site boilers and furnaces. Sites with leaking tanks or spills are addressed in the appropriate section.

**NYS Institutional/Engineering Controls –** NYSDEC list of Environmental Remediation sites with Institutional or Engineering Controls in place.

*Findings:* Neither the Site nor any site within a ½ mile of the Site was identified in the NYSDEC Institutional/Engineering Controls databases.

**NYS Voluntary Cleanup Agreements -** The NYSDEC Voluntary Cleanup Program (VCP) database identifies hazardous waste sites undergoing private sector cleanup as part of redevelopment.

*Findings:* The Site was not identified as a VCP site. No VCP sites were identified within a ½ mile radius of the Site.

**NYS Brownfields -** 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.

*Findings*: The Site was not identified as a Brownfield site. No Brownfield sites were located within ½ mile of the Site.

**NYS Major Oil Storage Facilities -** The NYSDEC Major Oil Storage Facilities (MOSF) database lists facilities or vessels with a petroleum storage capacity of more than 400,000 gallons.

*Findings*: The Site was not identified as an MOSF. No MOSF UST sites or MOSF AST sites were identified within ½ mile of the Site.

**NYS Spills -** The New York State Spills Information Database (NY SPILLS) contains data collected on chemical and petroleum spill incidents reported to NYSDEC since April 1, 1986.

*Findings:* The Site is not listed within either the NY SPILLS or NY Hist SPILLS databases. However, 12 spill sites and 9 historical spill sites were identified within $^{1}/_{8}$ mile of the Site. Each of the spills has been closed by the NYSDEC. After review and based on the decision of the NYSDEC to close these spill sites, they are not considered to be a significant concern for this assessment.

**MANIFEST:** Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

*Findings*: The subject property is not listed as a MANIFEST site. However, 33 manifest sites were identified within a ¼ mile radius of the Site. Since none of the manifest sites are either adjacent to the Site and/or do not appear in other EDR databases which would indicate a release has occurred, they are not considered to be a significant concern for this assessment. Facilities that may appear in an EDR Database which would indicate a release has occurred are discussed under the appropriate headings.

**Drycleaner Sites -** The NYSDEC maintains a listing of all registered drycleaners. Drycleaner sites do not necessarily pose a hazard unless a spill occurs. Sites at which spills have been identified are addressed in the appropriate section.

*Findings:* The Site is not identified as drycleaner. Two drycleaners were identified within ¼ mile of the site.

Top Hat Cleaners is listed as a PERC drycleaner. The facility is located at 592 Lorimer Street, which is approximately 726 feet southeast of the Site. Since the dry cleaning facility is not listed within a database which would indicate a spill/release had occurred, it is not considered a significant environmental concern for this assessment

Metropolitan Cleaners is listed as a PERC drycleaner. The facility is located at 568 Metropolitan Avenue, which is approximately 823 feet south-southeast of the Site. Since

the dry cleaning facility is not listed within a database which would indicate a spill/release had occurred, it is not considered a significant environmental concern for this assessment.

**NYS Manufactured Gas Plants -** Manufactured gas plants (MGP) 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, 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.

*Findings:* The Site is not identified as an MGP site. Three MGP sites were identified within a 1 mile of the Site. Due to the distance and/or location of each of the MGP sites, none are considered a significant concern for this assessment.

## 5.2 Additional Environmental Record Sources

### *5.2.1 Local Agency Review*

A Freedom of Information Act (FOIA) request was sent to the New York City Department of Health (NYCDOH) for information regarding hazardous operations including the registration of fuel storage tanks, past spills, or violations. As of the date of this report, a response had not been received for the FOIA request. Regulatory agencies usually take six to eight weeks to process FOIA requests. Any pertinent information received will be reviewed and forwarded upon receipt. Copies of FOIA requests and regulatory agency responses are included in **Appendix B**.

In addition, a tank request form was submitted to the City of New York Fire Department to obtain certified reports outlining information regarding any listed tank information held in FDNY District Office Folders and computer files. As of the date of this report, a response had not been received. Any pertinent information received will be reviewed and forwarded upon receipt. A copy of the tank request form forwarded to the City of New York Fire Department is included in **Appendix B**.

The NYC OASIS Interactive Maps (http://www.oasisnyc.net/map.aspx) were reviewed to obtain a New York City Department of Buildings Property Profile Overview for the four lots comprising the

Site. Information available on the interactive website include historic Certificate of Occupancies, boiler records and DEP Boiler Information, records of complaints and both DOB and ECB violations, site restriction status (such as little "E", TA, UB, or SRO restrictions), additional DCB addresses, as well as job filings and permits. Information from the website has been attached in **Appendix B**. The information is summarized briefly below.

- Alterations occurred to the buildings on the site in 1936, 1945, 1961, and 1982
- Building Notices were issued in 1921, 1943, and a new building in 1945
- A demolition notice was issued in 1941
- A 1946 Certificate of Occupancy (COC) described offices at the Site. A second 1946 COC described a lumber shed.
- A 1961 Certificate of Occupancy described a 2-story building. The first floor was used as storage, offices, sales displays of lumber and building products, mechanical cutting of lumber, and loading/unloading. The mezzanine was used as offices and storage.
- Plans submitted for a renovation of the existing building in Lot 21 were disapproved in 2011 pending a zoning approval.
- The Department of Finance Building Classification is E-9 Warehouse.

*Lot 21 is listed as having a Hazmat little "E" restriction*. The Site has been assigned an E-designation (E-138) for Underground Storage Tanks Testing Protocol (Hazmat-E) as part of the Greenpoint-Williamsburg Rezoning enacted in November of 2003 (CEQR No. 04DCP003K). Additional information regarding "E" sites can be found on the New York City Office of Environmental Remediation website:
http://www.nyc.gov/html/oer/html/e_designation/e_designation.shtml.

### *5.2.2 Internet Search Results*

The street addresses of each of the Site lots were entered into www.Google.com to obtain site occupant information. The name of each of the companies identified by doing the internet search is provided below. A copy of the findings is presented in **Appendix F.**

- S&J Sheet Metal Supply Inc

### *5.2.3 Historic Zoning Map*

A review of the NYC Department of City Planning Zoning Map for 1961 indicates that the Site was formerly zoned M1-2 (**Figure 4B**).

# 6.0 SITE RECONNAISSANCE

## 6.1 Methodology and Limiting Conditions

Mr. Kevin Waters of EBC performed the site inspection on Wednesday, March 28, 2012, beginning at approximately 8:00 am. The reconnaissance included a visual inspection of the interior of the building, the sidewalk immediately in front of the Site building, and the exterior of adjacent properties.

Photos taken during the inspection are attached (**Appendix A)**.

## 6.2 Observations

At the time of the inspection the entire footprint of the lot was developed with two 2-story buildings (southern portion) and a large warehouse building (northern portion). Access to the interior of the southern most 2-story building was not provided at the time of the site inspection. The second 2-story building consisted of a former commercial space on the first floor (currently vacant) and second floor office space (also vacant). The first floor had an open floor plan with a concrete floor and the ceiling was covered with acoustical suspended ceiling tiles. The 2$^{nd}$ floor had multiple offices, a bathroom and kitchen area. Mold was present in some drop ceiling tiles that had fallen from the 2$^{nd}$ floor ceiling. Water damage from the ceiling was also identified in the kitchen. A ladder to the roof was present in the common area of the 2$^{nd}$ floor. The 2-story building and the warehouse were connected via a double door. The warehouse building was a high, one-story brick building with a steel roof and skylights. Two steel rollup garage doors provide access to the interior of the north portion of the building from Union Avenue. The floor of the north portion of the building was poured concrete. Minor staining of the concrete floor was identified. The staining was most likely from small leaks from the construction equipment being stored in the building. An unidentified piece of construction equipment was noticed leaking during the site inspection. Numerous drill rigs, excavators, trucks and other construction equipment were stored within the warehouse space during the inspection. A flat bed truck was being repaired during the site inspection. Numerous 1-gallon containers of paint thinner, paint/epoxy cans, metal cutting fluid and aerosol spray cans were identified during the site inspection. These materials were being used for repairing the onsite construction equipment. Steel acetylene and oxygen tanks along with 1-gallon and 5-gallon plastic gasoline containers were also identified onsite.

## 6.3 Aboveground Storage Tanks (AST)

No evidence of an AST was identified during the site inspection.

## 6.4 Underground Storage Tanks (UST)

No evidence indicating the presence of an underground storage tank was noted during the site inspection.

## 6.5 Hazardous and Non-Hazardous Chemical Storage and Disposal

The following hazardous and/or non-hazardous chemicals were identified during the site inspection with the building:

1) Numerous 1 gallon containers of paint thinner, epoxy and metal cutting fluid were observed within the warehouse building.
2) Numerous 1-5 gallon plastic gasoline containers were observed within the warehouse building.
3) Steel acetylene and oxygen air tanks were being stored in the north portion of the building.

## 6.6 Polychlorinated Biphenyls (PCBs)

No evidence of PCBs or PCB containing equipment was observed at the Site at the time of the site inspection.

## 6.7 Asbestos

An asbestos inspection was not performed as a part of this assessment. However, based on the age of the building, asbestos containing materials are likely present to some degree within the building.

## 6.8 Lead-Based Paint (LBP)

A lead-based paint inspection was not performed as a part of this assessment. Based on the age of the building, lead-based paint may be present to some degree within these areas.

## 6.9 Mold

Mold was observed in the central portion of the subject site building in the drop ceiling tiles on the mezzanine level.

# 7.0 INTERVIEWS

## 7.1 Owner

No representatives of the current property owner were available for an interview at the time this report was prepared. An addendum will be prepared and forwarded to Jacobs Realty, if an interview is conducted at a later date.

## 7.2 Occupants

No occupants were interviewed during the site inspection. An addendum will be prepared and forwarded to Jacobs Realty, if an interview is conducted at a later date.

## 7.3 Local Government Officials

A Freedom of Information Act (FOIA) request was sent to the New York City Department of Health (NYCDOH) for information regarding hazardous operations including the registration of fuel storage tanks, past spills, or violations. As of the date of this report, a response had not been received for the FOIA request. Regulatory agencies usually take six to eight weeks to process FOIA requests. Any pertinent information received will be reviewed and forwarded upon receipt. Copies of FOIA requests and regulatory agency responses are included in **Appendix B**.

In addition, a tank request form was submitted to the City of New York Fire Department to obtain certified reports outlining information regarding any listed tank information held in FDNY District Office Folders and computer files. As of the date of this report, a response had not been received. Any pertinent information received will be reviewed and forwarded upon receipt. A copy of the tank request form forwarded to the City of New York Fire Department is included in **Appendix B**.

# 8.0 FINDINGS AND OPINIONS

Based upon reconnaissance of the Site and surrounding properties, interviews and review of historical records and regulatory agency databases, **the following recognized environmental conditions have been identified** in connection with the Site.

- The former use of the Site as a junk yard.

  *Reason for Inclusion: Sites that operate as a junk yard store petroleum products (gasoline, kerosene, diesel, motor oil, hydraulic oil, gear or lube oil etc.) and other hazardous chemicals that pose a material threat of a release to subsurface soil and groundwater through spills, leaks, and improper disposal and handling.*

  *Discussion: The Sanborn Maps provided for the years from 1905 to 1916 display the Site as a junk yard. Sometime between the 1916 and the 1942 Sanborn Maps the junk yard was vacated and the buildings were demolished. NYC Department of Buildings records show a demolition permit for the Site in 1941.*

## 8.1 Additional Environmental Issues

### *8.1.1 E-Designation*

Lot 21 is listed as having a Hazmat "E" restriction. The Site has been assigned an E-designation (E-138) for Underground Storage Tanks Testing Protocol (Hazmat-E) as part of the Greenpoint-Williamsburg Rezoning enacted in November of 2003 (CEQR No. 04DCP003K). According to the NYC Office of Environmental Remediation the Site was assigned an E-designation due to the historical use of the site as a junk yard.

An E-designation does not interfere with the present use of the site; however E-designations do prevent the release of building permits subject to a detailed environmental review and release by the NYC Office of Environmental Remediation. Such release may require a full subsurface investigation, remedial and health and safety planning, implementation of a remedial program and documentation that the remedial program was completed during redevelopment of the property. Additional

information regarding "E" sites can be found on the New York City Office of Environmental Remediation website:

http://www.nyc.gov/html/oer/html/e_designation/e_designation.shtml.

# 9.0 CONCLUSIONS AND RECOMMENDATIONS

EBC performed a Phase I Environmental Site Assessment in conformance with the scope and limitations as described under ASTM Practice E1527-05 for the property identified as Block 2315, Lot 21 in Brooklyn, New York. Any exceptions to, or deletions from, this practice are described in **Section 1.4** of this report. *This assessment has revealed the following recognized environmental conditions in connection with the Site*:

- The former use of the Site as a junk yard from at least 1905 to at most 1941.

EBC recommends performing a Phase II Subsurface Investigation at the Site to include the collection and laboratory analysis of subsurface soil, groundwater, and sub-slab soil gas samples.

It should be noted that nearly any development scenario for the site is subject to the E-designation Environmental Review Program administered by the New York City Mayor's Office of Environmental Remediation (MOER) due to the hazardous materials "E" designation assigned to the site. Typical MOER Phase II investigation/sampling requirements for hazmat "E" sites are provided.

- Collection and laboratory analysis of for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), target analyte list (TAL) metals, PCBs and pesticides.
- Collection and laboratory analysis of groundwater samples for VOCs, SVOCs, TAL metals (filtered and unfiltered), PCBs and pesticides.
- Collection and laboratory analysis of soil gas samples for laboratory analysis of VOCs via EPA Method TO-15.

# 10.0 DEVIATIONS

This Phase I ESA was conducted in accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standard E 1527-05 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process) an 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule). Excluding additional services outlined in Section 11.0, there were no deviations or deletions from this practice.

# 11.0 ADDITIONAL SERVICES

EBC has included, in addition to those items outlined by ASTM E 1527-05, a general evaluation of radon impact potential based on USEPA maps.

# 12.0 REFERENCES

Standard practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Standard E 1527-05

All Appropriate Inquiry, Final Rule, 40 CFR Part 312

## 13.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

*Prepared By:*

Dominick Mosca
Environmental Scientist

*Reviewed By:*

Kevin R. Brussee
Project Manager

# QUALIFICATIONS OF
# ENVIRONMENTAL PROFESSIONAL

EBC

ENVIRONMENTAL BUSINESSS CONSULTANTS

**Kevin R. Brussee, Project Manager**

**Professional Experience**
EBC: January 2008
Prior: 6 years

**Education**
MS, Environmental Studies, University of Massachusetts, Lowell
BS, Environmental Science, Plattsburgh State University, NY

**Areas of Expertise**
- Site Investigations
- NYSDEC Spill Closure
- Gasoline/Fuel Oil Tank Removals
- NYC "E" Designations

**Professional Certification**
- OSHA 40-hr HAZMAT

## PROFILE

Mr. Brussee has 8 years experience as an environmental consultant/contractor and has worked on and managed a wide range of environmental projects. Mr. Brussee has conducted Phase I, II and III Environmental Site Assessments for commercial, industrial, and residential properties in New York, Maryland and Delaware.

Mr. Brussee's field experience includes tank removal and installations, spill management and closure, soil and groundwater sampling, and both the oversight and operation of soil boring and well installation equipment. In addition, Mr. Brussee has performed project research, data reduction and evaluation, and has prepared reports for both regulatory and client use.

## PREVIOUS EXPERIENCE

**Eastern Environmental Solutions, Inc., Manorville, NY**
Project Manager, 2006-2008

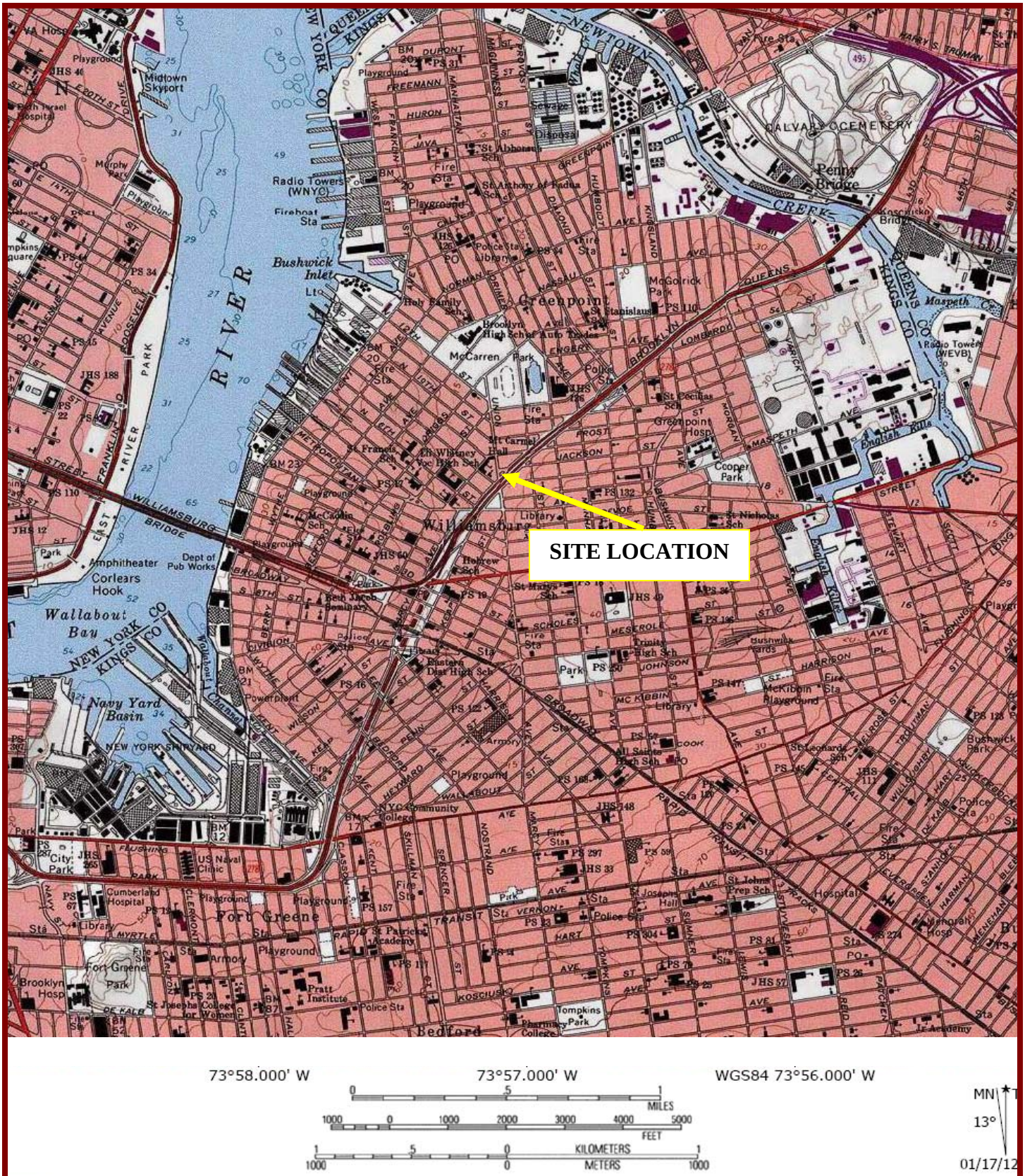
**EA Engineering, Science & Technology**
Hydrogeologist, 2005-2006

**P.W. Grosser Consulting, Bohemia, NY**
Field Hydrogeologist, 2002-2003

## PUBLICATIONS

Chemical Stress Induced by Copper, Examination of a Biofilm System;
(Water Science Technology, 2006; 54(9): 191-199.)

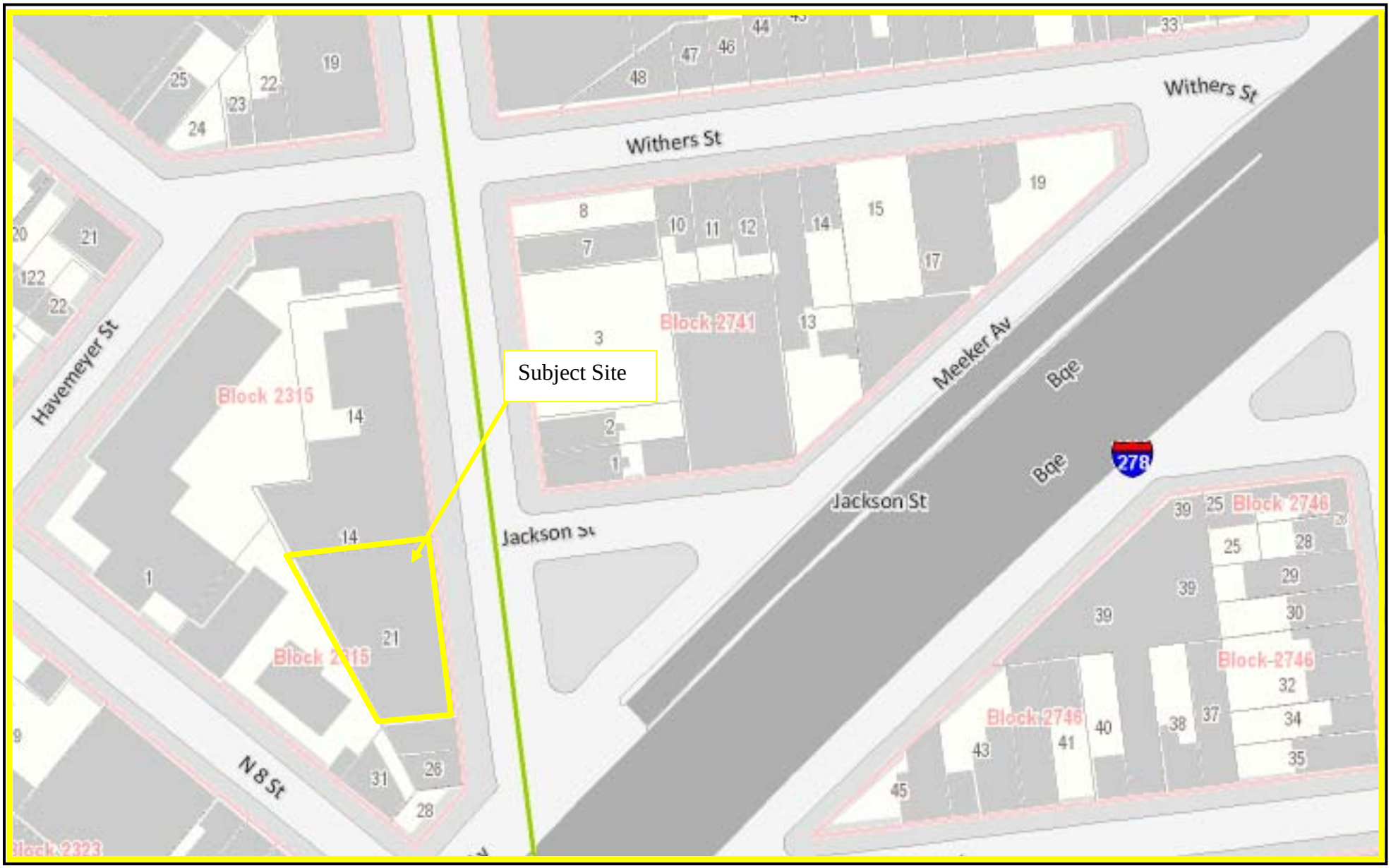
# FIGURES




EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631.924.2870

503-515 UNION AVENUE
BROOKLYN, NEW YORK 11211

FIGURE 1 – SITE LOCATION MAP

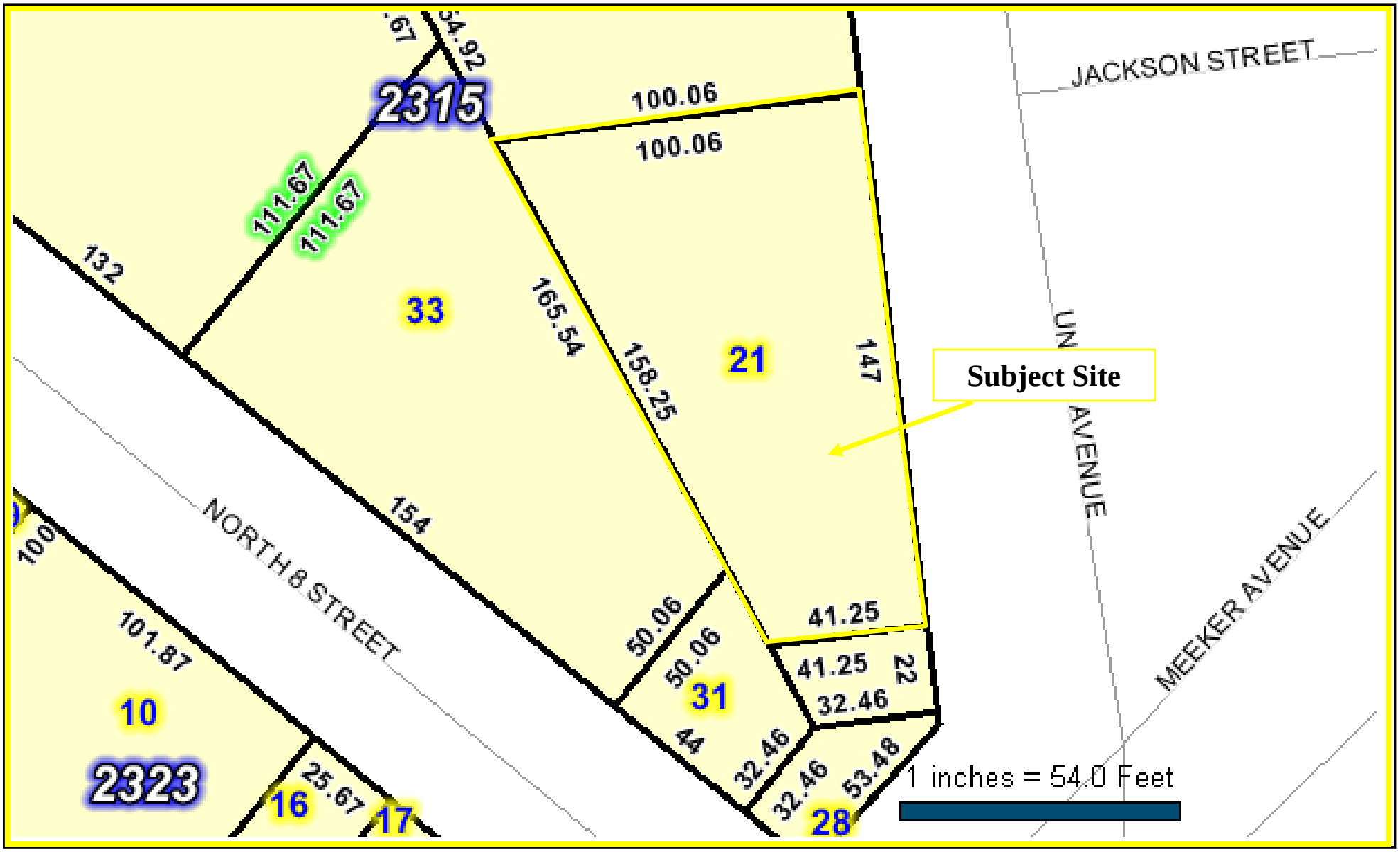



# FIGURE 2A – LOT DIAGRAM

505-515 UNION AVENUE
BROOKLYN, NEW YORK 11211

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2315 LOT 21)

EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870




# FIGURE 2B – LOT DIAGRAM

503-515 UNION AVENUE
BROOKLYN, NEW YORK 11211

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2315 LOT 21)

EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870

# FIGURE 3 – AERIAL MAP

503-515 UNION AVENUE
BROOKLYN, NEW YORK 11211

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2315 LOT 21)

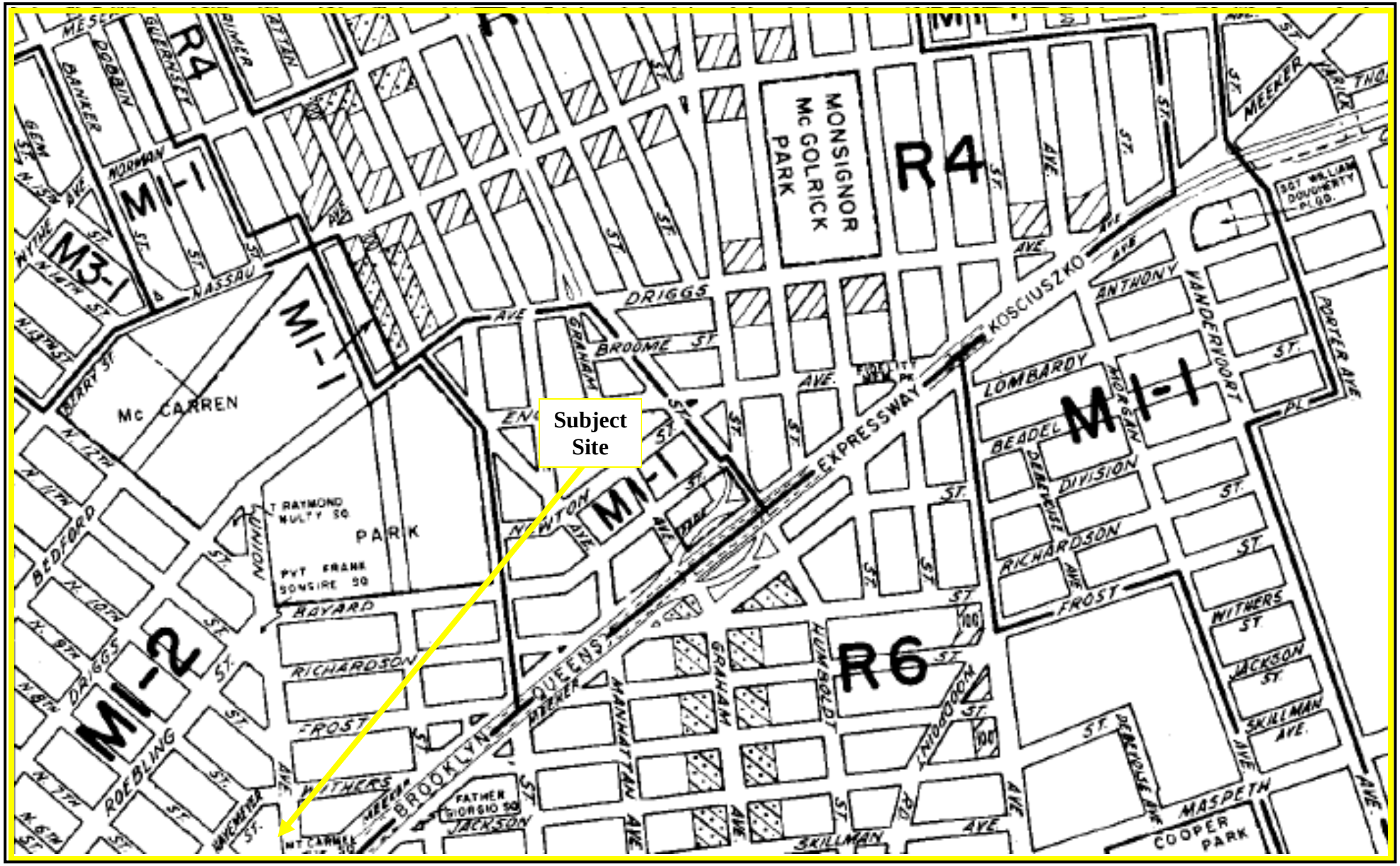
EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870

# FIGURE 4A – ZONING MAP

503-515 UNION AVENUE
BROOKLYN, NEW YORK 11211

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2315 LOT 21)

EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870




# FIGURE 4B – HISTORIC ZONING MAP

503-515 UNION AVENUE
BROOKLYN, NEW YORK 11211

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2315 LOT 21)

EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870

# APPENDIX A

# SITE PHOTOGRAPHS

Photo 1 - View of the front of the Site building.

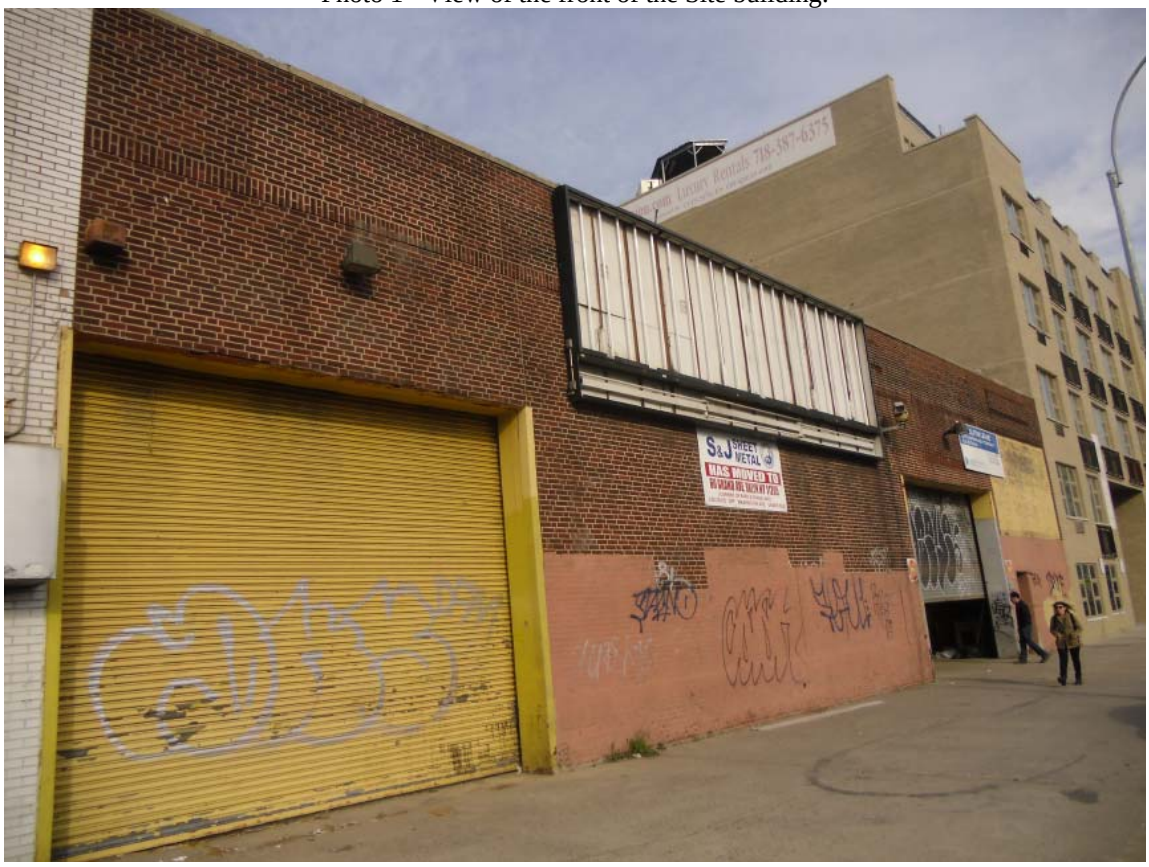



Photo 2 – View of the warehouse building.

Photo 3 – View of the front of the two 2-story buildings.

Photo 4 – View of the roof in the warehouse building.

Photo 5 – View of the electric panel for warehouse building.

Photo 6 – View of the gas and water meter for the subject site building.

Photo 7 – View of machinery stored in warehouse building.

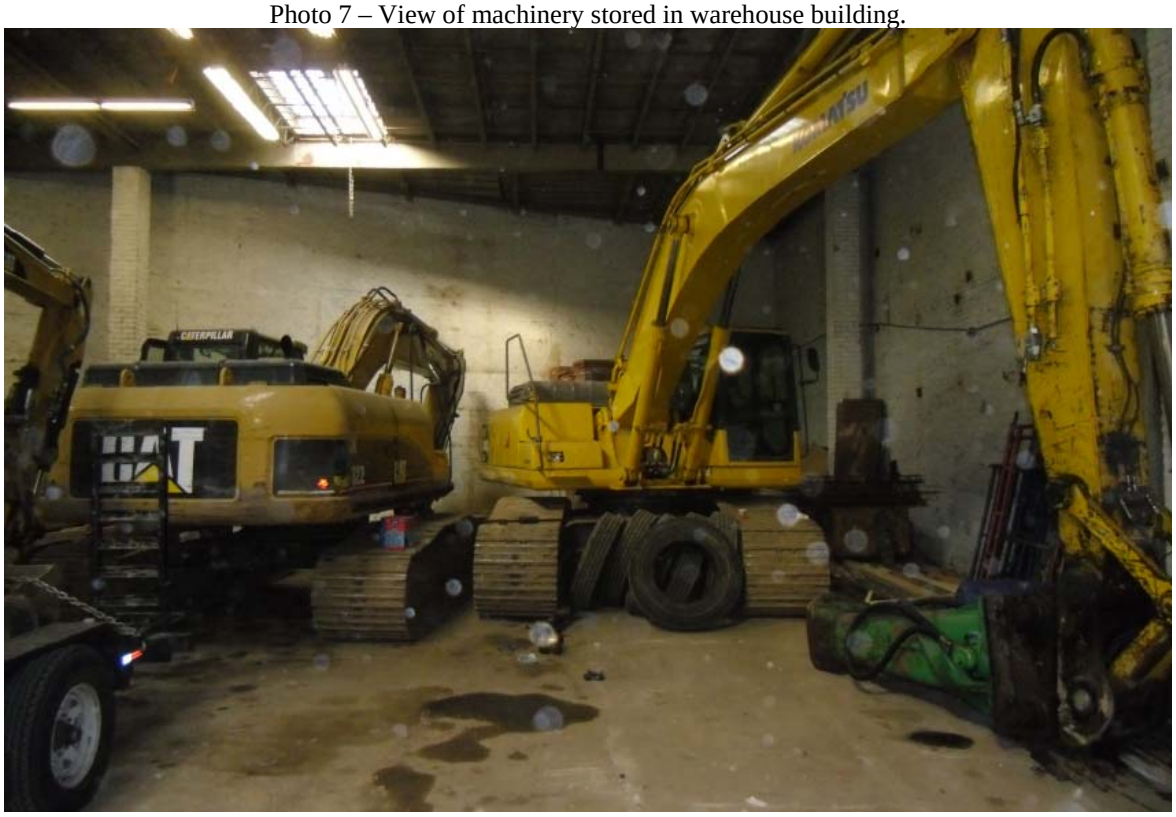



Photo 8 – Additional view of machinery stored in warehouse building.

Photo 9 – View of construction equipment being stored in the warehouse building.

Photo 10 – Additional view of construction equipment stored in the warehouse building.

Photo 11 – View of acetylene and oxygen tanks being used in the warehouse building.

Photo 12 – View of metal cutting fluid being used in the warehouse building.

Photo 13 – View of epoxy and lacquer thinner being used in the warehouse building.

Photo 14 – View of minor concrete staining from construction equipment in warehouse building.

Photo 15 – View of a doorway in between the warehouse building and 2-story commercial/office building.

Photo 16 – View of the first floor of the middle 2-story building.

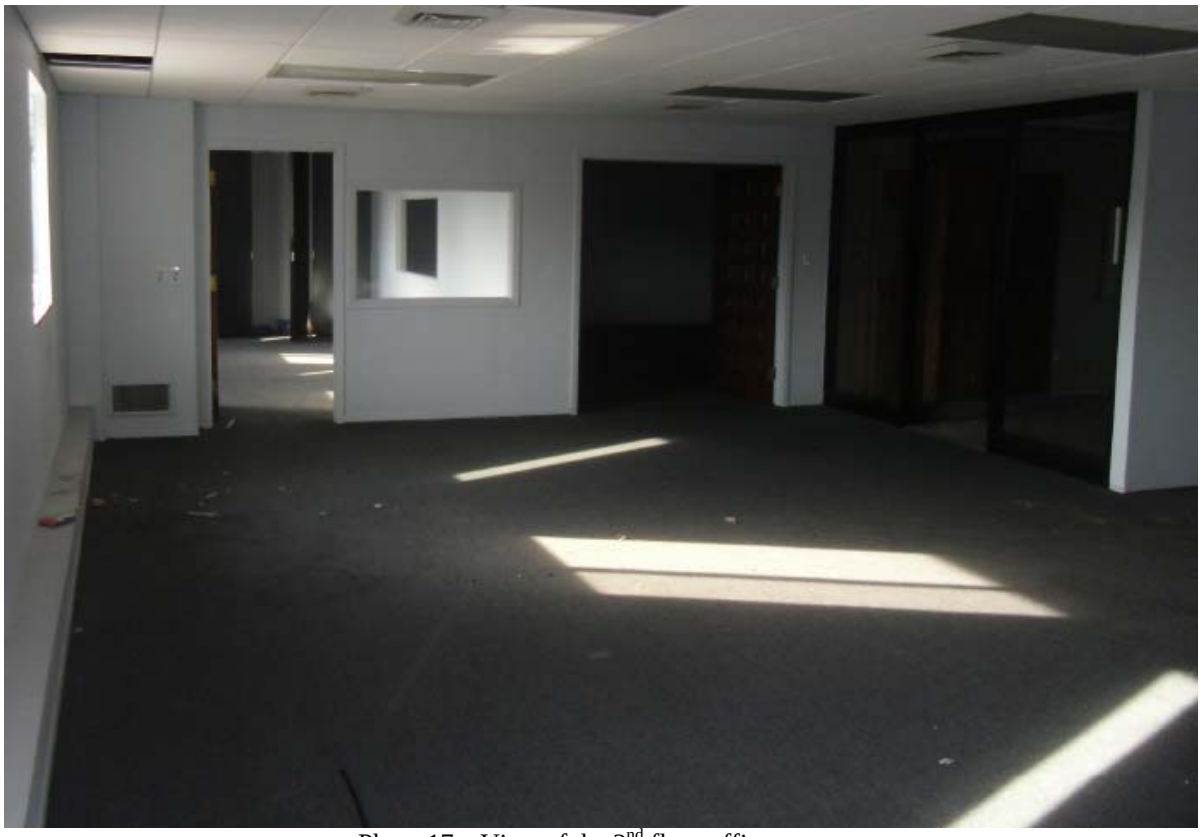


Photo 17 – View of the 2nd floor office space.

Photo 18 – View from the 2nd floor office space into the warehouse building.

Photo 19 – View of a 2nd floor office/conference room.

**Photo** 20 – Additional view of 2nd floor office.

# ADJACENT PROPERTY PHOTOS

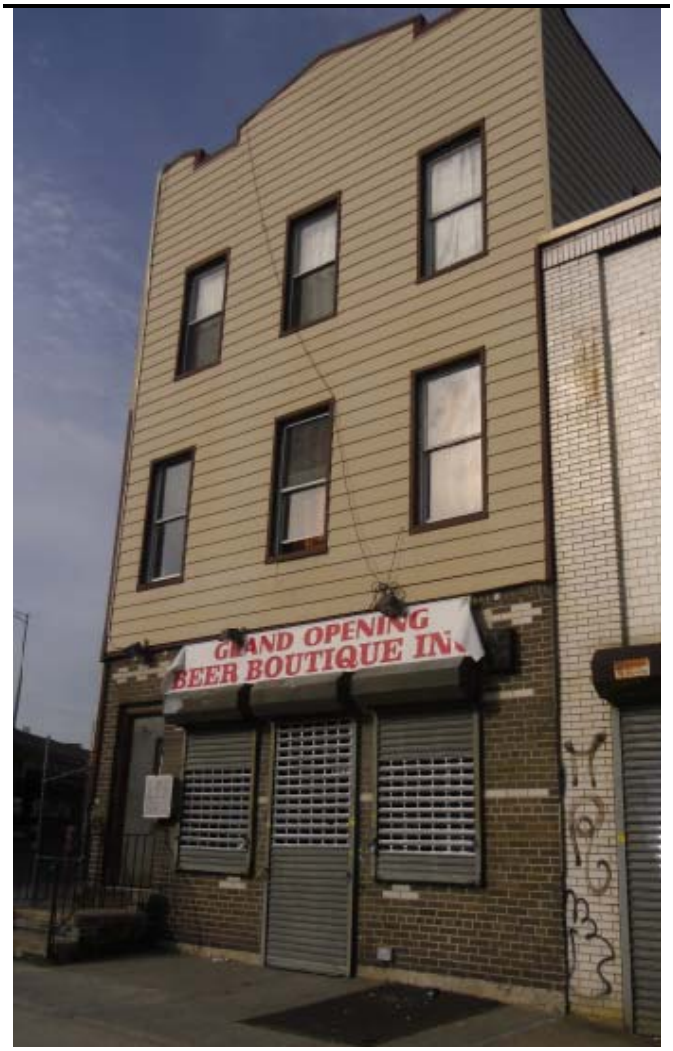



Photo 21 – View of the adjacent property to the south (Lot 26).

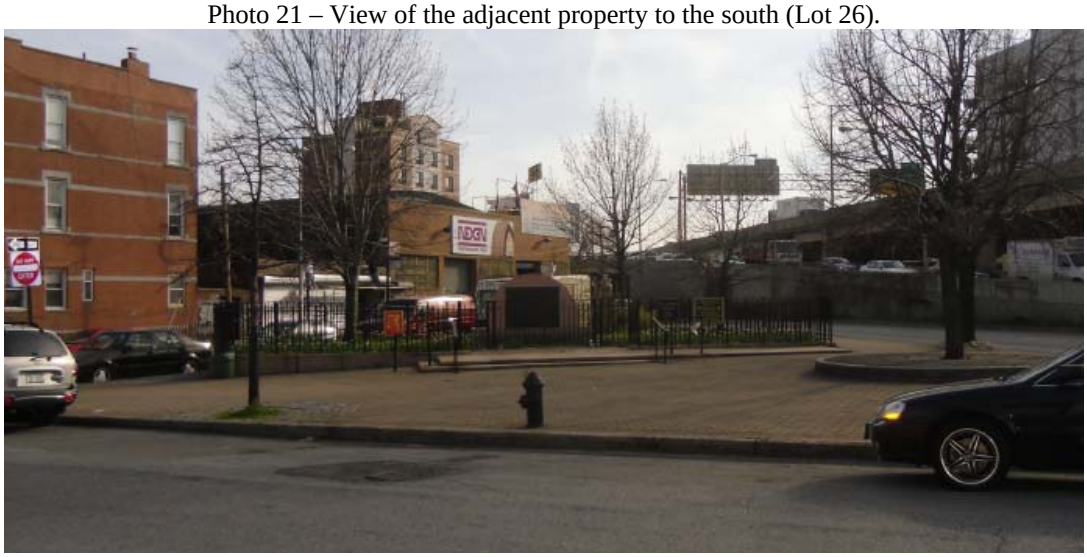


Photo 22 – View of the adjacent property to the east (Mt. Carmel Triangle, a small NYC park).

Photo 23 – View of the adjacent property to the north (Lot 14).

Photo 24 – View of the 2-story convent, the south portion of the adjacent property to the west (Lot 15).

Photo 25 – View of the 2-story rectory, the north portion of the adjacent property to the west (Lot 15).

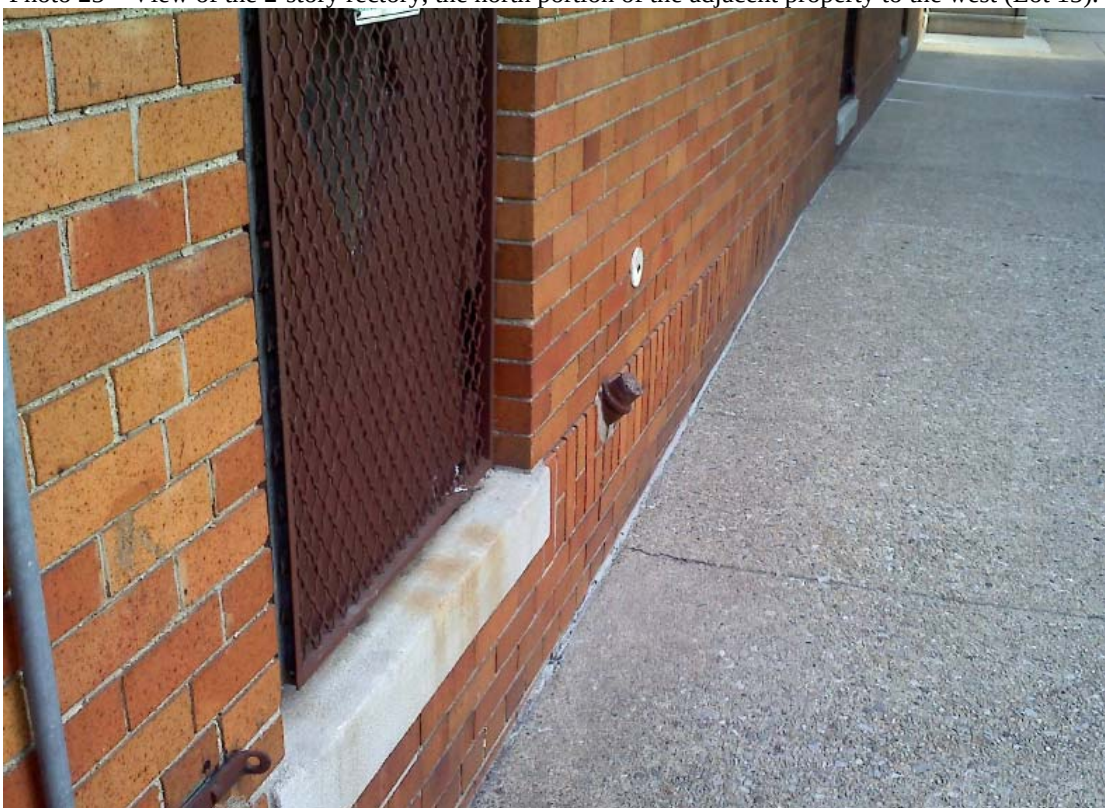


Photo 26 – View of an abandoned fill or vent pipe leading to the basement of the 2-story rectory.

# APPENDIX B

# LOCAL AGENCY INFORMATION

FIRE DEPARTMENT – CITY OF NEW YORK

**Public Records Unit / Tanks Section**

9 MetroTech Center
Brooklyn, New York 11201-3857
(718) 999-2441 or 2442

# Fuel Tank Special Report Request Form

**SECTION A** **CUSTOMER INFORMATION**

Please print the required information below.

Environmental Business Consultants
Name

1808 Middle Country Road, Ridge
Address

New York 11961
State Zip Code

(631)504-6000
Telephone Number

OFFICE USE ONLY

Cashier / Search No.

PRU Staff
Accepted By/Initials:

Searched By:

Total Amount:

**Note**: Please make sure you complete this form and attach all required documents. Enclose a check or money order made payable to the **NYC Fire Department and a stamped self-addressed envelope (with postage).** Mail checks or money orders directly to the address and unit listed above. **DO NOT MAIL CASH**.

**SECTION B** **FUEL TANK REPORT - FEE $10.00 / PER REPORT**

| 505 | Union Avenue | Brooklyn |
|---|---|---|
| House Number | Street Name | Borough |

- [X] THE TOTAL AMOUNT AND SIZE OF EXISTING FUEL OIL / HEATING TANKS
- [X] THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED FUEL OIL / HEATING TANKS
- [X] THE TOTAL AMOUNT AND SIZE OF EXISTING BURIED MOTOR VEHICLE TANKS
- [X] THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED BURIED MOTOR VEHICLE TANKS
- [ ] MOST RECENT TANK / PIPING TEST RESULTS
- [ ] HISTORY OF BURIED TANKS LEAKS

Note: Requests will be responded to within 10 business days.

PR3 (July-08)

March 22, 2012

Freedom of Information Officer
New York City Department of Health
125 Worth Street
New York, New York 10013

**Re: Freedom of Information Request**
**505 Union Avenue, Brooklyn, NY 11211**
**Block 2315, Lot 21**

Dear Sir or Madam:

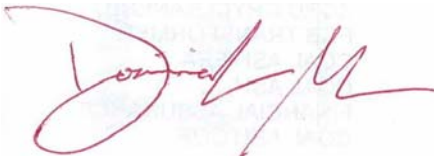
Environmental Business Consultants (EBC) has been retained to prepare a Phase I Environmental Site Assessment for the properties located at the above referenced addresses (Block 2315 Lot 21 in Brooklyn).

We are requesting available copies of environmental files, records, and memoranda concerning the property. This information should include: 1) past and present underground storage tank registration(s); 2) reported spills or releases of hazardous substances; 3) generation, storage, treatment, or disposal of hazardous substances; 4) past or present groundwater, surface water, and soil investigations; 5) environmental permits/violations.

We will gladly pay copying costs.

Please advise if this request can be accommodated in an expedient manner. We would like to schedule an appointment to copy the file/records if this is not possible. Feel free to call with any questions or if additional information is needed to respond to this request.

Very truly yours,



Dominick Mosca
Environmental Scientist


1808 Middle Country Road
Ridge, NY 11961
PHONE 631.504.6000
FAX 631.924.2870
E-MAIL kbrussee@optonline.net

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NYC Department of Buildings

## Property Profile Overview

| | | | |
|---|---|---|---|
| **503 UNION AVENUE** | **BROOKLYN 11211** | | **BIN# 3061860** |
| UNION AVENUE 503 - 515 | | | **Tax Block** : 2315 |
| | **Census Tract** | : 519 | **Tax Lot** : 21 |
| | **Community Board** | : 301 | **Condo** : NO |
| | **Buildings on Lot** | : 2 | **Vacant** : NO |

**View DCP Addresses...** **Browse Block**

**View Zoning Documents** **View Challenge Results** **View Certificates of Occupancy**

| | | | |
|---|---|---|---|
| **Cross Street(s):** | BQE WESTBOUND EXIT 32 B, JACKSON STREET | | |
| **DOB Special Place Name:** | | | |
| **DOB Building Remarks:** | | | |
| **Landmark Status:** | | **Special Status:** | N/A |
| **Local Law:** | NO | **Loft Law:** | NO |
| **SRO Restricted:** | NO | **TA Restricted:** | NO |
| **UB Restricted:** | NO | | |
| **Little 'E' Restricted:** | HAZMAT | **Grandfathered Sign:** | NO |
| **Legal Adult Use:** | NO | **City Owned:** | NO |
| **Additional BINs for Building:** | NONE | | |
| **Additional Designation(s):** | GW - GREENPOINT-WILLIAMSBURG ANTI-HARASSMENT | | |

**Special District:** MX-8 - MIXED USE-8 (GREENPOINT-WILLIAMSBURG, BK)

**This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area.** Click here for more information

**Department of Finance Building Classification:** E9-WAREHOUSE

**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.

| | Total | Open |
|---|---|---|
| **Complaints** | 2 | 0 |
| **Violations-DOB** | 5 | 0 |
| **Violations-ECB (DOB)** | 1 | 1 |
| **Jobs/Filings** | 2 | |
| **ARA / LAA Jobs** | 2 | |
| **Total Jobs** | 4 | |
| **Actions** | 35 | |

**OR Enter Action Type:**

**OR Select from List:** Select...

**AND** Show Actions

**Elevator Records**
**Electrical Applications**
**Permits In-Process / Issued**
**Illuminated Signs Annual Permits**
**Plumbing Inspections**
**Open Plumbing Jobs / Work Types**
**Facades**
**Marquee Annual Permits**
**Boiler Records**
**DEP Boiler Information**
**Crane Information**
**After Hours Variance Permits**

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**

## Actions



**Premises: 503 UNION AVENUE BROOKLYN** **BIN: 3061860 Block: 2315 Lot: 21**

| NUMBER | TYPE | FILE DATE |
|---|---|---|
| **ALT 11807-102336** | ALTERATION | 00/00/1936 |
| **ALT 16690FO-102036** | ALTERATION | 00/00/1936 |
| **ALT 2019-503-15-062745** | ALTERATION | 00/00/1945 |
| **ALT 8-503-15-010361** | ALTERATION | 00/00/1961 |
| **ALT 88-503-15-020282** | ALTERATION | 00/00/1982 |
| **ALTA 2019-45** | | 00/00/1945 |
| **ALTA 8-61** | | 00/00/1961 |
| **BN 2089CANCBYLIMIT-071421** | BUILDING NOTICE | 00/00/1921 |
| **BN 1135-072643** | BUILDING NOTICE | 00/00/1943 |
| **BND 6237BN2089-1941-100542** | | 00/00/1942 |

Next

Enter Action Type: Or Select from List: Select... Refresh

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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## Actions



**Premises: 503 UNION AVENUE BROOKLYN** **BIN: 3061860** **Block: 2315** **Lot: 21**

| NUMBER | | TYPE | FILE DATE |
|---|---|---|---|
| **CERT 114852-072546** | (PDF) | CERTIFICATE OF OCCUPANCY | 00/00/1946 |
| **CERT 114853-072546** | (PDF) | CERTIFICATE OF OCCUPANCY | 00/00/1946 |
| **CERT 114876-072646** | (PDF) | CERTIFICATE OF OCCUPANCY | 00/00/1946 |
| **CERT 176882-092161** | (PDF) | CERTIFICATE OF OCCUPANCY | 00/00/1961 |
| **DEM 208-505-515-040241** | | DEMOLITION | 00/00/1941 |
| **ES 1168-503-15-121450** | | ELECTRIC SIGN | 00/00/1950 |
| **ES 1169-503-15-121450** | | ELECTRIC SIGN | 00/00/1950 |
| **ES 10-88** | | ELECTRIC SIGN | 01/11/1988 |
| **ES 11-88** | | ELECTRIC SIGN | 01/11/1988 |
| **ES 168-89** | | ELECTRIC SIGN | 05/16/1989 |

Previous Next

Enter Action Type: Or Select from List: Select... Refresh

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**NYC Department of Buildings**

## Actions



**Premises: 503 UNION AVENUE BROOKLYN** **BIN: 3061860 Block: 2315 Lot: 21**

| NUMBER | TYPE | FILE DATE |
|---|---|---|
| **ES 169-89** | ELECTRIC SIGN | 05/16/1989 |
| **ISSU EDFOR1YRFROMDATE** | | 00/00/0000 |
| **NB 317-303-15-062145** | NEW BUILDING | 00/00/1945 |
| **NB 685-503-15-092445** | NEW BUILDING | 00/00/1945 |
| **NBNB 685-45** | | 00/00/1945 |
| **NBNB 317-45DOC7627-46** | | 00/00/1946 |
| **NOB 6-050241** | | 00/00/1941 |
| **PDP &D3172** | | 00/00/1945 |
| **PDPD 1774** | | 00/00/1945 |
| **PDPD 1877** | | 00/00/1945 |

Previous Next

Enter Action Type: Or Select from List: Select... Refresh

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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## Actions



**Premises: 503 UNION AVENUE BROOKLYN** **BIN: 3061860** **Block: 2315** **Lot: 21**

| NUMBER | TYPE | FILE DATE |
|---|---|---|
| **PRS 246-503-020146** | PLUMBING REPAIR SLIP | 00/00/1946 |
| **SIGN 4-0540** | | 00/00/1905 |
| **SRSR 2458-41CAIN** | | 00/00/1941 |
| **UNK 9-21-61** | UNKNOWN | 00/00/1921 |
| **US 1147CAINREMOVED5-121340** | | 00/00/1912 |
| **V* 4464/43CAIN-7-05** | DOB VIOLATION - DISMISSED | 00/00/0000 |
| **V* 5565/505-15NASTAS-122360** | DOB VIOLATION - DISMISSED | 00/00/0000 |
| **V* 112588ES01X01** | DOB VIOLATION - DISMISSED | 11/25/1988 |
| **V* 112588ES01X02** | DOB VIOLATION - DISMISSED | 11/25/1988 |
| **V* 092794ES0101W** | DOB VIOLATION - DISMISSED | 09/27/1994 |

Previous Next

Enter Action Type: Or Select from List: Select... Refresh

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## Application Details

**Premises: 503 UNION AVENUE BROOKLYN** **Job No: 320283386**
**BIN: 3061860 Block: 2315 Lot: 21** **Document: 01 OF 1**
**Job Type: A1 - ALTERATION TYPE 1**

| | | | | | |
|---|---|---|---|---|---|
| Document Overview | Items Required | Virtual Job Folder | All Permits | Schedule A | Schedule B |
| Fees Paid | Forms Received | | All Comments | C/O Summary | Plumbing Inspections |
| Crane Information | Plan Examination | | | C/O Preview | |
| After Hours Variance Permits | | | | | |

**Development Challenge Process is pending Zoning Approval. For any issues, please contact the relevant borough office.**

---------- * OBJECTIONS SELF CERTIFIED * ----------

**Last Action:** PLAN EXAM - DISAPPROVED 04/11/2011 (J)

**Pre-Filed:** 03/08/2011 **Building Type:** Other **Estimated Total Cost:** $780,000.00
**Date Filed:** 03/08/2011 **Fee Structure:** STANDARD **Filing Method:** E-FILED
**Review is requested under Building Code:** 1968

Job Description Comments

**1 Location Information (Filed At)**

**House No(s):** 505 **Street Name:** UNION AVE
**Borough:** Brooklyn **Block:** 2315 **Lot:** 21 **BIN:** 3061860 **CB No:** 301
**Work on Floor(s):** ROF 001 thru 005 **Apt/Condo No(s):**

**2 Applicant of Record Information**

**Name:** LEONID KRUPNIK
**Business Name:** LEONID KRUPNIK P.E **Business Phone:** 212-393-9679
**Business Address:** 139 FULTON STREET NEW YORK NY 10038 **Business Fax:**
**E-Mail:** **Mobile Telephone:**
**License Number:** 021282
**Applicant Type:** ☒ P.E. ☐ R.A ☐ Sign Hanger ☐ Other

**Directive 14 Applicant**
Not Applicable
**Previous Applicant of Record**
Not Applicable

**3 Filing Representative**

**Name:** NATHAN HERMAN
**Business Name:** BAC GROUP LTD. **Business Phone:** 718-599-1559
**Business Address:** 366 BROADWAY BROOKLYN NY 11211 **Business Fax:** 718-599-1865
**E-Mail:** BACEXP@AOL.COM **Mobile Telephone:**
**Registration Number:**

**4 Filing Status**
Click Here to View

**5 Job Types**

☒ **Alteration Type 1** ☐ **New Building**
- ☒ Change in Exits/Egress
- ☒ Change in Number of Stories ☐ **Alteration Type 2** ☐ **Full Demolition**
- ☒ Change in Number of Dwelling Units ☐ **Alteration Type 3** ☐ **Subdivision: Improved**
- ☐ Change in Room Count / Dwelling Units ☐ **Sign** ☐ **Subdivision: Condo**
- ☒ Change in Occupancy / Use
- ☐ Change inconsistent with current Cert. of Occup.

☐ **Alteration Type 1, OT "No Work"** **Directive 14 acceptance requested?** ☐ Yes ☒ No

**6 Work Types**

☐ **BL - Boiler** ☐ **FA - Fire Alarm** ☐ **FB - Fuel Burning** ☐ **FS - Fuel Storage**

☐ **FP - Fire Suppression** ☒ **MH - Mechanical** ☒ **PL - Plumbing** ☐ **SD - Standpipe**
☐ **SP - Sprinkler** ☐ **EQ - Construction Equipment** ☒ **CC - Curb Cut**
☒ **OT -** GEN. CONSTR

**7 Plans/Construction Documents Submitted**

**Plans Page Count:** Not Provided

**8 Additional Information**

**Enlargement proposed?**

☐ No ☒ Yes ☐ Horizontal ☒ Vertical

**Additional Construction Floor area:** 25,488 sq.ft.

**9 Additional Considerations, Limitations or Restrictions**

| Yes | No | | |
|---|---|---|---|
| ☐ | N | **Structural peer review required per BC §1627** | **Peer Reviewer License No.(P.E.):** |
| ☐ | N | **Filed to Comply with Local Law** | **Local Law No./Year:** |
| ☐ | N | **Other, Specify:** | |
| ☐ | N | **Restrictive Declaration / Easement** | |
| Y | ☐ | **Zoning Exhibit Record (I,II,III,etc)** | |
| | | **CRFN No.:** 2011000333892 2011000333891 | |
| ☐ | N | **Landmark** | |
| ☐ | N | **Filed to Address Violation(s)** | |
| ☐ | N | **Legalization** | |
| Y | ☐ | **"Little E" Hazmat Site** | |
| ☐ | N | **Unmapped Street** | |
| ☐ | N | **Adult Establishment** | |
| ☐ | N | **Compensated Development (Inclusionary Housing)** | |
| ☐ | N | **Low Income Housing (Inclusionary Housing)** | |
| ☐ | N | **Single Room Occupancy (SRO) Multiple Dwelling** | |
| ☐ | N | **Filing includes Lot Merger / Reapportionment (If Yes,17)** | |
| ☐ | N | **Includes permanent removal of standpipe, sprinkler or fire suppression related systems** | |
| Y | ☐ | **Work includes partial demolition as defined in AC §28-101.5** | |
| Y | ☐ | **Structural Stability affected by proposed work** | |
| ☐ | N | **Work includes lighting fixture and/or controls, installation or replacement. [§ECC 404 and 505]** | |
| ☐ | N | **Site Safety Job / Project** | |

| Yes | No | |
|---|---|---|
| ☐ | N | **Included in LMCCC** |
| ☐ | N | **Infill Zoning** |
| ☐ | N | **Loft Board** |
| Y | ☐ | **Quality Housing** |

**BSA Calendar No.(s):**

**CPC Calendar No.(s):**

**10 NYCECC Compliance** ***New York City Energy Conservation Code*** **(Applicant Statement)**

☒ **To the best of my knowledge, belief and professional judgment, this application is in compliance with the NYCECC.**

☐ **Energy analysis is on another job number:**

| Yes | No | |
|---|---|---|
| ☐ | ☐ | **This application is, or is part of, a project that utilizes trade-offs among different major systems** |
| ☐ | ☐ | **This application utilizes trade-offs within a single major system** |

☐ **To the best of my knowledge, belief and professional judgment, all work under this application is exempt from the NYCECC in accordance with one of the following:**

☐ **The work is an alteration of State or National historic building.**

☐ **The scope of work is entirely in a low-energy building and is limited to the building envelope.**

☐ **The scope of work does not affect the energy use of the building.**

☐ **This is a post-approval amendment and exempt under a prior edition of the energy code.**

**11 Job Description**

CONVERTING 1 STORY AND MEZZ COMMERCIAL BUILDING INTO MIXED USE COOMERCIAL/RESIDENTIAL, ADDING FLOORS 2-5 PL AND PARTITIONS AS PER PLANS.

**Related BIS Job Numbers:**

**Primary application Job Number:**

**12 Zoning Characteristics**

**District(s):** M1-2/R6 - LIGHT MANUFACTURING DISTRICT (SPECIAL MIXED USE DISTRICT)

**Overlay(s):**

**Special District(s):** MX-8 - MIXED USE-8 (GREENPOINT-WILLIAMSBURG, BK)

**Map No.:** 13a **Street legal width (ft.):** 80 **Street status:** ☒ Public ☐ Private

**Zoning lot includes the following tax lots:** Not Provided

| Proposed: Use | Zoning Area (sq.ft.) | District | FAR |
|---|---|---|---|
| COMMERCIAL | 2,717 | M1-2/R6 | 0.26 |
| RESIDENTIAL | 27,989 | M1-2/R6 | 2.70 |
| **Proposed Totals:** | 30,706 | -- | 2.96 |
| **Existing Total:** | 13,511 | -- | -- |

**Proposed Lot Details:** **Lot Type:** ☐ Corner ☒ Interior ☐ Through

**Lot Coverage (%):** 65 **Lot Area (sq.ft.):** 10,387 **Lot Width (ft.):** 147

**Proposed Yard Details:** ☐ No Yards **Or**
**Front Yard (ft.):** 0 **Rear Yard (ft.):** 30 **Rear Yard Equivalent (ft.):** 0
**Side Yard 1 (ft.):** 0 **Side Yard 2 (ft.):** 0

**Proposed Other Details:** **Perimeter Wall Height (ft.):** 60
**Enclosed Parking?** ☒ Yes ☐ No **No. of parking spaces:** 25

**13 Building Characteristics**

| | | 2008 Code Designations? |
|---|---|---|
| **Occupancy Classification: Existing:** | COM - COMMERCIAL BUILDINGS - OLD CODE | ☐ Yes ☒ No |
| **Proposed:** | R-2 - RESIDENTIAL: APARTMENT HOUSES | ☒ Yes ☐ No |
| **Construction Classification: Existing:** | I-D: 1 HOUR PROTECTED | ☐ Yes ☒ No |
| **Proposed:** | I-D: 1 HOUR PROTECTED | ☐ Yes ☒ No |
| **Multiple Dwelling Classification: Existing:** | | |
| **Proposed:** | HAEA | |
| **Building Height (ft.): Existing:** | 23 | |
| **Proposed:** | 60 | |
| **Building Stories: Existing:** | 1 | |
| **Proposed:** | 5 | |
| **Dwelling Units: Existing:** | 0 | |
| **Proposed:** | 32 | |

**Building was originally erected pursuant to which Building Code:** ☐ 2008 ☒ 1968 ☐ Prior to 1968
**Building will fully comply with which Code with this Certificate of Occupancy:** ☐ 2008 ☒ 1968 ☐ Prior to 1968
**Mixed use building?** ☒ Yes ☐ No

**14 Fill**
☐ **Not Applicable** ☐ **Off-Site** ☒ **On-Site** ☐ **Under 300 cubic yards**

**15 Construction Equipment**
Not Applicable

**16 Curb Cut Description**
**Size of cut (with splays):** 18 ft. **Distant from nearest corner:** 103 ft. **on street:** MEEKER AVE

**17 Tax Lot Characteristics**
Not Provided

**18 Fire Protection Equipment**

| | Existing Yes | Existing No | Proposed Yes | Proposed No | | Existing Yes | Existing No | Proposed Yes | Proposed No |
|---|---|---|---|---|---|---|---|---|---|
| **Fire Alarm** | ☐ | ☒ | ☐ | ☒ | **Sprinkler** | ☐ | ☒ | ☒ | ☐ |
| **Fire Suppression** | ☐ | ☒ | ☐ | ☒ | **Standpipe** | ☐ | ☒ | ☐ | ☒ |

**19 Open Spaces**
Not Provided

**20 Site Characteristics**

| Yes | No | | Yes | No | |
|---|---|---|---|---|---|
| ☐ | ☒ | **Tidal / Fresh Water Wetlands** | ☒ | ☐ | **Fire District** |
| ☐ | ☒ | **Urban Renewal** | ☐ | ☒ | **Flood Hazard Area** |

**21 Demolition Details**

| Yes | No | |
|---|---|---|
| ☐ | ☒ | **Demolition work affects the exterior building envelope** |

**22 Asbestos Abatement Compliance**
☒ **The scope of work requires related asbestos abatement as defined in the regulations of the NYC Department of Environmental Protection (DEP).**
☐ **The scope of work does not require related asbestos abatement as defined in the regulations of the NYC DEP.**
☐ **The scope of work is exempt from the asbestos requirement as defined in the regulations promulgated by the NYC DEP (15 RCNY 1-23(b)).**

**23 Signs**
Not Applicable

**24 Comments**

**Comments for Document 01**
RESPECTFULLY REQUESTING TO AMEND PW-1.

**25 Applicant's Statements and Signatures** **( See paper form or check Forms Received )**

| Yes | No | |
|---|---|---|
| ☐ | ☐ | **For New Building and Alteration 1 applications filed under the 2008 NYC Building Code only: does this building qualify for high-rise designation?** |

☐ ☐ **Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.**

**26 Owner's Information**

**Name:** BERL JACOBOWITZ
**Relationship to Owner:**
**Business Name:** DAVBEL PROPERTIES LLC
**Business Phone:** 718-625-2000
**Business Address:** 144 SPENCER ST. BROOKLYN, NY 11205
**Business Fax:**
**E-Mail:**
**Owner Type:** CORPORATION
**Non Profit:** ☐ Yes ☒ No

| Yes | No | |
|---|---|---|
| ☐ | ☒ | **Owner's Certification Regarding Occupied Housing (Remain Occupied)** |
| ☐ | ☒ | **Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)** |
| ☐ | ☐ | **Owner DHCR Notification** |
| ☐ | ☒ | **Owner's Certification for Adult Establishment** |
| ☐ | ☐ | **Owner's Certification for Directive 14 (if applicable)** |

**Condo / Co-Op or Corporation Second Officer**

**Name:** BERL JACOBOWITZ
**Title:** MEMBER
**Business Name:** DAVBEL PROPERTIES LLC
**Business Phone:** 718-625-2000
**Business Address:** 144 SPENCER STREET BROOKLYN NY 11205
**Business Fax:**
**E-Mail:**

**Metes and Bounds**

To view metes and bounds, see the Plot Diagram (form PD-1). A scanned image may be available here.

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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.

# DEPARTMENT OF HOUSING AND BUILDINGS

BOROUGH OF BROOKLYN, CITY OF NEW YORK

No. [illegible]

Date JUL 25 1946

## CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C26-181.0 to C26-187.0 inclusive, Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No.

To the owner or owners of the building or premises:

THIS CERTIFIES that the new [illegible] building—premises located at [illegible] Union Avenue, West Side, [illegible] South of Vienna Street.

Block [illegible] Lot [illegible]

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

[illegible] NO [illegible]/1945

Construction classification— BRICK

Occupancy classification— LUMBER SHED

Height 1 stories, [illegible] feet.

Date of completion— OCMST. 7/24/46 PLMB. 5/12/46

Located in UNRESTRICTED Use District.

Area _____ Height Zone at time of issuance of permit

This certificate is issued subject to the limitations hereinafter specified and to the following resolution of the Board of Standards and Appeals: (Calendar number if in district here)

### PERMISSIBLE USE AND OCCUPANCY

| Floor | Live Loads Lbs. per Sq. Ft. | Persons Accommodated Male | Female | Total | Use |
|---|---|---|---|---|---|
| [illegible] | 250 | [illegible] | — | [illegible] | Lumber Shed. |
| TOTAL: | | | | | LUMBER SHED. |

Borough Superintendent.

**NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE S**
**BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT**

Unless an approval for the same has been obtained from the Borough Superintendent, no cha
rearrangement in the structural parts of the building, or affecting the light and ventilation of any part t
or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increas
height shall be made; nor shall the building be moved from one location or position to another; nor shall
be the reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is de

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses
construction in any story shall not exceed the live loads specified on reverse side; the number of persons of
sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of p
in any story exceed the specified total; and the use to which any story may be put shall be restricted to the
by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners or any other person or persons in pos
or control of the building, or any part thereof, from obtaining such other permits, licenses, or approvals
be prescribed by law for the uses or purposes for which the building is designed or intended; nor from ob
the special certificates required for the use and operation of elevators; nor from the installation of fire
systems where required by law; nor from complying with any lawful order for additional fire exting
appliances under the discretionary powers of the fire commissioner; nor from complying with any lawfu
issued with the object of maintaining the building in a safe or lawful condition; nor from complying wi
authorized direction to remove encroachments into a public highway or other public place, whether attac
or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building sh
on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to
provisions and conditions applying to a final or permanent certificate; it is not applicable to any building und
jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be re
by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly in
and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as no
the reverse side, and that on information and belief, since that date there has been no alteration or con
to a use that changed its classification as defined in the Building Code, or that would necessitate compliance
some special requirement or with the State Labor Law or any other law or ordinance; that there are no
of violations or orders pending in the Department of Housing and Buildings at this time; that Section
of the New York City Charter has been complied with as certified by a report of the Fire Commissioner
Borough Superintendent, and that, so long as the building is not altered, except by permission of the B
Superintendent, the existing use and occupancy may be continued.

"§ 646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, p
premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous subs
articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire exting
equipment are required by law to be or are installed, until the fire commissioner has tested and inspected a
certified his approval in writing of the installation of such containers, systems or equipment to the B
Superintendent of the borough in which the installation has been made. Such approval shall be recor
the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy.

# DEPARTMENT OF HOUSING AND BUILDINGS

BOROUGH OF BROOKLYN, CITY OF NEW YORK

No. [illegible]6

Date [illegible]

# CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C26-181.0 to C26-187.0 inclusive, Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No.

To the owner or owners of the building or premises:

THIS CERTIFIES that the new altered building—premises located at

503/515 Union Avenue, West Side, 225' 0½" South of Withers Street. Block 2515 Lot 21

conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

Alt. No.— ALT. 2019/46 Construction classification— BRICK

Occupancy classification— OFFICES Height 1 stories, 15 feet.

Date of completion— CONST. 7/10/46 PLMB. 7/25/46 Located in UNRESTRICTED Use District.

Area Height Zone at time of issuance of permit

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: (Insert section to be inserted here)

## PERMISSIBLE USE AND OCCUPANCY

| Floor | Live Loads Lbs. per Sq. Ft. | Persons Accommodated Male | Female | Total | Use |
|---|---|---|---|---|---|
| GROUND | | 2 | 1 | 3 | Offices. |
| TOTAL: | | | | 3 | OFFICES. |

Benjamin Saltzman

Borough Superintendent.

DEPARTMENT OF HOUSING AND BUILDINGS

BOROUGH OF CITY OF NEW YORK

No.

Date

# CERTIFICATE OF OCCUPANCY

**NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE S BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT**

Unless an approval for the same has been obtained from the Borough Superintendent, no cha rearrangement in the structural parts of the building, or affecting the light and ventilation of any part th or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increas height shall be made; nor shall the building be moved from one location or position to another; nor shall be any reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is ce

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses construction in any story shall not exceed the live loads specified on reverse side; the number of persons of sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of p in any story exceed the specified total; and the use to which any story may be put shall be restricted to the by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners or any other person or persons in pos or control of the building, or any part thereof, from obtaining such other permits, licenses or approvals be prescribed by law for the uses or purposes for which the building is designed or intended; nor from ob the special certificates required for the use and operation of elevators; nor from the installation of fire systems where required by law; nor from complying with any lawful order for additional fire extingu appliances under the discretionary powers of the fire commissioner; nor from complying with any lawful issued with the object of maintaining the building in a safe or lawful condition; nor from complying wi authorized direction to remove encroachments into a public highway or other public place, whether attac or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building ind on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to provisions and conditions applying to a final or permanent certificate; it is not applicable to any building und jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be re by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly ins and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as no the reverse side, and that on information and belief, since that date there has been no alteration or conv to a use that changed its classification as defined in the Building Code, or that would necessitate compliance some special requirement or with the State Labor Law or any other law or ordinance; that there are no of violations or orders pending in the Department of Housing and Buildings at this time; that Section of the New York City Charter has been complied with as certified by a report of the Fire Commissioner Borough Superintendent, and that, so long as the building is not altered, except by permission of the Bo Superintendent, the existing use and occupancy may be continued.

"§ 646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, pl premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous subs articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire extingu equipment are required by law to be or are installed, until the fire commissioner has tested and inspected a certified his approval in writing of the installation of such containers, systems or equipment to the Bo Superintendent of the borough in which the installation has been made. Such approval shall be record the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy.

Form 56-155M-705277(60) 114

# DEPARTMENT OF BUILDINGS

ck BOROUGH OF Brooklyn, THE CITY OF NEW YORK

No. 482

Date

# CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C26-181.0 to C26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No.

To the owner or owners of the building or premises:

THIS CERTIFIES that the ~~new~~—altered—~~existing~~—building—premises located at

503-515 Union Avenue, west side 223'1½" South of Withers Street

Block 2315 Lot 21

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

~~NEW~~ Alt. No.— 8-1961 Construction classification— fireproof

Occupancy classification— See occupancy below Height 1 & Balcony stories, 20 feet.

Date of completion— const. 9-13-61 , Located in unrestricted Use District.

B Area plumb. 9-13-61 , Height Zone at time of issuance of permit

**This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals:** (Calendar numbers to be inserted here)

## PERMISSIBLE USE AND OCCUPANCY

| STORY | LIVE LOADS Lbs. per Sq. Ft. | PERSONS ACCOMMODATED MALE | FEMALE | TOTAL | USE |
|---|---|---|---|---|---|
| First | on ground | 5 | - | 5 | storage, offices, display sales of lumber and building products, mechanical cutting of lumber. Loading and unloading. |
| balcony | 50 | 2 | 3 | 5 | offices |
| | 120 | - | - | - | storage |

TOTAL:- AS STATED ABOVE

SUPERSEDED BY C.O. # above

Borough Superintendent

CERTIFICATE WILL BE NULL AND VOID IF ALTERED IN ANY MANNER OR ADDITIONS ARE MADE THERETO.

(Page 1)

## NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

Unless an approval for the same has been obtained from the Borough Superintendent, no change or rearrangement in the structural parts of the building, or affecting the light and ventilation of any part thereof, or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increasing in height shall be made; nor shall the building be moved from one location or position to another; nor shall there be any reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses in the construction in any story shall not exceed the live loads specified on reverse side; the number of persons of either sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of persons in any story exceed the specified total; and the use to which any story may be put shall be restricted to that fixed by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners or any other person or persons in possession or control of the building, or any part thereof from obtaining such other permits, licenses or approvals as may be prescribed by law for the uses or purposes for which the building is designed or intended; nor from obtaining the special certificates required for the use and operation of elevators; nor from the installation of fire alarm systems where required by law; nor from complying with any lawful order for additional fire extinguishing appliances under the discretionary powers of the fire commissioner; nor from complying with any lawful order issued with the object of maintaining the building in a safe or lawful condition; nor from complying with any authorized direction to remove encroachments into a public highway or other public place, whether attached to or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building indicated on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to all the provisions and conditions applying to a final or permanent certificate; it is not applicable to any building under the jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be replaced by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly inspected and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as noted on the reverse side, and that on information and belief, since that date there has been no alteration or conversion to a use that changed its classification as defined in the Building Code, or that would necessitate compliance with some special requirement or with the State Labor Law or any other law or ordinance; that there are no notices of violations or orders pending in the Department of Buildings at this time; that Section 646F of the New York City Charter has been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent, and that, so long as the building is not altered, except by permission of the Borough Superintendent, the existing use and occupancy may be continued.

"§ 646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, place or premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous substances, articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire extinguishing equipment are required by law to be or are installed, until the fire commissioner has tested and inspected and has certified his approval in writing of the installation of such containers, systems or equipment to the Borough Superintendent of the borough in which the installation has been made. Such approval shall be recorded on the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy.

**New York City Department of Finance**
**Office of the City Register**

HELP

[Click help for additional instructions]
Selecting a help option will open new window

***Current Search Criteria:***

**Borough:** BROOKLYN
**Block:** 2315
**Lot:** 21
**Date Range:**
**Document Class:** All Document Classes

# Search Results By Parcel Identifier

Records 1 - 51 << previous next >> Max Rows 99 [Search Options ] [New BBL Search] [Edit Current Search] [View Tax Map] [**Print Index**]

| View | Reel/Pg/File | CRFN | Lot | Partial | Recorded / Filed | Document Type | Pages | Party1 | Party2 | Party 3/ Other | More Party 1/2 Names | Corrected/ Remarks | Doc Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DET IMG | | 2011000333892 | 21 | ENTIRE LOT | 9/21/2011 11:19:44 AM | ZONING LOT DESCRIPTION | 4 | DAVBEL PROPERTIES, LLC | | | | | 0 |
| DET IMG | | 2011000333891 | 21 | ENTIRE LOT | 9/21/2011 11:19:43 AM | CERTIFICATE | 4 | RIDGE ABSTRACT CORP. | | | | | 0 |
| DET IMG | | 2007000273592 | 21 | ENTIRE LOT | 5/24/2007 5:18:16 PM | SATISFACTION OF MORTGAGE | 31 | ROSE REALTY ASSOCIATES, LLC | KENTROD HOLDINGS LLC | | | | 0 |
| DET IMG | | 2007000243118 | 21 | ENTIRE LOT | 5/9/2007 3:06:34 PM | BOTH RPTT AND RETT | 2 | 18 PROPERTIES ACQUISITION LLC | DYR HOLDINGS, LLC | | | | 4,039,440 |
| DET IMG | 5997/2396 | | 21 | ENTIRE LOT | 1/2/2003 | ASSIGNMENT, MORTGAGE | 5 | PRIMARY CAPITAL RESOURCES INC | KENTROD HOLDINGS LLC | | | | 0 |
| DET IMG | 5997/2327 | | 21 | ENTIRE LOT | 1/2/2003 | DEED | 5 | 18 PROPERTIES ACQUISITION LLC | 503-515 UNION/BKLYNLLC | | | | 0 |
| DET IMG | 02PK09605 | | 21 | ENTIRE LOT | 11/18/2002 | UCC3 CONTINUATION | 3 | ROSE REALTY ASSOCIATES, LLC | CAPMARK SERVICES,LP,IN TRUST FOR L.B.N.A.AS | | ✓ | | 0 |
| DET IMG | 02PK09604 | | 21 | ENTIRE LOT | 11/18/2002 | UCC3 AMENDMENT | 2 | ROSE REALTY ASSOCIATES, LLC | CAPMARK SERVICES,LP,IN TRUST FOR L.B.N.A.AS | | ✓ | | 0 |
| DET IMG | 5758/943 | | 21 | ENTIRE LOT | 8/16/2002 | TAX LIEN SALE CERTIFICATE | 33 | CITY OF NEW YORK | BANK OF NEW YORK | | | | 0 |
| DET IMG | 5681/2430 | | 21 | ENTIRE LOT | 6/20/2002 | TAX LIEN SALE CERTIFICATE | 34 | CITY OF NEW YORK | BANK OF NEW YORK | | | | 0 |
| DET IMG | 4765/1903 | | 21 | ENTIRE LOT | 2/14/2000 | ASSIGNMENT, MORTGAGE | 24 | NEW YORK URBAN SERVICING INC | LASALLE NATIONAL BANK | | | | 0 |
| DET IMG | 4765/1879 | | 21 | ENTIRE LOT | 2/14/2000 | ASSIGNMENT, MORTGAGE | 24 | NEW YORK URBAN SERVICING CO INC | LASALLE NATIONAL BANK | | | | 0 |
| DET IMG | 4281/2429 | | 21 | ENTIRE LOT | 9/22/1998 | RELEASE | 3 | CANAL DOOR AND WINDOW CORPORATION | MATARESE, JOSEPH M | | ✓ | | 0 |
| DET IMG | 4220/1901 | | 21 | ENTIRE LOT | 6/15/1998 | MORTGAGE | 16 | MATARESE, JOSEPH M | PRIMARY CAPITAL RESOURCES INC | | ✓ | | 300,000 |
| DET IMG | 4220/1898 | | 21 | ENTIRE LOT | 6/15/1998 | POWER OF ATTORNEY | 3 | MATARESE, MICHAEL J | MATARESE, JOSEPH M | | | | 0 |
| DET IMG | 4170/2163 | | 21 | ENTIRE LOT | 4/16/1998 | DEED | 4 | MATARESE, JOSEPH M | ROSE REALTY ASSOCIATES, LLC | | ✓ | | 0 |
| DET IMG | 4163/2362 | | 21 | ENTIRE LOT | 4/8/1998 | MORTGAGE | 29 | ROSE REALTY ASSOCIATES LLC | NEW YORK URBAN SERVICING CO INC | | | | 767,187 |
| DET IMG | 4163/2330 | | 21 | ENTIRE LOT | 4/8/1998 | ASSIGNMENT, MORTGAGE | 34 | ROSE REALTY ASSOCIATES LLC | NEW YORK URBAN SERVICING CO INC | | | | 0 |
| DET IMG | 4163/2316 | | 21 | ENTIRE LOT | 4/8/1998 | ASSIGNMENT, MORTGAGE | 14 | ROSENTHAL & ROSENTHAL INC | NEW YORK URBAN SERVICING CO INC | | | | 0 |
| DET IMG | 4163/2310 | | 21 | ENTIRE LOT | 4/8/1998 | ASSIGNMENT, MORTGAGE | 7 | PRIMARY CAPITAL RESOURCES INC | NEW YORK URBAN SERVICING CO INC | | | | 0 |
| DET IMG | 4163/2204 | | 21 | ENTIRE LOT | 4/8/1998 | AGREEMENT | 95 | ROSE REALTY ASSOCIATES LLC | NEW YORK URBAN SERVICING CO INC | | | | 0 |
| DET IMG | 4163/2199 | | 21 | ENTIRE LOT | 4/8/1998 | SUNDRY AGREEMENT | 6 | ROSENTHAL & ROSENTHAL INC | | | | | 0 |
| DET IMG | 4156/65 | | 21 | ENTIRE LOT | 3/30/1998 | RELEASE | 5 | CANAL DOOR AND WINDOW CORPORATION | MATARESE, JOSEPH M | | ✓ | | 0 |
| DET IMG | 98PK02719 | | 21 | ENTIRE LOT | 2/26/1998 | INITIAL UCC1 | 29 | ROSE REALTY ASSOCIATES, LLC | NEW YORK URBAN SERVICING CO. , INC. | | | | 0 |
| DET IMG | 98TK00462 | | 21 | ENTIRE LOT | 2/13/1998 | UCC3 TERMINATION | 1 | MATARESE, MICHAEL J | ROSENTHAL & ROSENTHAL, INC. | | | | 0 |
| DET IMG | 4074/124 | | 21 | ENTIRE LOT | 12/3/1997 | DISCHARGE OF TAX LIEN | 3 | BANK OF NEW YORK | | | | | 0 |
| DET IMG | 3850/1218 | | 21 | ENTIRE LOT | 12/12/1996 | SATISFACTION OF MORTGAGE | 7 | MANDELLA COMPANY | US CAPITAL CORPORATION | | ✓ | | 0 |
| DET IMG | 3850/326 | | 21 | ENTIRE LOT | 12/12/1996 | MORTGAGE | 20 | MATARESE, JOSEPH M | ROSENTHAL & ROSENTHAL INC | | ✓ | | 1,244,500 |
| DET IMG | 3850/322 | | 21 | ENTIRE LOT | 12/12/1996 | SUNDRY AGREEMENT | 4 | CHASE MANHATTAN BANK | | | | | 0 |
| DET IMG | 3850/309 | | 21 | ENTIRE LOT | 12/12/1996 | ASSIGNMENT, MORTGAGE | 13 | CHASE MANHATTAN BANK | ROSENTHAL & ROSENTHAL | | | | 0 |
| DET IMG | 3850/280 | | 21 | ENTIRE LOT | 12/12/1996 | ASSIGNMENT, MORTGAGE | 30 | MATARESE, JOSEPH M | ROSENTHAL & ROSENTHAL INC | | ✓ | | 0 |
| DET IMG | 3850/209 | | 21 | ENTIRE LOT | 12/12/1996 | AGREEMENT | 77 | MATARESE, JOSEPH M | ROSENTHAL & ROSENTHAL INC | | ✓ | | 0 |
| DET IMG | 96PK15318 | | 21 | ENTIRE LOT | 11/26/1996 | INITIAL UCC1 | 23 | MATARESE, JOSEPH M. | ROSENTHAL & ROSENTHAL, INC. | | | | 0 |
| DET IMG | 96PK15317 | | 21 | ENTIRE LOT | 11/26/1996 | INITIAL UCC1 | 22 | MATARESE, MICHAEL J | ROSENTHAL & ROSENTHAL, INC. | | | | 0 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DET | | 3724/1803 | 21 | ENTIRE LOT | 6/12/1996 | TAX LIEN SALE CERTIFICATE | 1 | CITY OF NEW YORK | BANK OF NEW YORK | | ✓ | 0 |
| DET | IMG | 3471/2149 | 21 | ENTIRE LOT | 2/28/1995 | DEED | 2 | MATARESE, JOSEPH M | MATARESE, JOSEPH M | ✓ | | 0 |
| DET | IMG | 3395/1918 | 21 | ENTIRE LOT | 10/12/1994 | SUNDRY AGREEMENT | 2 | MATARESE, JOSEPH M. | | ✓ | | 0 |
| DET | IMG | 3073/18 | 21 | ENTIRE LOT | 7/2/1993 | MORTGAGE | 42 | MANDELLA COMPANY | U S CAPITAL CORPORATION | ✓ | | 1,400,000 |
| DET | IMG | 3068/818 | 21 | ENTIRE LOT | 6/24/1993 | ASSIGNMENT, MORTGAGE | 20 | U S CAPITAL CORP | PLAZA FUNDING INC | | | 0 |
| DET | IMG | 2593/100 | 21 | ENTIRE LOT | 7/30/1990 | RELEASE OF FEDERAL TAX LIEN | 3 | USA INTERNAL REVENUESRV | CERTIFIED PUBLIC SCALE | | | 0 |
| DET | IMG | 2566/2247 | 21 | ENTIRE LOT | 6/8/1990 | LEASE | 3 | MATARESE, JOSEPH M | CANAL DOOR & WINDOWCORP | ✓ | | 0 |
| DET | IMG | 2558/2037 | 21 | ENTIRE LOT | 5/22/1990 | MISCELLANEOUS | 3 | MATARESE RLTY CO | | | | 0 |
| DET | IMG | 2102/1089 | 21 | ENTIRE LOT | 10/6/1987 | LEASE | 3 | MATARESE REALTY CO | GENERAL BUILDING PRODS | | | 0 |
| DET | | 8601/2938 | 21 | ENTIRE LOT | 2/18/1986 | UNIFORM COMMERCIAL CODE 1 | 0 | MATARESE, JOSEPH M | CHEMICAL BANK | ✓ | | 0 |
| DET | IMG | 1768/103 | 21 | ENTIRE LOT | 2/18/1986 | AGREEMENT | 29 | MATARESE, JOSEPH M | CHEMICAL BANK | ✓ | | 0 |
| DET | IMG | 1768/89 | 21 | ENTIRE LOT | 2/18/1986 | MORTGAGE | 14 | MATARESE, JOSEPH M | CHEMICAL BANK | ✓ | | 660,396 |
| DET | | 8201/10629 | 21 | ENTIRE LOT | 11/5/1982 | UNIFORM COMMERCIAL CODE 1 | 0 | MATARESE, JOSEPH M | | ✓ | | 0 |
| DET | IMG | 1349/1070 | 21 | ENTIRE LOT | 11/1/1982 | ASSIGNMENT, MORTGAGE | 14 | MATARESE, JOSEPH M | CHEMICAL BANK | ✓ | | 0 |
| DET | IMG | 1349/1059 | 21 | ENTIRE LOT | 11/1/1982 | MORTGAGE | 11 | MATARESE, JOSEPH M | CHEMICAL BANK | ✓ | | 497,000 |
| DET | IMG | 1287/386 | 21 | ENTIRE LOT | 12/28/1981 | DEED | 2 | DEIUDICIBUS ROSE AS ADMINISTRATRIX | MATARESE JOSEPH M | ✓ | | 0 |
| DET | IMG | 796/1310 | 21 | ENTIRE LOT | 8/13/1975 | DEED | 2 | ALTMAN IRVING | MATARESE FRANK | | | 0 |

Search Options | New Parcel Identifier Search | Edit Current Search | View Tax Map

Standard N.Y.B.T.U. Form 8002 • 9-75 20M Bargain and Sale Deed with Covenant against Grantor's Acts—Individual or Corporation (Single sheet)

**CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.**

REEL 796 PAGE 1310

**THIS INDENTURE,** made the 11th day of August, nineteen hundred and seventy-five

**BETWEEN** IRVING ALTMAN, residing at 1965 South Ocean Drive, Hallendale, Florida,

REAL ESTATE TRANSFER TAX STATE OF NEW YORK
Dept of Taxation & Finance AUG 13 '75 PB
18 15

party of the first part, and

FRANK MATARESE, residing at 431 Metropolitan Avenue, Brooklyn, New York,

party of the second part,

**WITNESSETH,** that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid 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, my undivided one-half (1/2) interest

**ALL** that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at a point onthe westerly side of Union Avenue distant 111 feet northerly from the corner formed by the intersection of the westerly side of Union Avenue with the northerly side of Skillman Avenue, as said Skillman Avenue existed prior to the opening of the Brooklyn-Queens Connecting Highway; running thence westerly at right angles to Union Avenue 50 feet 3/4 of an inch; thence northwesterly 134 feet 7 inches to a point in a line parallel with the first mentioned course which point is distant in said parallel line 100 feet 3/4 of an inch westerly from the westerly side of Union Avenue and which parallel line is drawn from a point in the westerly side of Union Avenue 125 feet northerly from the point of beginning; thence easterly along said parallel line and at right angles to Union Avenue 100 feet 3/4 of an inch to the westerly side of Union Avenue; and thence southerly along the westerly side of Union Avenue 125 feet to the point or place of beginning.

Said premises being known as 503 Union Avenue.

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 covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
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:

Irving Altman
Irving Altman

STATE OF ~~NEW YORK~~ Florida, COUNTY OF Brevard ss:

On the 11th day of August 19 75, before me personally came

IRVING ALTMAN

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that he executed the same.

Martha H. Woods

NOTARY PUBLIC STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES MAY 12, 1977
BONDED THRU GENERAL INS. UNDERWRITERS

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

REEL 796 PAGE 1311

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF ss:

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 before me

COUNTY OF DADE
STATE OF FLORIDA } SS.

№ 29680

I, RICHARD P. BRINKER, Clerk of the Circuit Court of the Eleventh Judicial Circuit in and for the County of Dade, and State of Florida, the same being a Court of Record of the aforesaid County and State, having by law a seal, DO HEREBY CERTIFY that Martha H. Woods by whom the foregoing acknowledgment or proof was taken, and whose name is subscribed thereto, was at the time of taking the same, a Notary Public, residing in said County, duly commissioned and sworn and authorized by the laws of said State, to take the acknowledgment or proof of deeds and other instruments in writing to be recorded in said State, and to administer oaths or affirmations in said County; that I have compared the signature of such Notary Public with a specimen of his signature on file in my office, and verily believe that the signature to the foregoing original Certificate is genuine.

I FURTHER CERTIFY that I have compared the impression or rubber stamp of the seal affixed thereto with a specimen impression or rubber stamp thereof on file in my office, and I verily believe the impression of such seal upon the original Certificate to be genuine.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal this 12 day of August 19 75

RICHARD P. BRINKER
Clerk Circuit Court,

By M. Baker
Deputy Clerk.

DADE COUNTY, FLORIDA

**Bargain and Sale Deed**
WITH COVENANT AGAINST GRANTOR'S ACTS

TITLE NO.

SECTION 8
BLOCK 2315
LOT 21
COUNTY OR TOWN Kings

IRVING ALTMAN

TO

FRANK MATARESE

Recorded At Request of The Title Guarantee Company

RETURN BY MAIL TO:

ARTHUR KAPLAN
310 Madison Avenue
New York, New York

Zip No. 10017

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS
*Distributed by*
TITLE GUARANTEE-NEW YORK
A TICOR COMPANY

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

OFFICE OF CITY REGISTER
KINGS County
RECORDED
Witness my hand
and official seal
CITY REGISTER

12323

JG-15-75 86119

JG-15-75 86120

Standard N.Y.B.T.U. Form 8095A • 3-74-10M—Executor's Deed—Individual or Corporation (Single sheet) REEL 1287 PAGE 386

**CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.**

**THIS INDENTURE,** made the 28th day of December, nineteen hundred and eighty-one

**BETWEEN** ROSE DEIUDICIBUS, residing at 2121 Atlantic Boulevard, Atlantic Beach, New York, as Administratrix with the Will Annexed

of FRANK MATARESE, late of Kings County

who died on the 15th day of October, nineteen hundred and seventy-eight

party of the first part, and JOSEPH M. MATARESE and MICHAEL J. MATARESE both residing at 2121 Atlantic Boulevard, Atlantic Beach, New York

party of the second part,

**WITNESSETH,** that the party of the first part, to whom letters of Administration with Will Annexed were issued by the Surrogate's Court, Kings County, New York on January 19, 1979 and by virtue of the power and authority given in and by said last will and testament, and/or by Article 11 of the Estates, Powers and Trusts Law, and pursuant to the terms of the Last Will and Testament of Frank Matarese dated March 18, 1966

2315
21

does hereby grant and release unto the party of the second part, the distributees 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, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at a point on the westerly side of Union Avenue distant 111 feet northerly from the corner formed by the intersection of the westerly side of Union Avenue with the northerly side of Skillman Avenue, as said Skillman Avenue existed prior to the opening of the Brooklyn-Queens Connecting Highway; running thence westerly at right angles to Union Avenue 50 feet 3/4 of an inch; thence northwesterly 134 feet 7 inches to a point in a line parallel with the first mentioned course which point is distant in said parallel line 100 feet 3/4 of an inch westerly from the westerly side of Union Avenue and which parallel line is drawn from a point in the westerly side of Union Avenue 125 feet northerly from the point of beginning; thence easterly along said parallel line and at right angles to Union Avenue 100 feet 3/4 of an inch to the westerly side of Union Avenue; thence southerly along the westerly side of Union Avenue 125 feet to the point or place of beginning.

Said premises being known as 503 Union Avenue.

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 also all the estate which the said decedent had at the time of decedent's death in said premises, and also the estate therein, which the party of the first part has or has power to convey or dispose of, whether individually, or by virtue of said will or otherwise; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the distributees or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been incumbered in any way whatever, except as aforesaid.
Subject to the trust fund provisions of section thirteen of the Lien Law.
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:

Rose Deiudicibus, Administratrix with the Will Annexed of Frank Matarese, deceased

STATE OF NEW YORK, COUNTY OF Kings ss:

On the 28 day of December 19 81, before me personally came

ROSE DEIUDICIBUS

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that she executed the same.

JOSHUA ROSENBERG
NOTARY PUBLIC, STATE OF NEW YORK
Commission Expires March 30, 1982

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

REEL 1207 PAGE 387

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known, who, being by me duly sworn, did depose and say that he resides at No. ;

that he is the of , 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 h name thereto by like order.

STATE OF NEW YORK, COUNTY OF ss:

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 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 h name as witness thereto

## Executor's Deed

TITLE NO.

ROSE DEIUDICIBUS, Administratrix with the Will Annexed of Frank Matarese, deceased

TO

JOSEPH M. MATARESE and MICHAEL J. MATARESE

SECTION 8
BLOCK 2315
LOT 21
COUNTY OR TOWN Kings
STREET ADDRESS

Recorded At Request of The Title Guarantee Company

RETURN BY MAIL TO:

ARTHUR KAPLAN ,ESQ.
310 MADISON AVENUE
NEW YORK, NEW YORK 10017
Suite 2025
Zip No.

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by
TITLE GUARANTEE-NEW YORK
A TICOR COMPANY

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

1981 DEC 28 PM 2:50

REC. FEE

SEC. 9 20016

REC. 8

OFFICE OF CITY REGISTER
Kings County
RECORDED
Witness my hand and official seal

CITY REGISTER

8137

TRANSFER TAX
KINGS COUNTY

T 691

Standard N.Y.B.T.U. Form 8002; Bargain & sale deed, with covenant against grantor's acts. Ind. or Corp. single sheet

REEL 3471 PG 2191

JULIUS BLUMBERG, INC., LAW BLANK PUBLISHERS

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT – THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

**THIS INDENTURE,** made the day of , nineteen hundred and

**BETWEEN**

JOSEPH M. MATARESE and MICHAEL J. MATARESE, both residing at 2121 Atlantic Boulevard, Atlantic Beach, New York

party of the first part, and

JOSEPH M. MATARESE and MICHAEL J. MATARESE, both residing at 2121 Atlantic Boulevard, Atlantic Beach, New York

party of the second part,

**WITNESSETH,** that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid 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, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at a point on the westerly side of Union Avenue distant 25 feet 9 and 5/8 inches northerly from the corner formed by the intersection of the westerly side of Union Avenue with the northerly side of Skillman Avenue, as said Skillman Avenue existed prior to the opening of the Brooklyn-Queens Connecting Highway; running thence westerly at right angles to Union Avenue 41 feet 3 inches to the center line of the block; thence northwesterly along the center line of the block 158 feet 3 inches to a point in a line parallel with the first mentioned course of which point is distant in said parallel line 100 feet 3/4 of an inch westerly from the westerly side of Union Avenue and which parallel line is drawn from a point in the westerly side of Union Avenue 147 feet northerly from the point of beginning; thence easterly along said parallel line and at right angles to Union Avenue 100 feet 3/4 of an inch to the westerly side of Union Avenue; thence southerly along the westerly side of Union Avenue 147 feet to the point or place of beginning.

Said premises being known as 503 Union Avenue.

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 covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
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:

Joseph M. Matarese
JOSEPH M. MATARESE

Michael J. Matarese
MICHAEL J. MATARESE

11 75T20

REEL 3471 PG 2730 [illegible]

**STATE OF NEW YORK, COUNTY OF** ss:

On the 28th day of February 1995, before me personally came

JOSEPH M. MATARESE and MICHEAL J. MATARESE

to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged that they executed the same.

FRITZ G. JEAN
Notary Public, State of New York
No. 02JE5018217
Qualified in Kings County
Commission Expires Sept. 20, 1995

**STATE OF NEW YORK, COUNTY OF** ss:

On the day of 19 , before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

**STATE OF NEW YORK, COUNTY OF** ss:

On the day of 19 , before me personally came

to me known, who, being by me duly sworn, did depose and say that he resides at No. ;

that he is the

of

, 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 h name thereto by like order.

**STATE OF NEW YORK, COUNTY OF** ss:

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

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 h name as witness thereto.

**Bargain and Sale Deed**

WITH COVENANT AGAINST GRANTOR'S ACTS

TITLE No.

JOSEPH M. MATARESE and
MICHEAL J. MATARESE

TO

MATARESE REALTY COMPANY

SECTION 8
BLOCK 2315
LOT 21
COUNTY OR TOWN Kings
503 Union Avenue

DOC. VER. BY ADDRESS DS

RETURN BY MAIL TO:

FRITZ GERALD JEAN, ESQ.
178 Park Place
Brooklyn, New York
Zip No. 11238

10101

RECEIVED
$
REAL ESTATE
FEB 23 1995
TRANSFER TAX
KINGS
COUNTY
011572

Reserve this space for use of Recording Office.

COUNTY
[illegible] FEB 28 AM 11:10

A-19
-0-1
02255
Y-1

REC. TX
SST $
RPT #

Standard N Y B T U Form 8004 Warranty Deed With Full Covenants Ind or Corp

JULIUS BLUMBERG, INC., PUBLISHER, NYC 10013



**CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.**

**THIS INDENTURE,** made the 22 day of December, nineteen hundred and ninety-seven

**BETWEEN** JOSEPH M. MATARESE and MICHAEL J. MATARESE, d/b/a MATARESE REALTY Co., having an office at 503 Union Avenue, Brooklyn, New York 11211

party of the first part, and ROSE REALTY ASSOCIATES, LLC, a New York limited liability company, having an office at 503 Union Avenue, Brooklyn, New York 11211

party of the second part,

**WITNESSETH,** that the party of the first part, in consideration of ten dollars and other valuable consideration paid 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, lying and being in the

SEE SCHEDULE A ANNEXED HERETO AND MADE A PART HEREOF

Premises known as 503 Union Ave, Brooklyn

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.

AND the party of the first part covenants as follows: that said party of the first part is seized of the said premises in fee simple, and has good right to convey the same; that the party of the second part shall quietly enjoy the said premises; that the said premises are free from incumbrances, except as aforesaid; that the party of the first part will execute or procure any further necessary assurance of the title to said premises; and that said party of the first part will forever warrant the title to said premises.

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:

JOSEPH M. MATARESE

MICHAEL J. MATARESE

EXHIBIT A

Section 8 Block 2315 Lot 21 on the Tax Map of Kings County

503-515 Union Avenue
Brooklyn, New York

ALL that certain plot, piece or parcel of land with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at a point on the westerly side of Union Avenue distant 25 feet 9 and 5/8 inches northerly from the corner formed by the intersection of the westerly side of Union Avenue with the northwesterly side of Brooklyn-Queens Connecting Highway;

RUNNING THENCE westerly at right angles to Union Avenue 41 feet 3 inches to the center line of the block;

THENCE northwesterly along the center line of the block 158 feet 3 inches to a point on a line parallel with the first mentioned course, of which point is distant in said parallel line 100 feet 3/4 inches westerly from the westerly side of Union Avenue;

THENCE easterly along said parallel with line and at right angles to Union Avenue, 100 feet 3/4 of an inch to the westerly side of Union Avenue;

THENCE southerly along the westerly side of Union Avenue, 147 feet to the point or place of BEGINNING.

REEL 4170 PG 2165

STATE OF NEW YORK, COUNTY OF New York ss:

On the 22 day of December 1997, before me personally came Joseph M. Matarese

D/B/A Matarese Realty Co

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that he executed the same.

98

STATE OF NEW YORK, COUNTY OF New York ss:

On the 22 day of December 1997, before me personally came Michael J. Matarese

D/B/A Matarese Realty Co

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that he executed the same.

98

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came to me known, who, being by me duly sworn, did depose and say that he resides at No.

that he is the ;
of

, 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 h name thereto by like order.

STATE OF NEW YORK, COUNTY OF ss:

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 ;

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 h name as witness thereto.

# Warranty Deed

WITH FULL COVENANTS

TITLE NO. 273 706-KH

JOSEPH M. MATARESE
AND
MICHAEL J. MATARESE

TO

ROSE REALTY ASSOCIATES, LLC

SECTION 8
BLOCK 2315
LOT 21
COUNTY OR TOWN KINGS

DOC VER
BY

RECORD AND RETURN BY MAIL TO:

Stuart W. Goldstein, Esq.
Herbert Paul, P.C.
370 Lexington Avenue, Suite 1001
New York, NY

Zip No. 10017

REEL 4170 PG 2165

# CITY REGISTER RECORDING AND ENDORSEMENT PAGE

## - KINGS COUNTY -

(This page forms part of the instrument)

Block(s) 2315

Lot(s) 21

Record & Return to: STUART W GOLDSTEIN ESQ. 370 LEXINGTON AVENUE SUITE 1001 NY NY 10017

Title/Agent Company name: RIDGE ABSTRACT CORP.

Title Company number: 273406KD

OFFICE USE ONLY -- DO NOT WRITE BELOW THIS LINE

THE FOREGOING INSTRUMENT WAS ENDORSED FOR THE RECORD AS FOLLOWS:

Examined by (✓):

City Register Serial Number ➡ 023823

Mtge Tax Serial No.

Mtge Amount $

Taxable Amount $

Exemption (✓) YES ☐ NO ☐

Type: (CIRCLE ONE) [339EE] [255] [OTHER ____]

Dwelling Type: (CIRCLE ONE) [1 to 2] [3] [4 to 6] [OVER 6]

TAX RECEIVED ON ABOVE MORTGAGE ▼

| | |
|---|---|
| County (basic) | $ |
| City (Addl'l) | $ |
| Spec Addl'l | $ |
| TASF | $ |
| MTA | $ |
| NYCTA | $ |
| TOTAL TAX | $ |

Apportionment Mortgage (✓) YES ☐ NO ☐

Joy A. Bobrow, City Register

Indexed By (✓):

Verified By (✓):

Block(s) and Lot(s) verified by (✓):

Address ☐ Tax Map ☐

Extra Block(s) Lot(s)

| | |
|---|---|
| Recording Fee A- | $ 37- |
| Affidavit Fee (C) | $ |
| TP-584/582 Fee (Y) | $ |
| RPTT Fee (R) | $ 2.5- |
| HPD-A ☐ | HPD-C ☐ |

New York State Real Estate Transfer Tax ▼

$

Serial Number ➡ 016005

New York City Real Property Transfer Tax Serial Number ➡ 06486

New York State Gains Tax Serial Number ➡

DEED 0661 LD/TL 5-1 CSHR 31 RECPT 4056 DATE Apr 16-98 TIME 10:53 37.00

RECORDED IN KINGS COUNTY
OFFICE OF THE CITY REGISTER

1998 APR 16 A 10:01

Witness My Hand and Official Seal

Joy A. Bobrow

CITY REGISTER

REEL 5997 PG 2327 REEL 5997 PG 2327

# CITY REGISTER RECORDING AND ENDORSEMENT PAGE

**COUNTY OF** ▶ Kings

THIS PAGE FORMS PART OF THE INSTRUMENT

TOTAL NUMBER OF PAGES IN DOCUMENT INCLUDING THIS PAGE ▶ 4

| Block ▼ | Lots - ONLY IF ENTIRE LOT ▼ | Partial Lots ▼ |
|---|---|---|
| 2315 | 21 | P/O |

Premises ▼: 503-515 Union Ave.

Title/Agent Company Name ▼: Madison Title Agency

Title Company Number ▼: MTA-NY-5816

RECORD & RETURN TO:
NAME ▼: Sukenik, Segal & Graff PC
ADDRESS ▼: 417 5th Avenue 3rd Fl.
CITY ▼: NY STATE ▼: NY ZIP ▼: 10016

NAME & ADDRESS

PARTY 1 ▶ 18 Properties, LLC
ADDITIONAL PARTY 1 ▶ c/o Sukenik, Segal & Graff PC 417 5th Ave. 3rd Fl, N.Y. N.Y. 10016 FOLD
PARTY 2 ▶ 503-515 Union / Brooklyn, LLC
ADDITIONAL PARTY 2 ▶ c/o Sukenik, Segal & Graff PC 417 5th Ave. 3rd Fl. N.Y. N.Y. 10016
CHECK THIS BOX IF THERE ARE MORE THAN 2 OF EITHER PARTY ☐

CITY REGISTER USE ONLY — DO NOT WRITE BELOW THIS LINE

Examined by (✓): X

Mtge Tax Serial No.
Mtge Amount $
Taxable Amount $

Exemption (✓) YES ☐ NO ☐

Type: [1 to 2] [3 SS] [OTHER]

Dwelling Type: [1 to 2] [3] [4 to 6] [over 6]

TAX RECEIVED ON ABOVE MORTGAGE ▼

| | |
|---|---|
| County (basic) | $ |
| City (Addl) | $ |
| Spec Addl | $ |
| TASF | $ |
| MTA | $ |
| NYCTA | $ |
| TOTAL TAX | $ |

Apportionment Mortgage (✓) YES ☐ NO ☐

City Register Serial Number ▶ 000212

Indexed By (✓): CL
Verified By (✓): JC

Block(s) and Lot(s) verified by (✓): R
Address ☒ Tax Map ☐
Extra Block(s) Lot(s)

| | |
|---|---|
| Recording Fee A | $ 52 |
| Affidavit Fee (C) | $ |
| RPTT Fee (R) | $ 25 |
| HPD-A ☐ | HPD-C ☐ |

New York State Real Estate Transfer Tax ▼
$ E

Serial Number ▶ 012347

New York City Real Property Transfer Tax Serial Number ▶ 00068

03 JAN -2 ◀ 4:39

DEED 02 52.00 FOLD

| LO/TL | CSHR RECPT | DATE | TIME |
|---|---|---|---|
| 3-1 | 1 193590 | Jan 2-03 | 11:02 |

RECORDED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK

ORIGINALPG 04/00

44-11-001

Standard N.Y.B.T.U. Form 8003 - Warranty Deed, with Full Covenants—Individual or Corporation
CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 18 day of Nov, Two thousand two
BETWEEN

18 Properties Acquisition LLC, a New York Limited Liability Company with an address at c/o Sukenik, Segal & Graff, P.C., 417 Fifth Avenue, 3rd floor, New York, NY 10016

party of the first part, and

503-515 Union/Brooklyn LLC, a New York Limited Liability Company with an address at c/o Sukenik, Segal & Graff, P.C., 417 Fifth Avenue, 3rd floor, New York, NY 10016

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid 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, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

See Schedule A attached hereto

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.

AND the party of the first part covenants as follows: that said party of the first part is seized of the said premises in fee simple, and has good right to convey the same; that the party of the second part shall quietly enjoy the said premises; that the said premises are free from encumbrances, except as aforesaid; that the party of the first part will execute or procure any further necessary assurance of the title to said premises; and that said party of the first part will forever warrant the title to said premises.
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:

18 Properties Acquisition LLC

By: [signature]
Meyer Chetrit, Member

REL 5997 PG 2328

REL 5997 PG 2328

# OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

**Title No.: MTANY-005816F**

## SCHEDULE A

### LEGAL DESCRIPTION

All that certain Lot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York bounded and described as follows:

BEGINNING at a point on the westerly side of Union Avenue distant 25 feet 9 5/8 inches northerly from the corner formed by the intersection of the westerly side of Union Avenue with the northwesterly side of Brooklyn-Queens Connecting Highway;

RUNNING THENCE westerly at right angles to Union Avenue 41 feet 3 inches to the center line of the block;

THENCE northwesterly along the center line of the block 158 feet 3 inches to a point on a line parallel with the first mentioned course, of which point is distant in said parallel line 100 feet ¾ of an inch westerly from the westerly side of Union Avenue;

THENCE easterly along said parallel with line and at right angles to Union Avenue, 100 feet ¾ of an inch to the westerly side of Union Avenue;

THENCE southerly along the westerly side of Union Avenue, 147 feet to the point or place of BEGINNING.

NOTE: Being District , Section , Block 2315, Lot(s) 21, Tax Map of the Borough of Brooklyn, County of Kings.

NOTE: Lot and Block shown for informational purposes only.

Said Premises being known as 503-515 Union Avenue, Brooklyn, New York

REEL 5997 PG 2329

REEL 5997 PG 2329

Issued by:
**Madison Title Agency, LLC**
**1125 Ocean Avenue Lakewood,NJ 08701**
**Telephone:212-808-9400 Fax:212-808-9420**

REEL 5997 PG 2330

MTA M-5816 F

# CONDUIT AGREEMENT

**AGREEMENT** made as of the 18 day of Nov, 2002, by and between 503-515 UNION/BROOKLYN LLC, a New York Limited Liability company with an address at c/o Sukenik, Segal & Graff, P.C., 417 Fifth Avenue, 3rd floor, New York, NY 10016 ("Principal") and 18 PROPERTIES ACQUISITION LLC, a New York Limited Liability company with an address at c/o Sukenik, Segal and Graff, PC, 417 5th Avenue, 3rd Floor, New York, New York 10016 ("Agent").

REEL 5997 PG 2330

## WITNESSETH:

WHEREAS, 18 PROPERTIES ACQUISITION LLC is acting on behalf of 503-515 UNION/BROOKLYN LLC with regard to the purchase of the property (the "Property") set forth in Schedule "A" annexed hereto;

WHEREAS, 18 PROPERTIES ACQUISITION LLC will take title to the property on behalf of 503-515 UNION/BROOKLYN LLC. Principal has appointed Agent for the sole purpose of acquiring the property on principals behalf as part of the acquisition of properties from a trustee. Immediately upon receiving a deed for the conveyance from trustee Agent will issue a deed to the Principal

NOW, THEREFORE, in consideration of the mutual premises herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

1. 18 PROPERTIES ACQUISITION LLC will take title to the property and will reconvey title to 503-515 UNION/BROOKLYN LLC.

2. 18 PROPERTIES ACQUISITION LLC has no interest in the property and is acting solely as agent on behalf of 503-515 UNION/BROOKLYN LLC.

**IN WITNESS WHEREOF**, the parties have made this agreement as of the day and year first above written.

18 PROPERTIES ACQUISITION LLC

By: _____

503-515 UNION/BROOKLYN LLC

By: _____

H:\18 Properties\503-515 Union\agency agreement.wpd

REEL 5997 PG 2331

STATE OF NEW YORK )
COUNTY OF KINGS ) ss.:

On the 18 day of Nov in the year 2004 before me, the undersigned, a notary public in and for said state, personally appeared, Meyer Chetrit personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) acted, executed the instrument.

Notary Public

MARTIN SILVERSTEIN
Notary Public, State Of New York
No. 4696011
Qualified In Nassau County
Commission Expires Nov. 30, 2005

WARRANTY DEED
WITH FULL COVENANTS

TITLE NO. MTAM 5816-F

18 Properties Acquisition LLC

TO

503-515 Union/Brooklyn LLC

REEL 5997 PG 2331

| | |
|---|---|
| SECTION | |
| BLOCK | 2315 |
| LOT | 21 |
| COUNTY OR TOWN | Kings |
| PREMISES: | 503-515 Union Avenue<br>Brooklyn, NY |

RETURN BY MAIL TO:

Sukenik, Segal & Graff, P.C.
417 Fifth Avenue, 3rd floor
New York, NY 10016

# APPENDIX C

# SANBORN MAPS

# 2007 Certified Sanborn Map

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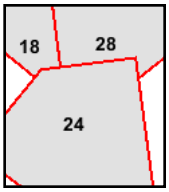
Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | 11 Jackson Street, Brooklyn, NY |
| Address: | 11 Jackson Street |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 2007 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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Volume 4, Sheet 24
Volume 4, Sheet 28

N

# 2004 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 2004 |

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Outlined areas indicate map sheets within the collection.

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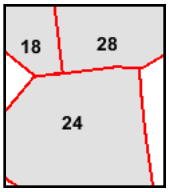


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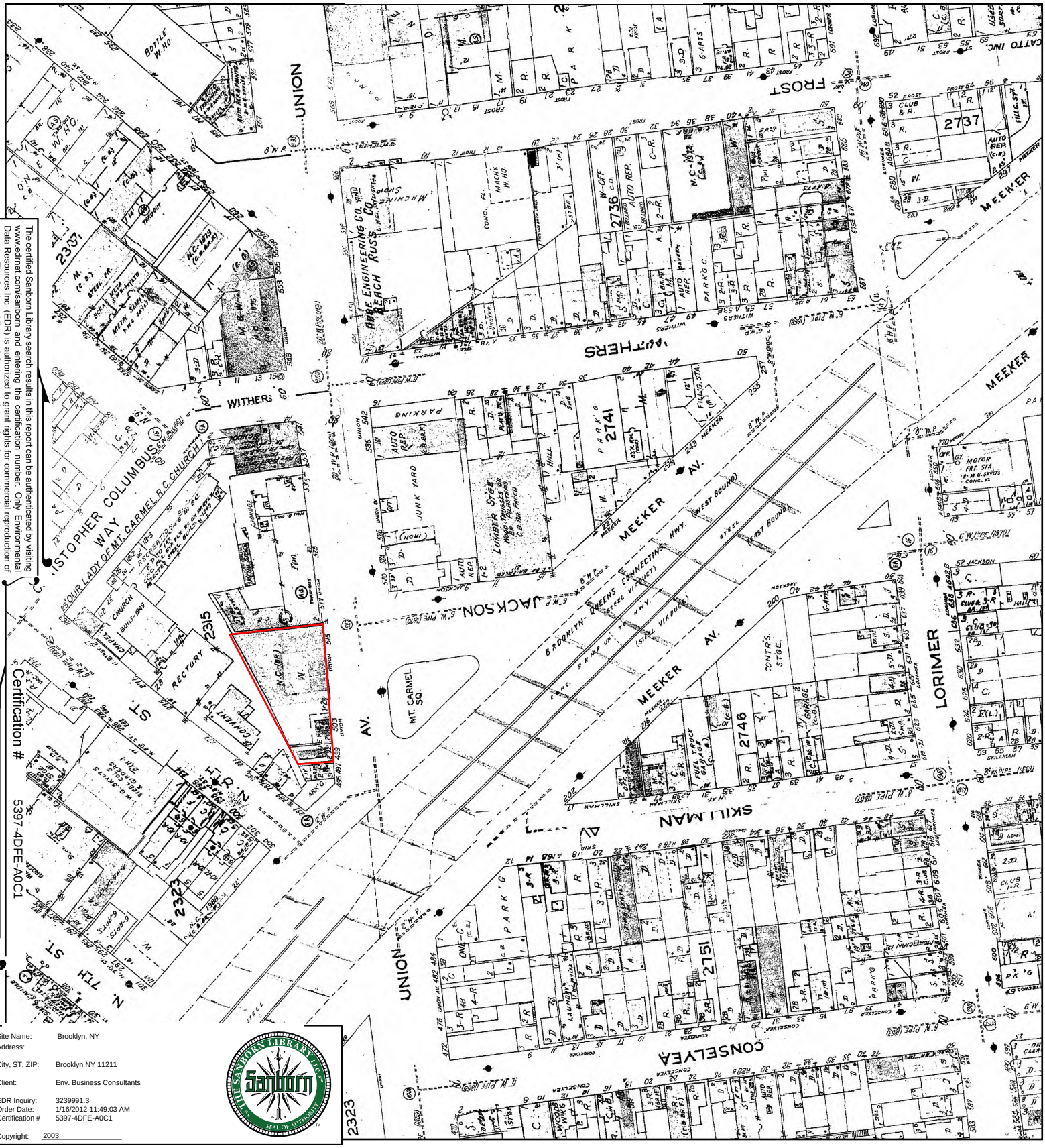
Volume 4, Sheet 24
Volume 4, Sheet 28

N

# 2003 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 2003 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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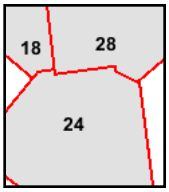


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Volume 4, Sheet 24
Volume 4, Sheet 28

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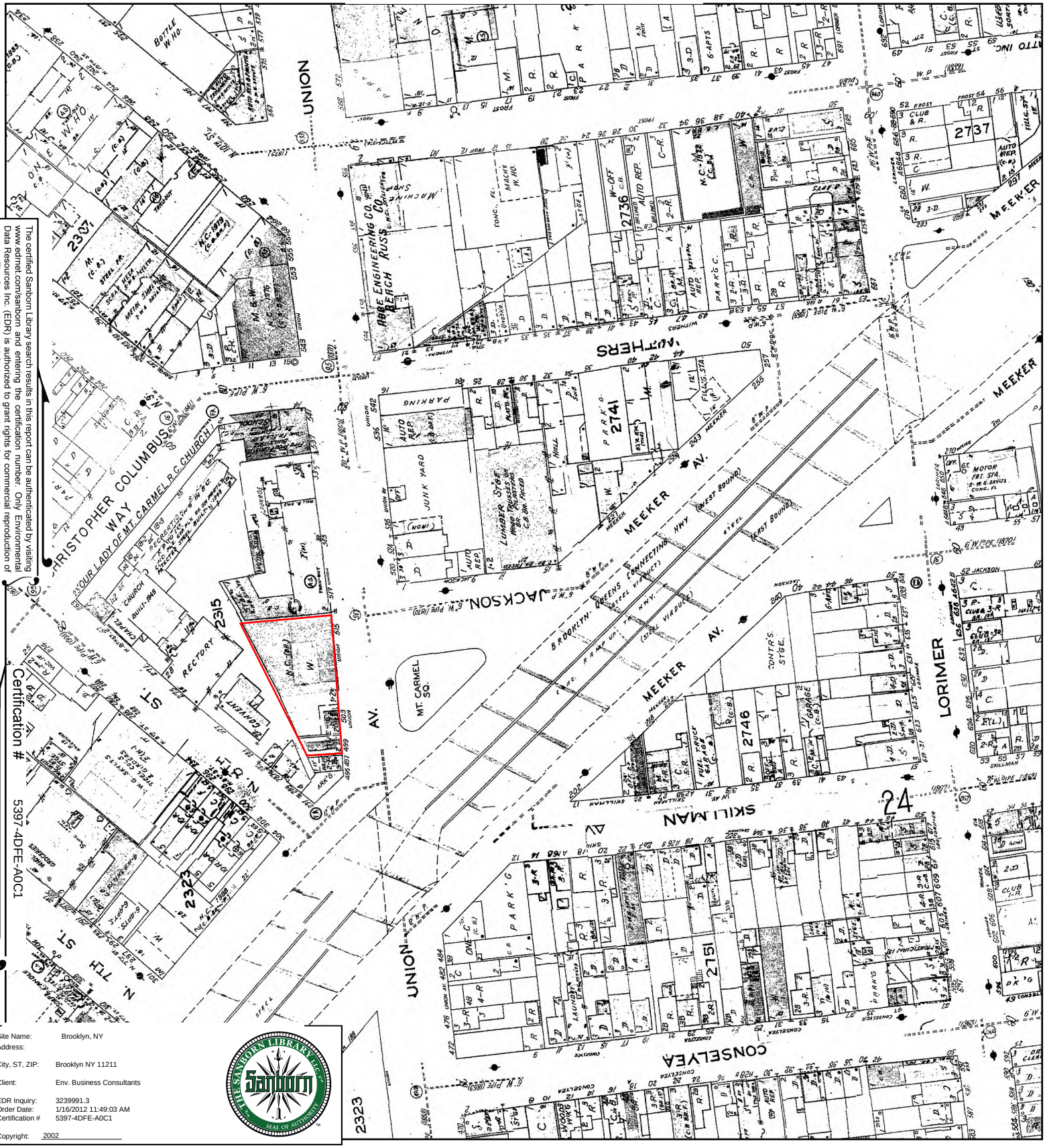
# 2002 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 2002 |

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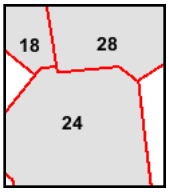


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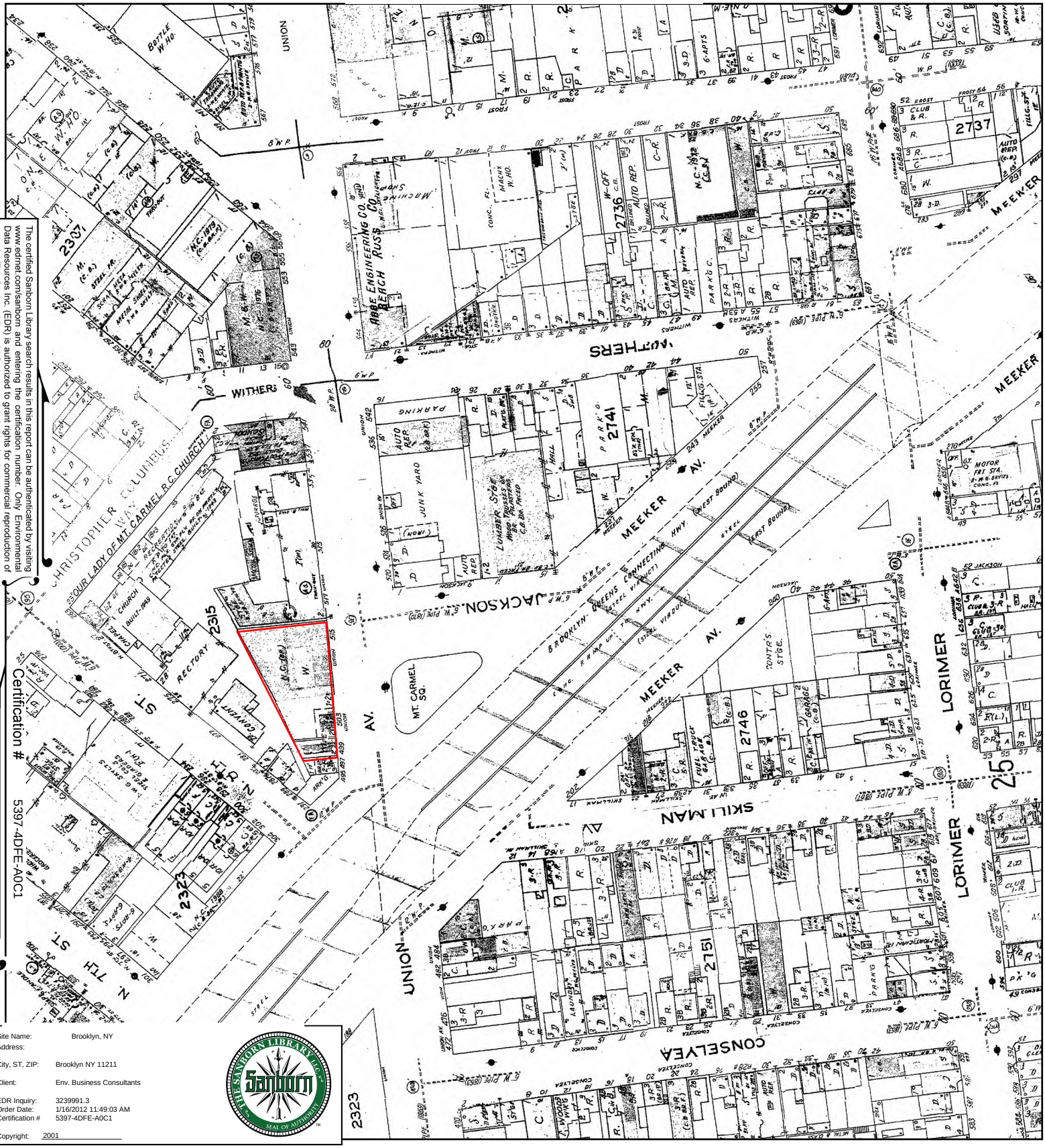
Volume 4, Sheet 24
Volume 4, Sheet 28

N

# 2001 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 2001 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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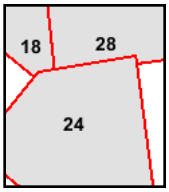


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Volume 4, Sheet 24
Volume 4, Sheet 28

N

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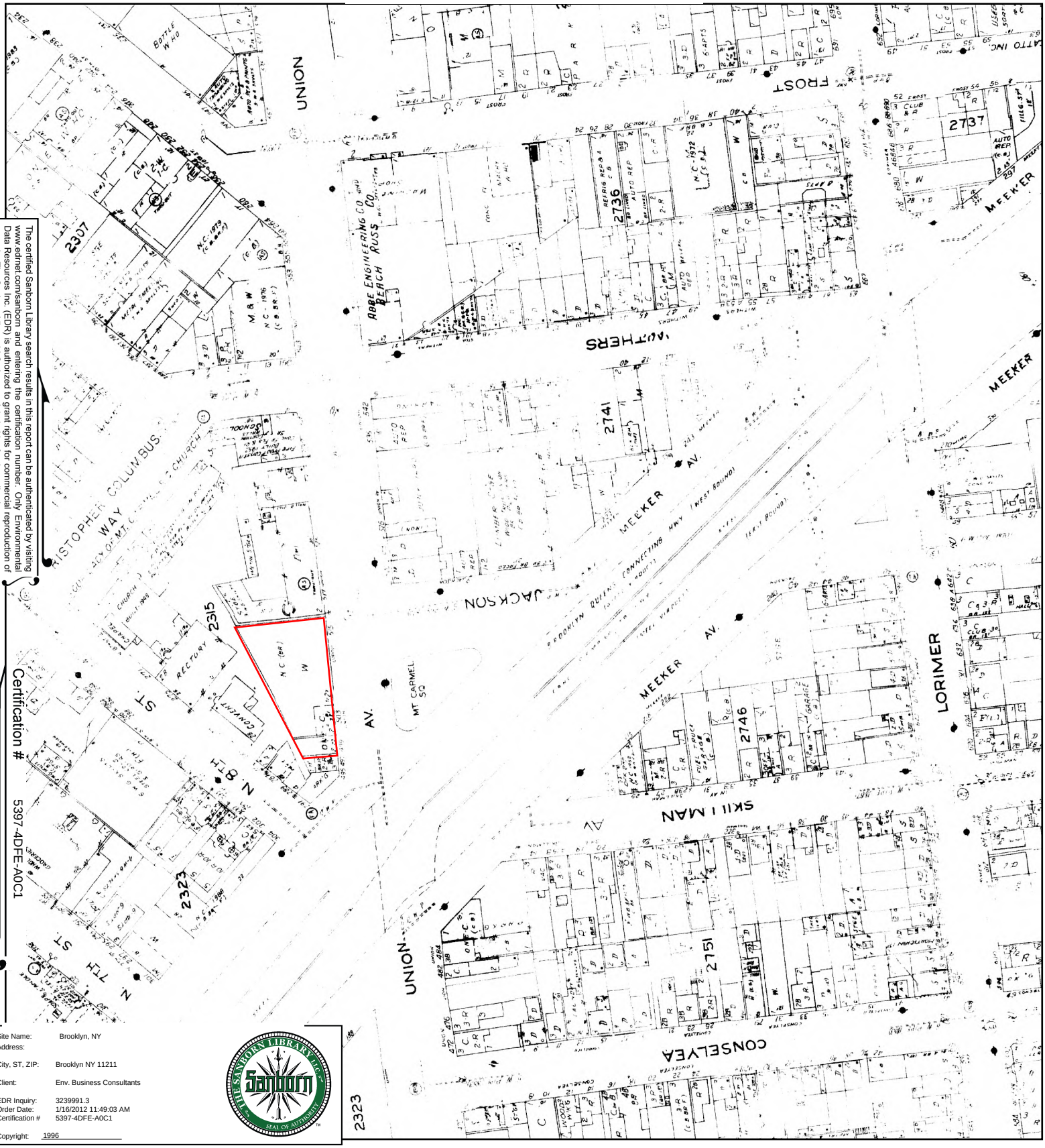


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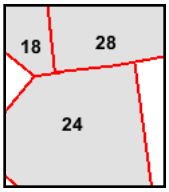
Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1996 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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Volume 4, Sheet 28

0 Feet 150 300 600

N

# 1995 Certified Sanborn Map

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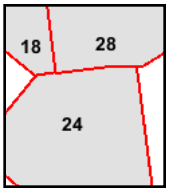
Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1995 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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0 Feet 150 300 600

N

# 1993 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1993 |

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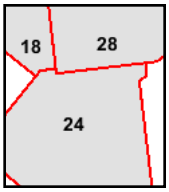
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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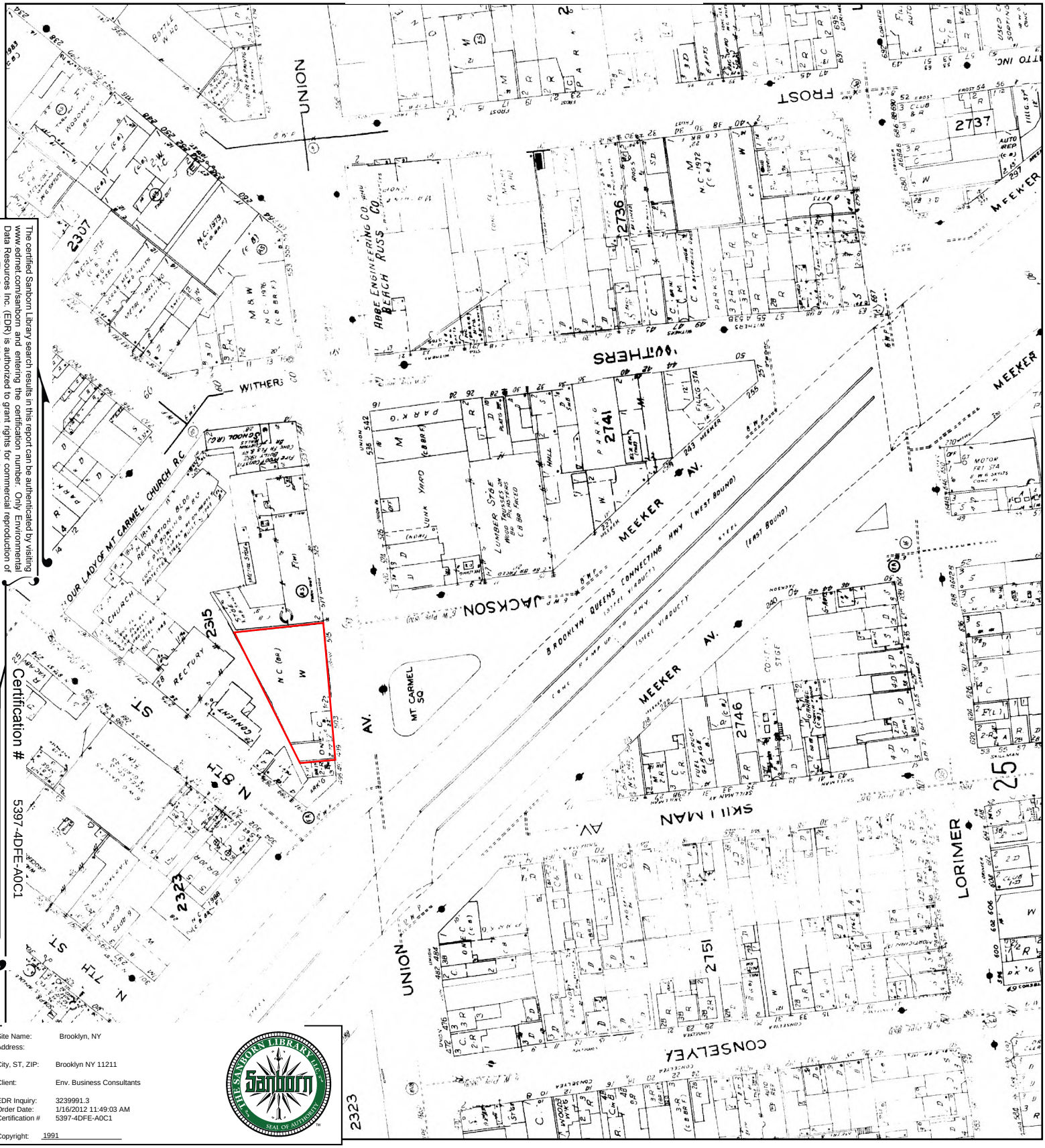
# 1991 Certified Sanborn Map

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|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1991 |

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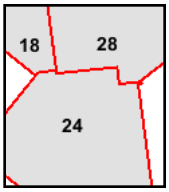


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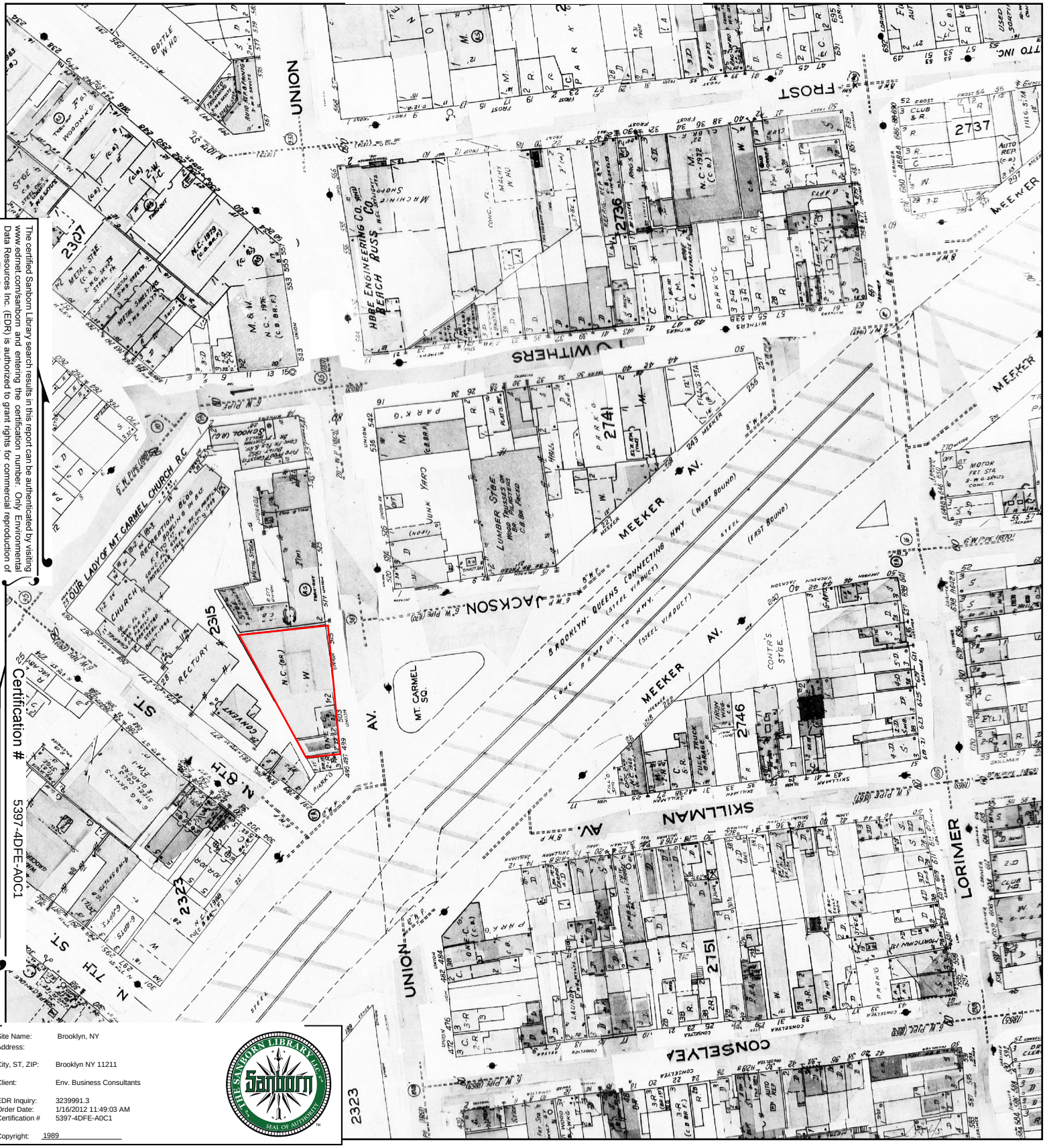
# 1989 Certified Sanborn Map

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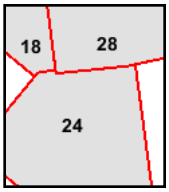
Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1989 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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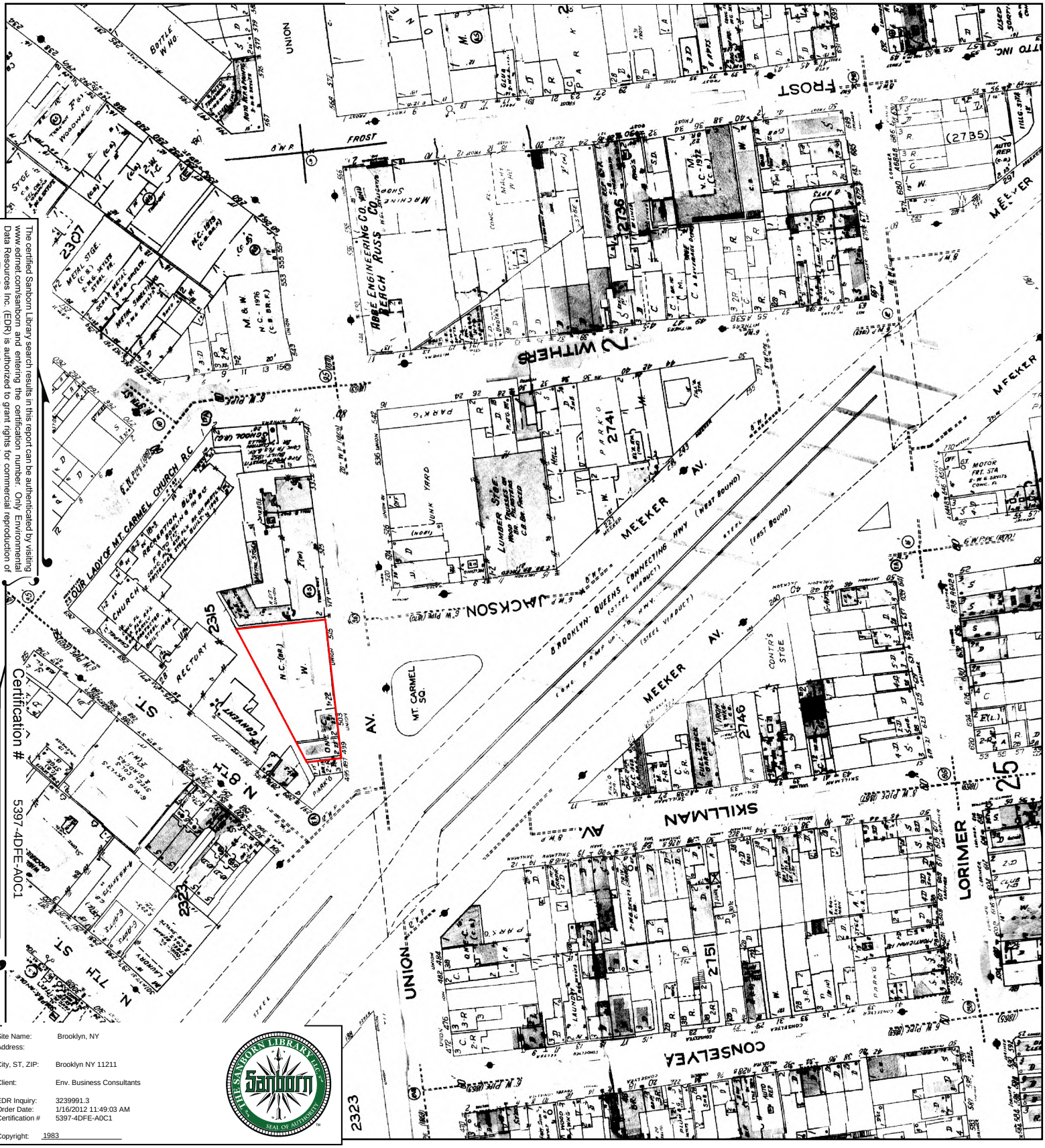
# 1983 Certified Sanborn Map

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| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1983 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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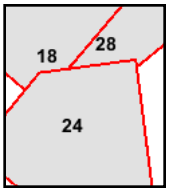


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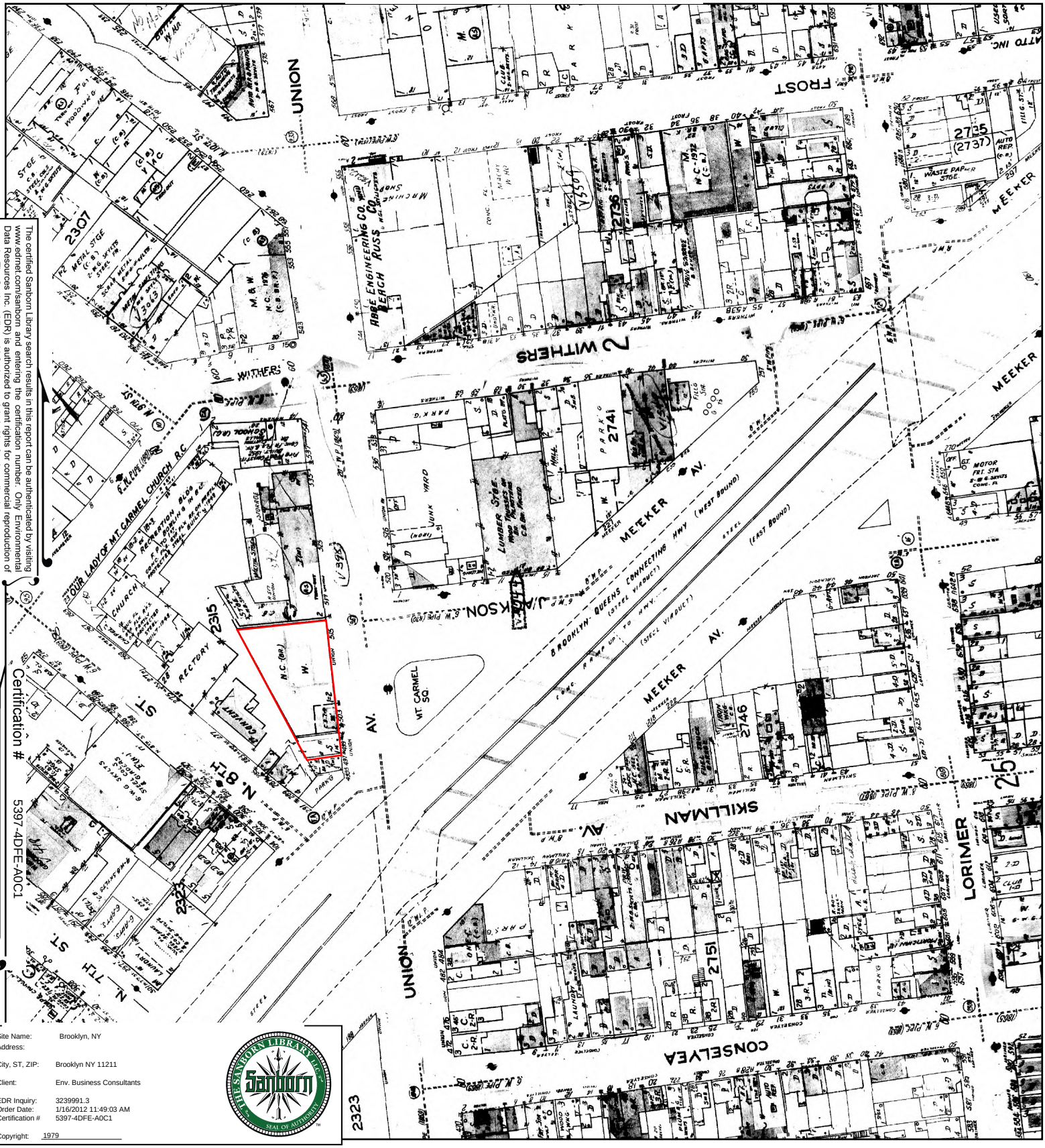
# 1979 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

Site Name: Brooklyn, NY
Address:
City, ST, ZIP: Brooklyn NY 11211
Client: Env. Business Consultants
EDR Inquiry: 3239991.3
Order Date: 1/16/2012 11:49:03 AM
Certification # 5397-4DFE-A0C1
Copyright: 1979

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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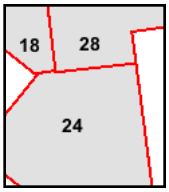


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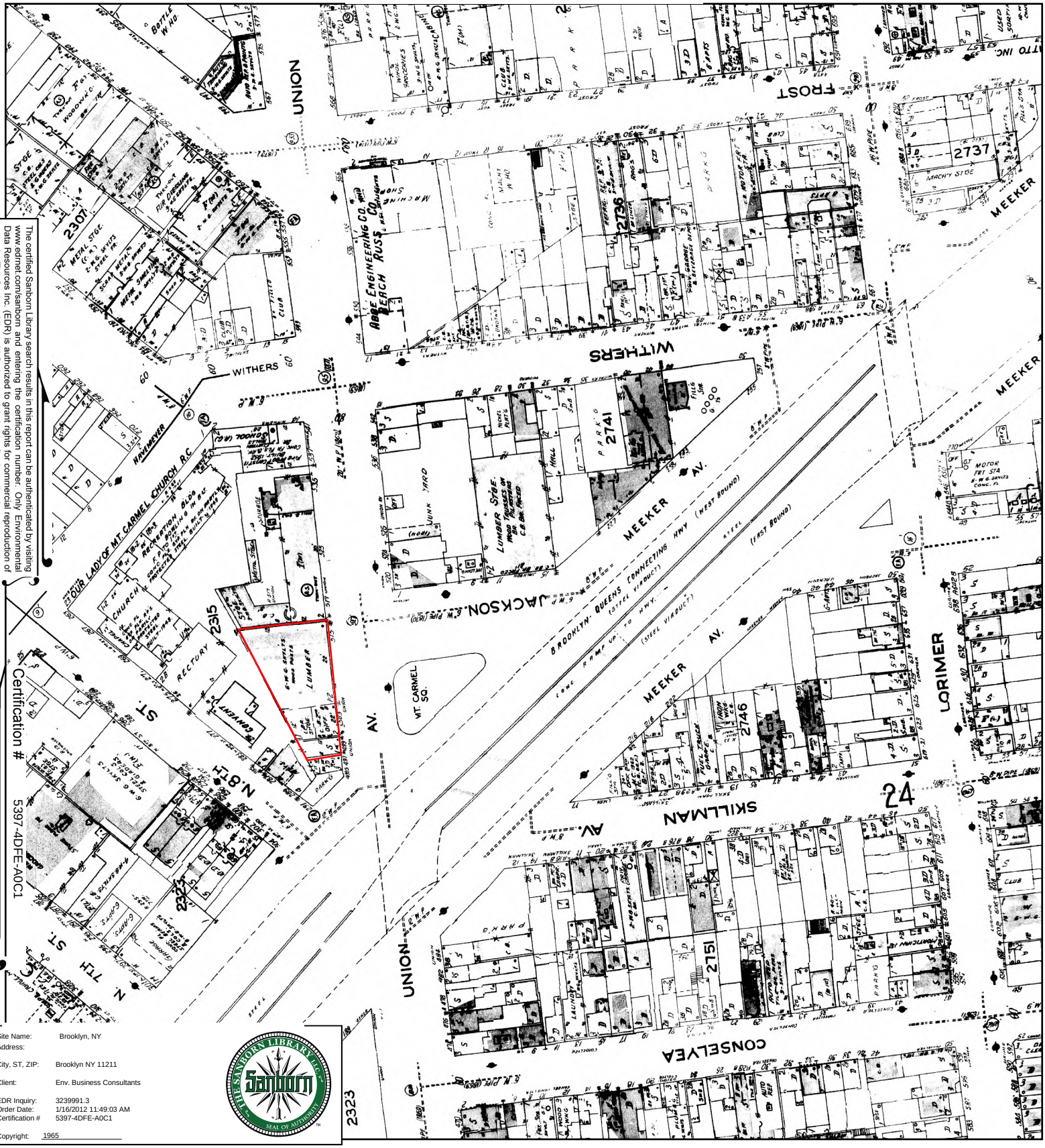
# 1965 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1965 |

This Certified Sanborn Map combines the following sheets.
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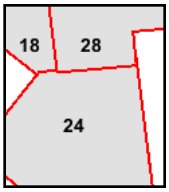


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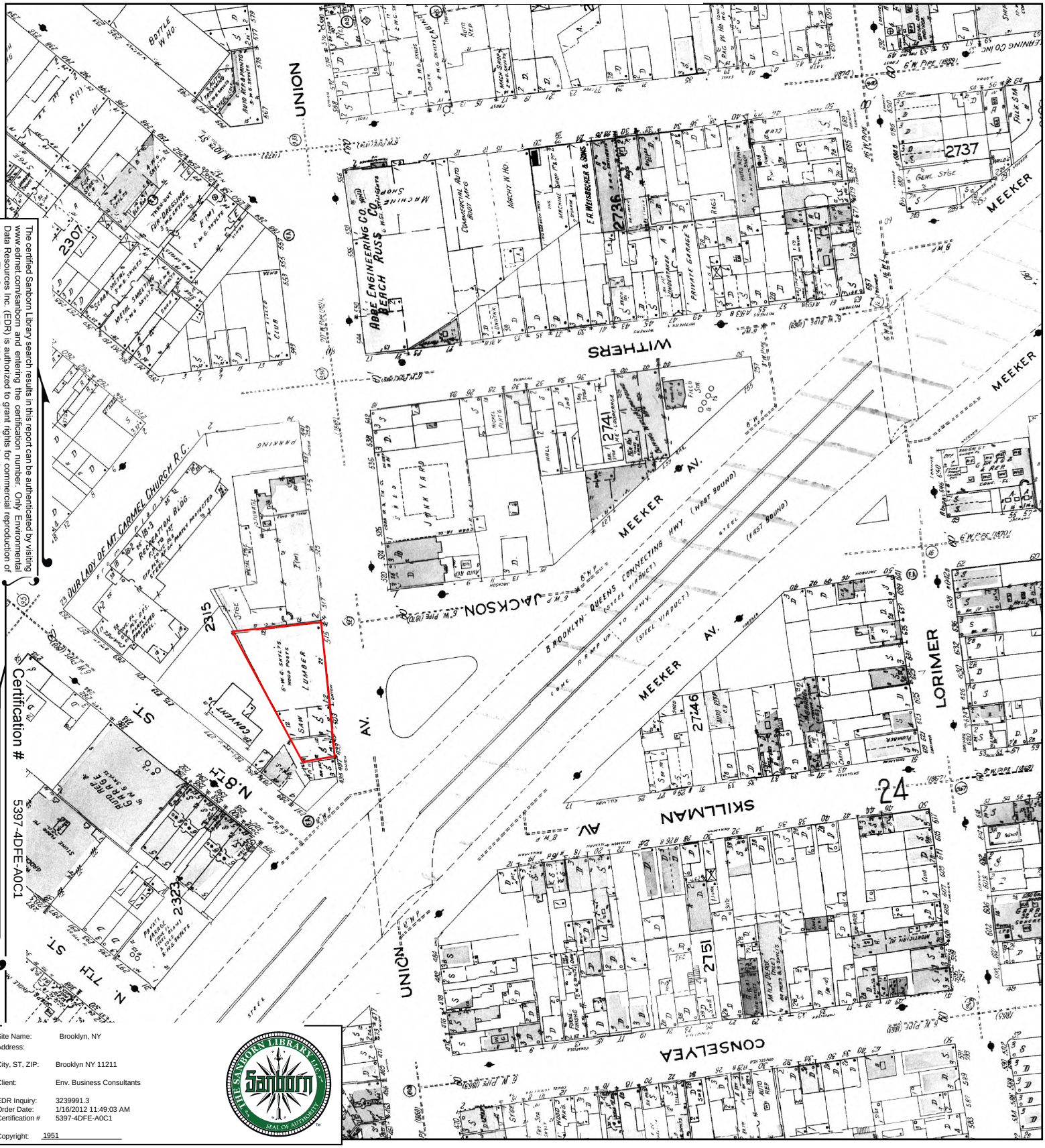
# 1951 Certified Sanborn Map

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| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
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| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1951 |

This Certified Sanborn Map combines the following sheets.
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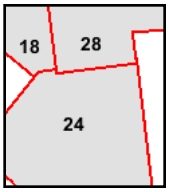


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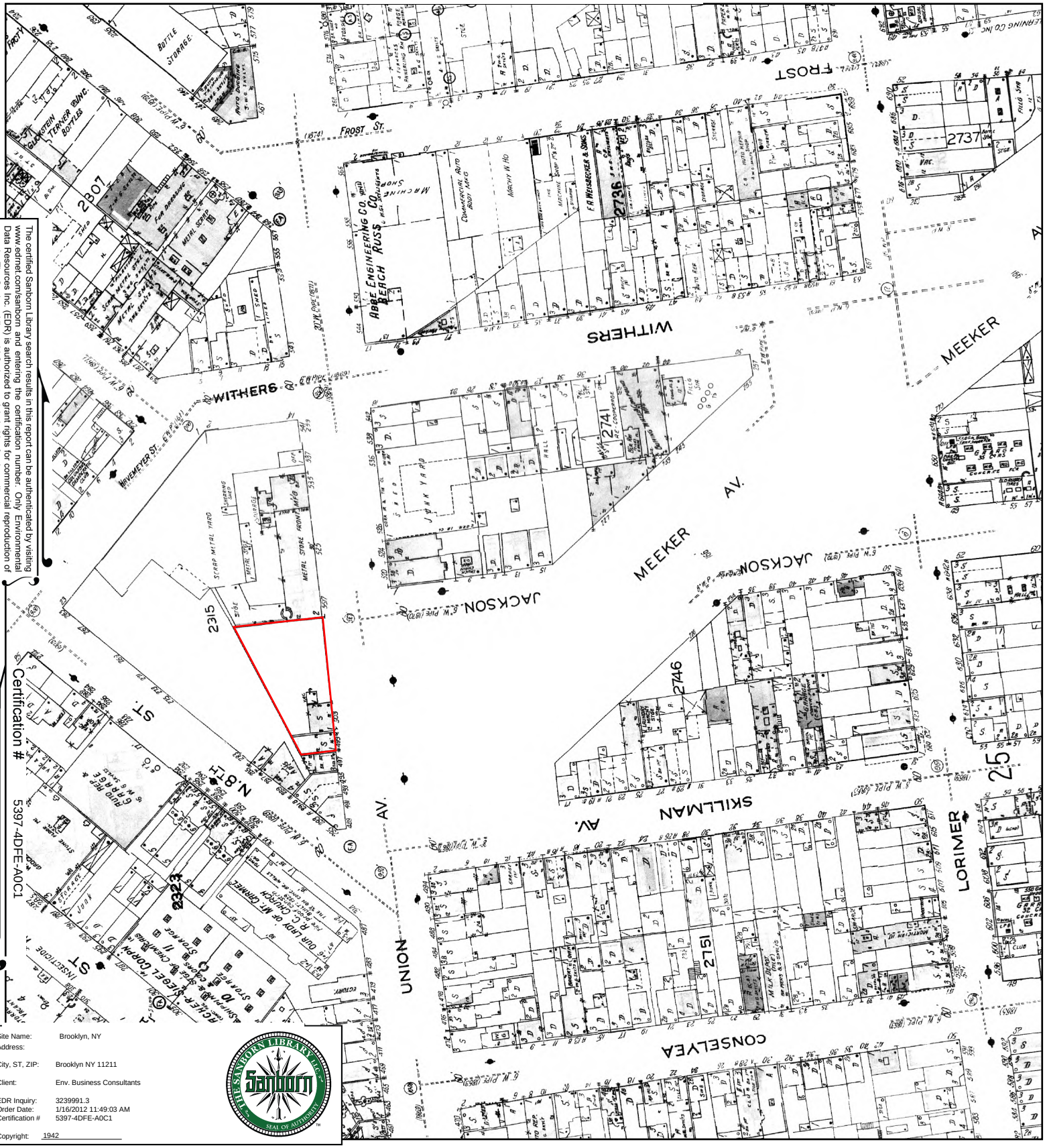
# 1942 Certified Sanborn Map

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| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1942 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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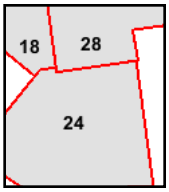


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# 1916 Certified Sanborn Map

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Site Name: Brooklyn, NY
Address:
City, ST, ZIP: Brooklyn NY 11211
Client: Env. Business Consultants
EDR Inquiry: 3239991.3
Order Date: 1/16/2012 11:49:03 AM
Certification # 5397-4DFE-A0C1
Copyright: 1916

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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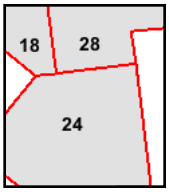


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# 1905 Certified Sanborn Map

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Certification # 5397-4DFE-A0C1

| | |
|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1905 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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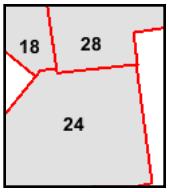


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# 1887 Certified Sanborn Map

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|---|---|
| Site Name: | Brooklyn, NY |
| Address: | |
| City, ST, ZIP: | Brooklyn NY 11211 |
| Client: | Env. Business Consultants |
| EDR Inquiry: | 3239991.3 |
| Order Date: | 1/16/2012 11:49:03 AM |
| Certification # | 5397-4DFE-A0C1 |
| Copyright: | 1887 |

This Certified Sanborn Map combines the following sheets.
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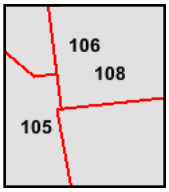
0 Feet 150 300 600

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# APPENDIX D

# CITY DIRECTORY SEARCH

**11 Jackson Street, Brooklyn, NY**

11 Jackson Street
Brooklyn, NY 11211

Inquiry Number: 3239991.4
January 16, 2012

# The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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## SECTION

**Executive Summary**

**Findings**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
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 1928 through 2005. 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.

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 2005 | Hill-Donnelly Corporation | X | X | X | - |
| 2000 | Cole Information Services | X | X | X | - |
| 1997 | NYNEX | X | X | X | - |
| 1992 | NYNEX Informantion Resource Co. | - | X | X | - |
| 1985 | NYNEX Information Resources Company | - | X | X | - |
| 1980 | New York Telephone | - | X | X | - |
| 1976 | New York Telephone | - | X | X | - |
| 1973 | New York Telephone | X | X | X | - |
| 1970 | New York Telephone | X | X | X | - |
| 1965 | New York Telephone | X | X | X | - |
| 1960 | New York Telephone | - | X | X | - |
| | New York Telephone Company | - | X | X | - |
| 1949 | New York Telephone Company | - | X | X | - |
| 1945 | New York Telephone Company | - | X | X | - |
| 1940 | New York Telephone Company | - | X | X | - |
| 1934 | R. L. Polk & Co. | - | X | X | - |
| 1928 | New York Telephone | - | X | X | - |

# EXECUTIVE SUMMARY

## SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

| ***Address*** | ***Type*** | ***Findings*** |
|---|---|---|
| 13 Jackson Street | Client Entered | |
| 15 Jackson Street | Client Entered | X |
| 1 Jackson Street | Client Entered | |
| 520 Union Avenue | Client Entered | X |
| 524 Union Avenue | Client Entered | X |
| 526 Union Avenue | Client Entered | X |
| 32 Withers Street | Client Entered | X |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

11 Jackson Street
Brooklyn, NY 11211

### FINDINGS DETAIL

Target Property research detail.

| Year | Uses | Source |
|---|---|---|
| 2005 | Car Fashion Seat Covers | Hill-Donnelly Corporation |
| | Zheng Ren Wel | Hill-Donnelly Corporation |
| 2000 | ARNMART WHOL BEER | Cole Information Services |
| 1997 | Arnmart Whol Beer Dstrbtrs | NYNEX |
| 1973 | Driggs Plywd Corp | New York Telephone |
| 1970 | DRIGGS PLYWD CORP | New York Telephone |
| 1965 | DRIGS PLYWD CORP | New York Telephone |

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

## JACKSON ST

### 10 JACKSON ST

| Year | Uses | Source |
|---|---|---|
| 1997 | New York Office Systems Corp | NYNEX |
| | New York Office Systems | NYNEX |
| | Affinity Courier Systems | NYNEX |
| 1973 | Belgrarer Melvin rl est | New York Telephone |
| | PRUDENTIAL STAR MAINTENANCE CORP | New York Telephone |

### 15 JACKSON ST

| Year | Uses | Source |
|---|---|---|
| 2005 | Number2D Martinez Francisco | Hill-Donnelly Corporation |
| | Number7 G Wynn Yvonne | Hill-Donnelly Corporation |
| | Number6 F Vilanueva Ada | Hill-Donnelly Corporation |
| | Number3 Eh Turner Leon | Hill-Donnelly Corporation |
| | Number2 A h Spears Ronald | Hill-Donnelly Corporation |
| | Number50 Small Martion v7 Spears Maxine | Hill-Donnelly Corporation |
| | Number4 G Shaw Johnrie Mae | Hill-Donnelly Corporation |
| | Number68 Rosario Anna | Hill-Donnelly Corporation |
| | Number4D h Rivers Wilie A | Hill-Donnelly Corporation |
| | Rievera Wanda | Hill-Donnelly Corporation |
| | Number4 C h Rd Oscar | Hill-Donnelly Corporation |
| | Pope D | Hill-Donnelly Corporation |
| | f IB Ortiz Georglna | Hill-Donnelly Corporation |
| | New York Housing Auth | Hill-Donnelly Corporation |
| | Number2 G h Myers Patricia | Hill-Donnelly Corporation |
| | Number2 F h Mithel Joel | Hill-Donnelly Corporation |
| | Number2 Bh Mangum Tira | Hill-Donnelly Corporation |
| | NumberIC Kiriland N | Hill-Donnelly Corporation |
| | Number6 Ch Jones R | Hill-Donnelly Corporation |
| | h Graham Kridand | Hill-Donnelly Corporation |
| | F h Gordon Lisa | Hill-Donnelly Corporation |

# FINDINGS

**19 JACKSON ST**

| Year | Uses | Source |
|---|---|---|
| 1973 | Alpert Stella Mrs | New York Telephone |

## JACKSON st

**21 JACKSON st**

| Year | Uses | Source |
|---|---|---|
| 1973 | PALLADINO Michl | New York Telephone |

## JACKSON ST

**9 JACKSON ST**

| Year | Uses | Source |
|---|---|---|
| 2005 | Henrys Body Shop I | Hill-Donnelly Corporation |
| 2000 | S W BODY FENDER | Cole Information Services |
| 1997 | S W Body Fender | NYNEX |
| | Johns Automatic Trasmission | NYNEX |

## Jackson Street

**15 Jackson Street**

| Year | Uses | Source |
|---|---|---|
| 2005 | h Graham Kridand | Hill-Donnelly Corporation |
| | Number6 Ch Jones R | Hill-Donnelly Corporation |
| | NumberIC Kiriland N | Hill-Donnelly Corporation |
| | Number2 Bh Mangum Tira | Hill-Donnelly Corporation |
| | Number2D Martinez Francisco | Hill-Donnelly Corporation |
| | Number2 G h Myers Patricia | Hill-Donnelly Corporation |
| | New York Housing Auth | Hill-Donnelly Corporation |
| | f IB Ortiz Georglna | Hill-Donnelly Corporation |
| | Pope D | Hill-Donnelly Corporation |
| | Number4 C h Rd Oscar | Hill-Donnelly Corporation |
| | Rievera Wanda | Hill-Donnelly Corporation |
| | Number4D h Rivers Wilie A | Hill-Donnelly Corporation |
| | Number68 Rosario Anna | Hill-Donnelly Corporation |
| | Number4 G Shaw Johnrie Mae | Hill-Donnelly Corporation |
| | Number50 Small Martion v7 Spears Maxine | Hill-Donnelly Corporation |
| | Number2 A h Spears Ronald | Hill-Donnelly Corporation |
| | Number3 Eh Turner Leon | Hill-Donnelly Corporation |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2005 | Number6 F Vilanueva Ada | Hill-Donnelly Corporation |
| | Number7 G Wynn Yvonne | Hill-Donnelly Corporation |
| | Number2 F h Mithel Joel | Hill-Donnelly Corporation |
| | F h Gordon Lisa | Hill-Donnelly Corporation |

## MECKER AVE

### 205 MECKER AVE

| Year | Uses | Source |
|---|---|---|
| 1934 | BROWN MARGT R | R. L. Polk & Co. |

### 207 MECKER AVE

| Year | Uses | Source |
|---|---|---|
| 1934 | GRAY GEO SLSMN H | R. L. Polk & Co. |

## MEEKER

### 205 MEEKER

| Year | Uses | Source |
|---|---|---|
| 1934 | DEGAETANA ROSE R | R. L. Polk & Co. |

### 207 MEEKER

| Year | Uses | Source |
|---|---|---|
| 1934 | MAIER CHAS MEATS | R. L. Polk & Co. |

## MEEKER AVE

### 205 MEEKER AVE

| Year | Uses | Source |
|---|---|---|
| 1934 | TAUBENFELD HENRY AGT H | R. L. Polk & Co. |
| | TAUBENFELD THOS CLK R | R. L. Polk & Co. |
| | TAUBENFELD JAS R | R. L. Polk & Co. |
| | TAUBENFELD FRANCES CLK R | R. L. Polk & Co. |
| | TAUBENFELD CATH CLK R | R. L. Polk & Co. |
| | DEGAETANA NELLIE MRS BARBER H DO | R. L. Polk & Co. |
| | DEGAETANA MARY H | R. L. Polk & Co. |
| | DEGAETANA JACK R | R. L. Polk & Co. |
| | DEGAETANO ANNA R | R. L. Polk & Co. |
| | CANFIELD | R. L. Polk & Co. |

# FINDINGS

**207 MEEKER AVE**

| Year | Uses | Source |
|---|---|---|
| 1934 | WARMER R | R. L. Polk & Co. |
| | WERNER HELEN SLSWN R | R. L. Polk & Co. |
| | WERNER MARGT H | R. L. Polk & Co. |
| | WERNER LOUIS MECH R | R. L. Polk & Co. |
| | WERNER GEO CLK R | R. L. Polk & Co. |
| 1928 | FUNK ALWIN A BTCHR | New York Telephone |
| | WERNER JOS R | New York Telephone |
| | TYROLER ABR R | New York Telephone |

## UNION

**510 UNION**

| Year | Uses | Source |
|---|---|---|
| 1934 | MACPHERSON RALPH BR MGR A & P TEA CO R | R. L. Polk & Co. |

**514 UNION**

| Year | Uses | Source |
|---|---|---|
| 1960 | SPEDER LEON G | New York Telephone |

**522 UNION**

| Year | Uses | Source |
|---|---|---|
| 1934 | GIVEN JOS JANITOR R | R. L. Polk & Co. |

## UNION AVE

**519 UNION AVE**

| Year | Uses | Source |
|---|---|---|
| 2005 | Chaucas Restaurant I | Hill-Donnelly Corporation |

**520 UNION AVE**

| Year | Uses | Source |
|---|---|---|
| 2005 | h Altobello Stephen | Hill-Donnelly Corporation |
| 2000 | APARTMENTS | Cole Information Services |
| | 2 A KUENSTLER | Cole Information Services |
| | 1 STEPH M ALTOBELLO | Cole Information Services |
| 1997 | HARRISON Philip J | NYNEX |
| | KUENSTLER A | NYNEX |
| 1992 | FARINO FELICIA | NYNEX Informantion Resource Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1985 | MANGONE ANTHONY J | NYNEX Information Resources Company |
| | TREZZA J | NYNEX Information Resources Company |
| 1980 | TREZZA J | New York Telephone |
| 1976 | MANGONE ANTHONY J | New York Telephone |
| 1973 | Mangone Anthony J | New York Telephone |
| 1965 | Del Sole Anthony | New York Telephone |
| | Mangone Anthony J | New York Telephone |
| | Walsh Stephen | New York Telephone |
| 1960 | DELSOLE ANTHONY | New York Telephone |
| | FICETO RALPH | New York Telephone |
| | FISCINA NICHOLAS | New York Telephone |
| | LEWANDOWSKI ANNETTE | New York Telephone |
| | ZAMBROTTA VINCENT M | New York Telephone |
| | Del Sole Anthony | New York Telephone Company |
| | Ficeto Ralph | New York Telephone Company |
| | Fiscina Nicholas | New York Telephone Company |
| | Lewandowski Annette | New York Telephone Company |
| | Zambrotta Vincent M | New York Telephone Company |
| 1940 | Murcott & Campbell file mfrs | New York Telephone Company |

**521 UNION AVE**

| Year | Uses | Source |
|---|---|---|
| 1934 | HILDEGARDE WICHERT FELLOW<br>BROOKLYN COLLEGE R | R. L. Polk & Co. |

**524 UNION AVE**

| Year | Uses | Source |
|---|---|---|
| 2005 | h Abel Adam | Hill-Donnelly Corporation |
| | h Fioccola Veronica | Hill-Donnelly Corporation |
| | Schindler Helene | Hill-Donnelly Corporation |
| | Slavin Helene v | Hill-Donnelly Corporation |
| | Stillman J | Hill-Donnelly Corporation |
| | Wortman Scott | Hill-Donnelly Corporation |
| 2000 | APARTMENTS | Cole Information Services |
| | ADAM ABEL | Cole Information Services |
| | CHRISTINA BRIGHAM | Cole Information Services |
| | 3 VERONICA FIOCCOLA | Cole Information Services |
| | THOMAS A PUTMAN | Cole Information Services |
| 1997 | ILDEFONSON Georgina | NYNEX |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1997 | GARZON Farnando | NYNEX |
| 1992 | REYES ANNA | NYNEX Informantion Resource Co. |
| | ROSADO JUDY | NYNEX Informantion Resource Co. |
| 1976 | BARBARO DOMINICK | New York Telephone |
| | COPCZYNSKI WILLIAM | New York Telephone |
| | PAISANO LORRAINE | New York Telephone |
| 1973 | Barbaro Dominick | New York Telephone |
| | Corner Inc statnry | New York Telephone |
| | William | New York Telephone |
| | Paisano Lorraine | New York Telephone |
| 1970 | Barbaro Dominick | New York Telephone |
| | Copezynski William | New York Telephone |
| | De Vivo Biofio | New York Telephone |
| | Paisano Lorraine | New York Telephone |
| 1965 | De Vivo Biofio | New York Telephone |
| | Barbaro Dominick | New York Telephone |
| | Paisano Lorraine | New York Telephone |
| 1960 | PAISANO JOS | New York Telephone |
| | Paisano Jos | New York Telephone Company |

## Union Avenue

**520 Union Avenue**

| Year | Uses | Source |
|---|---|---|
| 2005 | h Altobello Stephen | Hill-Donnelly Corporation |
| 2000 | 1 STEPH M ALTOBELLO | Cole Information Services |
| | APARTMENTS | Cole Information Services |
| | 2 A KUENSTLER | Cole Information Services |
| 1997 | HARRISON Philip J | NYNEX |
| | KUENSTLER A | NYNEX |
| 1992 | FARINO FELICIA | NYNEX Informantion Resource Co. |
| 1985 | TREZZA J | NYNEX Information Resources Company |
| | MANGONE ANTHONY J | NYNEX Information Resources Company |
| 1980 | TREZZA J | New York Telephone |
| 1976 | MANGONE ANTHONY J | New York Telephone |
| 1973 | Mangone Anthony J | New York Telephone |
| 1965 | Mangone Anthony J | New York Telephone |
| | Walsh Stephen | New York Telephone |
| | Del Sole Anthony | New York Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1960 | LEWANDOWSKI ANNETTE | New York Telephone |
| | ZAMBROTTA VINCENT M | New York Telephone |
| | DELSOLE ANTHONY | New York Telephone |
| | FISCINA NICHOLAS | New York Telephone |
| | FICETO RALPH | New York Telephone |
| | Fiscina Nicholas | New York Telephone Company |
| | Lewandowski Annette | New York Telephone Company |
| | Zambrotta Vincent M | New York Telephone Company |
| | Del Sole Anthony | New York Telephone Company |
| | Ficeto Ralph | New York Telephone Company |
| 1940 | Murcott & Campbell file mfrs | New York Telephone Company |

**524 Union Avenue**

| Year | Uses | Source |
|---|---|---|
| 2005 | Schindler Helene | Hill-Donnelly Corporation |
| | h Fioccola Veronica | Hill-Donnelly Corporation |
| | h Abel Adam | Hill-Donnelly Corporation |
| | Slavin Helene v | Hill-Donnelly Corporation |
| | Stillman J | Hill-Donnelly Corporation |
| | Wortman Scott | Hill-Donnelly Corporation |
| 2000 | APARTMENTS | Cole Information Services |
| | CHRISTINA BRIGHAM | Cole Information Services |
| | 3 VERONICA FIOCCOLA | Cole Information Services |
| | THOMAS A PUTMAN | Cole Information Services |
| | ADAM ABEL | Cole Information Services |
| 1997 | ILDEFONSON Georgina | NYNEX |
| | GARZON Farnando | NYNEX |
| 1992 | REYES ANNA | NYNEX Informantion Resource Co. |
| | ROSADO JUDY | NYNEX Informantion Resource Co. |
| 1976 | COPCZYNSKI WILLIAM | New York Telephone |
| | BARBARO DOMINICK | New York Telephone |
| | PAISANO LORRAINE | New York Telephone |
| 1973 | Barbaro Dominick | New York Telephone |
| | William | New York Telephone |
| | Paisano Lorraine | New York Telephone |
| | Corner Inc statnry | New York Telephone |
| 1970 | Copezynski William | New York Telephone |
| | Paisano Lorraine | New York Telephone |
| | De Vivo Biofio | New York Telephone |

| Year | Uses | Source |
|---|---|---|
| 1970 | Barbaro Dominick | New York Telephone |
| 1965 | Paisano Lorraine | New York Telephone |
| | De Vivo Biofio | New York Telephone |
| | Barbaro Dominick | New York Telephone |
| 1960 | Paisano Jos | New York Telephone Company |
| | PAISANO JOS | New York Telephone |

**526 Union Avenue**

| Year | Uses | Source |
|---|---|---|
| 1992 | UNION SCRAP IRON & METALS | NYNEX Informantion Resource Co. |
| | PIERRE ANDREW | NYNEX Informantion Resource Co. |
| 1985 | PIERRE ANDREW B | NYNEX Information Resources Company |
| | UNION SCRAP IRON & METALS | NYNEX Information Resources Company |
| 1980 | PIERRE ANDREW B | New York Telephone |
| 1976 | PIERRE ANDREW B | New York Telephone |
| | UNION SCRAP IRON & METALS | New York Telephone |
| 1973 | Pierre Andrew b | New York Telephone |
| | Union Scrap Iron & Metals | New York Telephone |
| 1970 | Union Scrap Iron & Metals | New York Telephone |
| | Pierre Andrew b | New York Telephone |
| 1965 | Union Scrap Iron & Metals | New York Telephone |
| | Pierre Andrew b | New York Telephone |
| 1960 | Pierre Andrew b | New York Telephone Company |
| | Union Scrap Iron & Metals | New York Telephone Company |
| | PIERRE ANDREW B | New York Telephone |
| | UNION SCRAP IRON & METALS | New York Telephone |
| 1949 | Ganz I scrap Iron | New York Telephone Company |
| 1945 | Ganz I scrap Iron | New York Telephone Company |
| 1940 | Ganz I scrap iron | New York Telephone Company |

## Withers Street

**32 Withers Street**

| Year | Uses | Source |
|---|---|---|
| 2005 | 24 Hour A Day Locksmith | Hill-Donnelly Corporation |
| 2000 | ANTHONY BAMONTE | Cole Information Services |
| | BAMONTES RSTRNT | Cole Information Services |
| | BAMONTES RSTRNT | Cole Information Services |
| 1997 | BAMONTE Anthony | NYNEX |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1997 | Bamontes Restrnt | NYNEX |
| 1992 | BAMONTE ANTHONY | NYNEX Informantion Resource Co. |
| | BAMONTES RESRNT | NYNEX Informantion Resource Co. |
| 1985 | BAMONTE ANTHONY | NYNEX Information Resources Company |
| | BAMONTE S RESTMT | NYNEX Information Resources Company |
| 1980 | BAMONTE S RESTRNT | New York Telephone |
| | BAMONTE ANTHONY | New York Telephone |
| 1976 | MURANO PHILIP | New York Telephone |
| | BAMONTE ANTHONY | New York Telephone |
| | BAMONTE S RESTRNT | New York Telephone |
| 1973 | MURANO Philip | New York Telephone |
| | Bamonte Anthony | New York Telephone |
| | Bamontes Restrnt | New York Telephone |
| 1970 | Murano Philip | New York Telephone |
| | Bamonte Anthony | New York Telephone |
| | Bamonte`s Restrnt | New York Telephone |
| 1965 | Bamonte Anthony | New York Telephone |
| | Banontes Restrnt | New York Telephone |
| | Murano Philip | New York Telephone |
| 1960 | Bamonte Anthony | New York Telephone Company |
| | Bamontes Restrnt | New York Telephone Company |
| | BAMONTE S RESTRNT | New York Telephone |
| | BAMONTE ANTHONY | New York Telephone |
| 1949 | Bamonte Anthony | New York Telephone Company |
| 1945 | Withers Bar & Grill | New York Telephone Company |
| | Bamonte Anthony | New York Telephone Company |
| 1940 | Bamonte Anthony | New York Telephone Company |
| | Bamonte A bar grill | New York Telephone Company |
| 1934 | BAMONTE PASQUALE R | R. L. Polk & Co. |
| | BAMONTE ANTHONY HDW | R. L. Polk & Co. |
| | BAMONTE JOHN R | R. L. Polk & Co. |
| | BAMONTE ROSE H | R. L. Polk & Co. |
| 1928 | BAMONTE ANTHONY R | New York Telephone |
| | BAMONTE PASQUALE CGRS | 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 | Address Not Identified in Research Source |
|---|---|
| 11 Jackson Street | 1992, 1985, 1980, 1976, 1960, 1949, 1945, 1940, 1934, 1928 |

## 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 | Address Not Identified in Research Source |
|---|---|
| 1 Jackson Street | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 10 JACKSON ST | 2005, 2000, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 13 Jackson Street | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 15 JACKSON ST | 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 15 Jackson Street | 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 19 JACKSON ST | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 205 MECKER AVE | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 205 MEEKER | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 205 MEEKER AVE | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 207 MECKER AVE | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 207 MEEKER | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 207 MEEKER AVE | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934 |
| 207 MEEKER AVE | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 21 JACKSON st | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 32 Withers Street | No Years Found |
| 510 UNION | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 514 UNION | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940, 1934, 1928 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 519 UNION AVE | 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |
| 520 UNION AVE | 1970, 1949, 1945, 1934, 1928 |
| 520 Union Avenue | 1970, 1949, 1945, 1934, 1928 |
| 521 UNION AVE | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 522 UNION | 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928 |
| 524 UNION AVE | 1985, 1980, 1949, 1945, 1940, 1934, 1928 |
| 524 Union Avenue | 1985, 1980, 1949, 1945, 1940, 1934, 1928 |
| 526 Union Avenue | 2005, 2000, 1997, 1934, 1928 |
| 9 JACKSON ST | 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928 |

# APPENDIX E

# EDR RADIUS MAP REPORT

**11 Jackson Street, Brooklyn, NY**
11 Jackson Street
Brooklyn, NY 11211

Inquiry Number: 3239991.2s
January 16, 2012

# The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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## GEOCHECK ADDENDUM

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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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# 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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

11 JACKSON STREET
BROOKLYN, NY 11211

**COORDINATES**

| | |
|---|---|
| Latitude (North): | 40.7161000 - 40˚ 42' 57.96'' |
| Longitude (West): | 73.9513000 - 73˚ 57' 4.68'' |
| Universal Tranverse Mercator: | Zone 18 |
| UTM X (Meters): | 588577.8 |
| UTM Y (Meters): | 4507559.5 |
| Elevation: | 15 ft. above sea level |

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

| | |
|---|---|
| Target Property Map: | 40073-F8 BROOKLYN, NY |
| Most Recent Revision: | 1995 |

**AERIAL PHOTOGRAPHY IN THIS REPORT**

| | |
|---|---|
| Portions of Photo from: | 2009, 2010 |
| Source: | USDA |

**TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| LOT 47,TAXBLOCK 2741<br>11 JACKSON STREET<br>BROOKLYN, NY 11211 | E DESIGNATION | N/A |

# EXECUTIVE SUMMARY

**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 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
US INST CONTROL ..... Sites with Institutional Controls

***Federal ERNS list***

ERNS ..... Emergency Response Notification System

***State- and tribal - equivalent CERCLIS***

VAPOR REOPENED ..... Vapor Intrusion Legacy Site List

***State and tribal leaking storage tank lists***

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

CBS UST ..... Chemical Bulk Storage Database
MOSF UST ..... Major Oil Storage Facilities Database
MOSF AST ..... Major Oil Storage Facilities Database
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***

ENG CONTROLS ..... Registry of Engineering Controls

# EXECUTIVE SUMMARY

INST CONTROL ..... Registry of Institutional Controls
RES DECL ..... Restrictive Declarations Listing

***State and tribal voluntary cleanup sites***

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Voluntary Cleanup Agreements

***State and tribal Brownfields sites***

ERP ..... Environmental Restoration Program Listing
BROWNFIELDS ..... Brownfields Site List

**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
SWTIRE ..... Registered Waste Tire Storage & Facility List
SWRCY ..... Registered Recycling 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
US HIST CDL ..... National Clandestine Laboratory Register

***Local Lists of Registered Storage Tanks***

HIST AST ..... Historical Petroleum Bulk Storage Database

***Local Land Records***

LIENS 2 ..... CERCLA Lien Information
LUCIS ..... Land Use Control Information System

***Records of Emergency Release Reports***

HMIRS ..... Hazardous Materials Information Reporting System

***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
MINES ..... Mines Master Index File

# EXECUTIVE SUMMARY

| | |
|---|---|
| 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 |
| FINDS | Facility Index System/Facility Registry System |
| RAATS | RCRA Administrative Action Tracking System |
| UIC | Underground Injection Control Wells |
| NPDES | State Pollutant Discharge Elimination System |
| AIRS | Air Emissions Data |
| INDIAN RESERV | Indian Reservations |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| COAL ASH | Coal Ash Disposal Site Listing |
| FINANCIAL ASSURANCE | Financial Assurance Information Listing |
| COAL ASH DOE | Sleam-Electric Plan Operation Data |

**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 CERCLIS NFRAP site List*

CERC-NFRAP: 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/25/2011 has revealed that there are 2 CERC-NFRAP sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CITY BARREL & DRUM CO INC*** | ***421 MEEKER AVE*** | ***NE 1/4 - 1/2 (0.376 mi.)*** | ***AN164*** | ***584*** |
| ***SERVICE PLATING CO LTD*** | ***154 N 7TH ST*** | ***WNW 1/4 - 1/2 (0.385 mi.)*** | ***AO166*** | ***589*** |

# EXECUTIVE SUMMARY

***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 08/19/2011 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***RADIAC RESEARCH CORP*** | ***33 S FIRST ST*** | ***W 1/2 - 1 (0.750 mi.)*** | ***187*** | ***678*** |

***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 06/15/2011 has revealed that there are 5 RCRA-LQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| 261 DEVELOPMENT GROUP | 261 N 9TH ST | WNW 1/8 - 1/4 (0.128 mi.) | O60 | 164 |
| NYCT - LORIMER STREET STATION | LORIMER ST & METROPOLIT | SE 1/8 - 1/4 (0.173 mi.) | V86 | 274 |
| CON EDISON - MANHOLE 11 | AINSLIE STREET & RODNEY | SSW 1/8 - 1/4 (0.235 mi.) | AI139 | 504 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BAYARD HOUSE, LLC | 60-64 BAYARD ST | NNE 1/8 - 1/4 (0.216 mi.) | AC120 | 413 |
| CON EDISON - AINSLIE SUBSTATIO | 34-50 AINSLIE ST | SSW 1/8 - 1/4 (0.237 mi.) | AK148 | 551 |

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 06/15/2011 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***544 UNION OWNER, LLC*** | ***544 UNION AVE*** | ***NNW 0 - 1/8 (0.076 mi.)*** | ***F26*** | ***76*** |
| METRO CLEANERS | 568 METROPOLITAN AVE | SSE 1/8 - 1/4 (0.156 mi.) | R75 | 252 |
| ***S F A LEINOFF INC*** | ***417 UNION AVE*** | ***S 1/8 - 1/4 (0.231 mi.)*** | ***AH132*** | ***470*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***NYCT - METROPOLITAN AVE STATIO*** | ***METROPOLITAN AVE & UNIO*** | ***S 1/8 - 1/4 (0.141 mi.)*** | ***Q68*** | ***215*** |
| ***MCCAREN MEWS LLC*** | ***204 N 11TH ST*** | ***NNW 1/8 - 1/4 (0.231 mi.)*** | ***AG129*** | ***444*** |

# 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 06/15/2011 has revealed that there are 4 RCRA-CESQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CON EDISON | AINSLIE ST & RODNEY ST | SSW 1/8 - 1/4 (0.235 mi.) | AI138 | 503 |
| CON EDISON | AINSLIE ST & RODNEY ST | SSW 1/8 - 1/4 (0.235 mi.) | AI140 | 506 |
| ***BROTHERS CLEANERS*** | ***106 ROEBLING ST*** | ***W 1/8 - 1/4 (0.236 mi.)*** | ***142*** | ***509*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CON EDISON | LORIMER ST & BAYARD ST | NNE 1/8 - 1/4 (0.208 mi.) | AC113 | 372 |

***State- and tribal - equivalent CERCLIS***

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 SHWS list, as provided by EDR, and dated 11/22/2011 has revealed that there are 6 SHWS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BQE/ANSBACHER COLOR & DYE FACT | MEEKER AVENUE | SW 1/8 - 1/4 (0.156 mi.) | S76 | 254 |
| Class Code: Does not present a significant threat to the public health or the environment - action may be deferred. | | | | |
| FORMER KLINK COSMO CLEANERS | 364 RICHARDSON STREET | ENE 1/2 - 1 (0.793 mi.) | 188 | 738 |
| Class Code: Significant threat to the public health or environment - action required. | | | | |
| ACME STEEL/METAL WORKS | 95 LOMBARDY STREET | ENE 1/2 - 1 (0.872 mi.) | 189 | 740 |
| Class Code: Significant threat to the public health or environment - action required. | | | | |
| FORMER SPIC AND SPAN CLEANERS | 315 KINGSLAND AVENUE | NNE 1/2 - 1 (0.919 mi.) | 191 | 742 |
| Class Code: Significant threat to the public health or environment - action required. | | | | |
| ACME STEEL/BRASS FOUNDRY | 72 ANTHONY STREET | ENE 1/2 - 1 (0.964 mi.) | 192 | 744 |
| Class Code: Significant threat to the public health or environment - action required. | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| K - WILLIAMSBURG WORKS | KENT AVE & 12TH STREET | NW 1/2 - 1 (0.621 mi.) | 186 | 676 |

# EXECUTIVE SUMMARY

***State and tribal landfill and/or solid waste disposal site lists***

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 SWF/LF list, as provided by EDR, and dated 10/11/2011 has revealed that there is 1 SWF/LF site  within approximately  0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| NATIONAL PAPER STOCK; INC. | 136 NORTH 10TH STREET | NW 1/4 - 1/2 (0.398 mi.) | 168 | 604 |

***State and tribal leaking storage tank lists***

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 LTANKS list, as provided by EDR, and dated 11/22/2011 has revealed that there are 36 LTANKS sites within approximately  0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MEEKER DISCOUNT MUFFLERS*** Date Closed: 8/5/2010 | ***64 FROST ST*** | ***NE 1/8 - 1/4 (0.136 mi.)*** | ***N62*** | ***178*** |
| ***68 RICHARDSON STREET*** Date Closed: 6/11/2001 | ***68 RICHARDSON STREET*** | ***NNE 1/8 - 1/4 (0.188 mi.)*** | ***X92*** | ***288*** |
| ***UNICO GAS STATION*** Date Closed: 10/7/2005 | ***445 METROPOLITIAN AVE*** | ***SW 1/8 - 1/4 (0.190 mi.)*** | ***Z98*** | ***319*** |
| ***UNKNOWN GAS STATION*** Date Closed: 10/25/2005 | ***2 ROBLING ST*** | ***NNW 1/8 - 1/4 (0.195 mi.)*** | ***103*** | ***336*** |
| ***COOPER PARK*** Date Closed: 3/29/1996 | ***295 JACKSON ST*** | ***E 1/8 - 1/4 (0.197 mi.)*** | ***104*** | ***338*** |
| ***ENGINE COMPANY 229*** | ***75 RICHARDSON ST*** | ***NE 1/8 - 1/4 (0.201 mi.)*** | ***X105*** | ***341*** |
| GAS STATION Date Closed: 12/16/2003 | 392 LEONARD STREET | NE 1/8 - 1/4 (0.217 mi.) | AB122 | 417 |
| ***S/W COR METROPOLITAN/MARC*** Date Closed: 7/20/2007 | ***S/W COR METROPOLITAN/MA*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ143*** | ***519*** |
| ***402 METROPOLITAN AVE.*** Date Closed: 5/4/1995 | ***402 METROPOLITAN AVE*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ146*** | ***546*** |
| ***402 METROPOLITAN AV/BKLYN*** Date Closed: 5/4/1995 | ***402 METROPOLITAN AVENUE*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ147*** | ***549*** |
| ***Not reported*** Date Closed: 12/12/2003 | ***179 N 6TH STREET*** | ***W 1/4 - 1/2 (0.313 mi.)*** | ***AM156*** | ***569*** |
| ***MARTIN GURSHON*** Date Closed: 11/20/2009 | ***179 NORTH 6TH STREET*** | ***W 1/4 - 1/2 (0.313 mi.)*** | ***AM157*** | ***571*** |
| WINTER RESIDENCE Date Closed: 5/10/2007 | 167 N. 9TH ST | NW 1/4 - 1/2 (0.318 mi.) | 158 | 574 |
| ST VINCENT DEPAUL CHURCH Date Closed: 12/21/2005 | 167 N. 6TH ST | W 1/4 - 1/2 (0.352 mi.) | 159 | 576 |

# EXECUTIVE SUMMARY

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| 187 BEDFORD AVE | 187 BEDFORD AVENUE | WNW 1/4 - 1/2 (0.360 mi.) | 160 | 577 |
| F N W MECHANICAL<br>Date Closed: 11/13/2006 | 139 NORTH 10TH STREET | NW 1/4 - 1/2 (0.370 mi.) | 161 | 578 |
| ***154-158 NORTH 7TH ST/BKLY***<br>Date Closed: 6/18/2008 | ***154-158 NORTH 7TH STREE*** | ***WNW 1/4 - 1/2 (0.385 mi.)*** | ***AO165*** | ***586*** |
| UNITED AMBULETTE<br>Date Closed: 5/3/2005 | 495 GRAHAM AVE | NE 1/4 - 1/2 (0.397 mi.) | 167 | 602 |
| ***55 ECKFORD ST.***<br>Date Closed: 3/31/1993 | ***55 ECKFORD ST.*** | ***NNE 1/4 - 1/2 (0.423 mi.)*** | ***169*** | ***605*** |
| BRUMAR SHEET METAL INC<br>Date Closed: 9/26/2006 | 498 LEONARD STREET | NNE 1/4 - 1/2 (0.433 mi.) | 171 | 619 |
| APARTMENT BUILDING<br>Date Closed: 11/17/2006 | 278 SOUTH 2ND ST | SW 1/4 - 1/2 (0.440 mi.) | AP172 | 621 |
| ***273 SOUTH SECOND STREET***<br>Date Closed: 4/4/2005 | ***273 SOUTH SECOND STREET*** | ***SW 1/4 - 1/2 (0.440 mi.)*** | ***AP173*** | ***624*** |
| ***274 SOUTH 2ND ST***<br>Date Closed: 10/29/1996 | ***274 SOUTH 2ND ST*** | ***SW 1/4 - 1/2 (0.442 mi.)*** | ***AP174*** | ***626*** |
| APARTMENT BUILDING<br>Date Closed: 11/17/2006 | 265 SOUTH 2ND ST | SW 1/4 - 1/2 (0.445 mi.) | AP175 | 629 |
| ***MOBIL S/S #17-FX9*** | ***550 HUMBOLDT STREET*** | ***NE 1/4 - 1/2 (0.468 mi.)*** | ***176*** | ***632*** |
| ***WILLIAMSBURG -NYCHA***<br>Date Closed: 4/27/1995 | ***128 MAUJER STREET*** | ***SE 1/4 - 1/2 (0.491 mi.)*** | ***AQ178*** | ***640*** |
| ***WILLIAMSBURG HOUSES***<br>Date Closed: 3/23/1994 | ***128 MAUJER STREET*** | ***SE 1/4 - 1/2 (0.491 mi.)*** | ***AQ179*** | ***643*** |
| ***SHELL***<br>Date Closed: 4/30/1991 | ***2 BUSHWICK AVENUE*** | ***ESE 1/4 - 1/2 (0.493 mi.)*** | ***AR180*** | ***657*** |
| ***COMMERCIAL BUILDING***<br>Date Closed: 6/21/2005 | ***93 NORTH 9TH STREET*** | ***NW 1/4 - 1/2 (0.494 mi.)*** | ***AS182*** | ***669*** |
| CARING COMMUNITIES<br>Date Closed: 8/25/2006 | 157 GRAHAM AVE | SE 1/4 - 1/2 (0.494 mi.) | 183 | 671 |
| ***METROPOLITAN AVE/MERRIT***<br>Date Closed: 7/10/1989 | ***METROPOLITAN&BUSHWICK A*** | ***ESE 1/4 - 1/2 (0.498 mi.)*** | ***AR185*** | ***674*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***522 METROPOLITAN AVE***<br>Date Closed: 2/24/2003 | ***522 METROPOLITAN AVE*** | ***S 1/8 - 1/4 (0.142 mi.)*** | ***Q70*** | ***231*** |
| STREET<br>Date Closed: 1/6/2005 | HOPE STREET AND RODNEY | SSW 1/4 - 1/2 (0.285 mi.) | AL154 | 566 |
| STREET SPILL<br>Date Closed: 1/6/2005 | HOPE STREET AND RODNEY | SSW 1/4 - 1/2 (0.285 mi.) | AL155 | 567 |
| ***PS 610***<br>Date Closed: 3/22/2011<br>Date Closed: 3/21/2005 | ***50 BEDFORD AVE*** | ***NNW 1/4 - 1/2 (0.427 mi.)*** | ***170*** | ***609*** |
| ***NASH METALWARE CO.***<br>Date Closed: 5/11/2009 | ***1 NASSAU AVE.*** | ***NNW 1/4 - 1/2 (0.476 mi.)*** | ***177*** | ***637*** |

# EXECUTIVE SUMMARY

HIST LTANKS: 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.

A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 23 HIST LTANKS sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MEEKER DISCOUNT MUFFLERS***<br>Date Closed: / / | ***64 FROST ST*** | ***NE 1/8 - 1/4 (0.136 mi.)*** | ***N62*** | ***178*** |
| ***68 RICHARDSON STREET***<br>Date Closed: 06/11/01 | ***68 RICHARDSON STREET*** | ***NNE 1/8 - 1/4 (0.188 mi.)*** | ***X92*** | ***288*** |
| ***UNICO GAS STATION***<br>Date Closed: / / | ***445 METROPOLITIAN AVE*** | ***SW 1/8 - 1/4 (0.190 mi.)*** | ***Z98*** | ***319*** |
| ***UNKNOWN GAS STATION***<br>Date Closed: / / | ***2 ROBLING ST*** | ***NNW 1/8 - 1/4 (0.195 mi.)*** | ***103*** | ***336*** |
| ***COOPER PARK***<br>Date Closed: 03/29/96 | ***295 JACKSON ST*** | ***E 1/8 - 1/4 (0.197 mi.)*** | ***104*** | ***338*** |
| ***ENGINE COMPANY 229***<br>Date Closed: / / | ***75 RICHARDSON ST*** | ***NE 1/8 - 1/4 (0.201 mi.)*** | ***X105*** | ***341*** |
| ***S/W COR METROPOLITAN/MARC***<br>Date Closed: / / | ***S/W COR METROPOLITAN/MA*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ143*** | ***519*** |
| ***402 METROPOLITAN AVE.***<br>Date Closed: 05/04/95 | ***402 METROPOLITAN AVE*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ146*** | ***546*** |
| ***402 METROPOLITAN AV/BKLYN***<br>Date Closed: 05/04/95 | ***402 METROPOLITAN AVENUE*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ147*** | ***549*** |
| ***Not reported***<br>Date Closed: / / | ***179 N 6TH STREET*** | ***W 1/4 - 1/2 (0.313 mi.)*** | ***AM156*** | ***569*** |
| ***154-158 NORTH 7TH ST/BKLY***<br>Date Closed: / / | ***154-158 NORTH 7TH STREE*** | ***WNW 1/4 - 1/2 (0.385 mi.)*** | ***AO165*** | ***586*** |
| ***55 ECKFORD ST.***<br>Date Closed: 03/31/93 | ***55 ECKFORD ST.*** | ***NNE 1/4 - 1/2 (0.423 mi.)*** | ***169*** | ***605*** |
| ***273 SOUTH SECOND STREET***<br>Date Closed: / / | ***273 SOUTH SECOND STREET*** | ***SW 1/4 - 1/2 (0.440 mi.)*** | ***AP173*** | ***624*** |
| ***274 SOUTH 2ND ST***<br>Date Closed: 10/29/96 | ***274 SOUTH 2ND ST*** | ***SW 1/4 - 1/2 (0.442 mi.)*** | ***AP174*** | ***626*** |
| ***MOBIL S/S #17-FX9***<br>Date Closed: / / | ***550 HUMBOLDT STREET*** | ***NE 1/4 - 1/2 (0.468 mi.)*** | ***176*** | ***632*** |
| ***WILLIAMSBURG -NYCHA***<br>Date Closed: 04/27/95 | ***128 MAUJER STREET*** | ***SE 1/4 - 1/2 (0.491 mi.)*** | ***AQ178*** | ***640*** |
| ***WILLIAMSBURG HOUSES***<br>Date Closed: / /<br>Date Closed: 03/23/94 | ***128 MAUJER STREET*** | ***SE 1/4 - 1/2 (0.491 mi.)*** | ***AQ179*** | ***643*** |
| ***SHELL***<br>Date Closed: 04/30/91 | ***2 BUSHWICK AVENUE*** | ***ESE 1/4 - 1/2 (0.493 mi.)*** | ***AR180*** | ***657*** |
| ***Not reported***<br>Date Closed: / / | ***93 NORTH 9TH ST*** | ***NW 1/4 - 1/2 (0.494 mi.)*** | ***AS181*** | ***666*** |
| ***COMMERCIAL BUILDING***<br>Date Closed: / / | ***93 NORTH 9TH STREET*** | ***NW 1/4 - 1/2 (0.494 mi.)*** | ***AS182*** | ***669*** |

# EXECUTIVE SUMMARY

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***METROPOLITAN AVE/MERRIT*** Date Closed: 07/10/89 | ***METROPOLITAN&BUSHWICK*** | ***ESE 1/4 - 1/2 (0.498 mi.)*** | ***AR185*** | ***674*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***522 METROPOLITAN AVE*** Date Closed: / / | ***522 METROPOLITAN AVE*** | ***S 1/8 - 1/4 (0.142 mi.)*** | ***Q70*** | ***231*** |
| ***PS 610*** Date Closed: / / | ***50 BEDFORD AVE*** | ***NNW 1/4 - 1/2 (0.427 mi.)*** | ***170*** | ***609*** |

***State and tribal registered storage tank lists***

TANKS: 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.

A review of the TANKS list, as provided by EDR, and dated 10/04/2011 has revealed that there is 1 TANKS site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MOBILE SYSTEMS UNIT | 75 FROST STREET | NE 1/8 - 1/4 (0.160 mi.) | U78 | 258 |

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 UST list, as provided by EDR, and dated 11/11/2011 has revealed that there are 23 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MEECO CORP*** | ***243 MEEKER AVENUE*** | ***ENE 0 - 1/8 (0.031 mi.)*** | ***A2*** | ***8*** |
| 544 UNION OWNER LLC | 544 UNION AVENUE | NNW 0 - 1/8 (0.076 mi.) | F27 | 81 |
| 568-580 UNION AVENUE | 568-580 UNION AVENUE | NNW 0 - 1/8 (0.101 mi.) | K44 | 116 |
| ***64 FROST ST.*** | ***64 FROST STREET*** | ***NE 1/8 - 1/4 (0.136 mi.)*** | ***N64*** | ***189*** |
| ROEBLING VIEW NORTH, LLC | 5 ROEBLING STREET | NNW 1/8 - 1/4 (0.176 mi.) | W90 | 282 |
| ***68-70 RICHARDSON STREET CO.*** | ***68-70 RICHARDSON STREET*** | ***NNE 1/8 - 1/4 (0.188 mi.)*** | ***X93*** | ***290*** |
| JOE'S AUTO REPAIR CORNER INC. | 445 METROPOLITAN AVENUE | SW 1/8 - 1/4 (0.190 mi.) | Z97 | 313 |
| FDNY ENGINE 229 / LADDER 146 | 75 RICHARDSON STREET | NE 1/8 - 1/4 (0.201 mi.) | X107 | 352 |
| ***UNION REPAIR CORP.*** | ***433-447 UNION AVENUE*** | ***S 1/8 - 1/4 (0.205 mi.)*** | ***AA111*** | ***362*** |
| ***278 FUEL STOP, INC.*** | ***392 LEONARD STREET*** | ***NE 1/8 - 1/4 (0.217 mi.)*** | ***AB123*** | ***419*** |
| ***D L BRENNER & SONS INC*** | ***407 LEONARD ST*** | ***NE 1/8 - 1/4 (0.230 mi.)*** | ***AF128*** | ***437*** |
| ***RIVER CREEK REALTY*** | ***417 UNION AVENUE*** | ***S 1/8 - 1/4 (0.231 mi.)*** | ***AH133*** | ***491*** |
| WING HON HOLDING | 212-218 NORTH 9TH STREE | NW 1/8 - 1/4 (0.233 mi.) | 134 | 495 |
| ***ALSEAL ISED CAR SALES INC.*** | ***402 METROPOLITAN AVE*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ144*** | ***526*** |
| ISRAEL M DOLGIN ASSOC | 101 RICHARDSON STREET | NE 1/8 - 1/4 (0.239 mi.) | 153 | 564 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***OUR LADY OF MOUNT CARMEL R.C.*** | ***11-23 HAVEMEYER STREET*** | ***W 0 - 1/8 (0.086 mi.)*** | ***32*** | ***92*** |
| WING HON HOLDING, INC. | 237-243 NORTH 9TH STREE | WNW 1/8 - 1/4 (0.158 mi.) | T77 | 256 |
| ***FREMRO SERVICES INC.*** | ***447 UNION AVENUE*** | ***S 1/8 - 1/4 (0.160 mi.)*** | ***Q81*** | ***263*** |

# EXECUTIVE SUMMARY

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***238 NORTH 9TH STREET REALTY CO*** | ***238 NORTH 9TH STREET*** | ***WNW 1/8 - 1/4 (0.163 mi.)*** | ***T82*** | ***267*** |
| HARRY VAN ARSDALE HS | 257 NORTH 6TH STREET | WSW 1/8 - 1/4 (0.190 mi.) | Y95 | 296 |
| ***BAYARD PROPERTIES*** | ***735 LORIMER STREET*** | ***NNE 1/8 - 1/4 (0.202 mi.)*** | ***AC110*** | ***359*** |
| ***468/78 RODNEY STREET*** | ***468 RODNEY STREET*** | ***SSW 1/8 - 1/4 (0.211 mi.)*** | ***AD117*** | ***388*** |
| MC CAREN PARK MEWS, LLC | 204 NORTH 11TH STREET | NNW 1/8 - 1/4 (0.231 mi.) | AG130 | 454 |

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 AST list, as provided by EDR, and dated 11/11/2011 has revealed that there are 13 AST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MEECO CORP*** | ***243 MEEKER AVENUE*** | ***ENE 0 - 1/8 (0.031 mi.)*** | ***A2*** | ***8*** |
| ***J. TUOMEY TRUCK REPAIR*** | ***5 ROEBLING STREET*** | ***NNW 1/8 - 1/4 (0.176 mi.)*** | ***W89*** | ***278*** |
| ***DEPALMA TEDONE*** | ***597 METROPOLITAN AVENUE*** | ***SE 1/8 - 1/4 (0.181 mi.)*** | ***V91*** | ***284*** |
| JOE'S AUTO REPAIR CORNER INC. | 445 METROPOLITAN AVENUE | SW 1/8 - 1/4 (0.190 mi.) | Z100 | 327 |
| ***FDNY ENGINE 229 / LADDER 146*** | ***75 RICHARDSON STREET*** | ***NE 1/8 - 1/4 (0.201 mi.)*** | ***X106*** | ***347*** |
| ALL BORO | 391 LEONARD STREET | NE 1/8 - 1/4 (0.202 mi.) | AB109 | 356 |
| ***UNION REPAIR CORP.*** | ***433-447 UNION AVENUE*** | ***S 1/8 - 1/4 (0.205 mi.)*** | ***AA111*** | ***362*** |
| SANG REALTY INC. | 250 NORTH 6TH STREET | WSW 1/8 - 1/4 (0.212 mi.) | 118 | 398 |
| A-I AUTO REPAIRS INC. | 392 LEONARD STREET | NE 1/8 - 1/4 (0.217 mi.) | AB121 | 415 |
| AISEAL USED CAR SALES INC. | 402-418 METROPOLITAN AV | SW 1/8 - 1/4 (0.236 mi.) | AJ145 | 544 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***STAR SOAP CANDLE CO*** | ***304 NORTH 7TH ST*** | ***WSW 1/8 - 1/4 (0.136 mi.)*** | ***65*** | ***200*** |
| 524 METROPOLITAN AVE | 524 METROPOLITAN AVENUE | S 1/8 - 1/4 (0.142 mi.) | Q69 | 228 |
| ***475 KEAP STREET*** | ***475 KEAP STREET*** | ***SSW 1/8 - 1/4 (0.211 mi.)*** | ***AD116*** | ***385*** |

CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 CBS AST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***ROBINSON BROS. INDUSTRIES, COR*** | ***215 NORTH 10TH ST.*** | ***NW 1/8 - 1/4 (0.192 mi.)*** | ***101*** | ***331*** |

CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the CBS list, as provided by EDR, and dated 11/11/2011 has revealed that there is 1 CBS site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***ROBINSON BROS. INDUSTRIES, COR*** | ***215 NORTH 10TH ST.*** | ***NW 1/8 - 1/4 (0.192 mi.)*** | ***101*** | ***331*** |

# EXECUTIVE SUMMARY

## ADDITIONAL ENVIRONMENTAL RECORDS

### *Local Lists of Hazardous waste / Contaminated Sites*

DEL SHWS: A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

A review of the DEL SHWS list, as provided by EDR, and dated 08/23/2011 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CITY BARREL CO. | 421-429 MEEKER STREET | NE 1/4 - 1/2 (0.376 mi.) | AN162 | 580 |

### *Local Lists of Registered Storage Tanks*

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 HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 17 HIST UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MEECO CORP*** | ***243 MEEKER AVENUE*** | ***ENE 0 - 1/8 (0.031 mi.)*** | ***A2*** | ***8*** |
| ***64 FROST ST.*** | ***64 FROST STREET*** | ***NE 1/8 - 1/4 (0.136 mi.)*** | ***N64*** | ***189*** |
| MOBILE SYSTEMS UNIT | 75 FROST ST | NE 1/8 - 1/4 (0.160 mi.) | U79 | 259 |
| ***68-70 RICHARDSON STREET CO.*** | ***68-70 RICHARDSON STREET*** | ***NNE 1/8 - 1/4 (0.188 mi.)*** | ***X93*** | ***290*** |
| JOE'S AUTO REPAIR CORNER INC. | 445 METROPOLITAN AVENUE | SW 1/8 - 1/4 (0.190 mi.) | Z99 | 322 |
| ***FDNY ENGINE 229 / LADDER 146*** | ***75 RICHARDSON STREET*** | ***NE 1/8 - 1/4 (0.201 mi.)*** | ***X106*** | ***347*** |
| GULF SERVICE STATION | 433 UNION AVENUE | S 1/8 - 1/4 (0.205 mi.) | AA112 | 369 |
| ***278 FUEL STOP, INC.*** | ***392 LEONARD STREET*** | ***NE 1/8 - 1/4 (0.217 mi.)*** | ***AB123*** | ***419*** |
| ***D L BRENNER & SONS INC*** | ***407 LEONARD ST*** | ***NE 1/8 - 1/4 (0.230 mi.)*** | ***AF128*** | ***437*** |
| ***RIVER CREEK REALTY*** | ***417 UNION AVENUE*** | ***S 1/8 - 1/4 (0.231 mi.)*** | ***AH133*** | ***491*** |
| ***ALSEAL ISED CAR SALES INC.*** | ***402 METROPOLITAN AVE*** | ***SW 1/8 - 1/4 (0.236 mi.)*** | ***AJ144*** | ***526*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***OUR LADY OF MOUNT CARMEL R.C.*** | ***11-23 HAVEMEYER STREET*** | ***W 0 - 1/8 (0.086 mi.)*** | ***32*** | ***92*** |
| ***FREMRO SERVICES INC.*** | ***447 UNION AVENUE*** | ***S 1/8 - 1/4 (0.160 mi.)*** | ***Q81*** | ***263*** |
| ***238 NORTH 9TH STREET REALTY CO*** | ***238 NORTH 9TH STREET*** | ***WNW 1/8 - 1/4 (0.163 mi.)*** | ***T82*** | ***267*** |
| H. VAN ARSDALE H. S. - K650 | 257 NORTH 6TH STREET | WSW 1/8 - 1/4 (0.190 mi.) | Y94 | 294 |
| ***BAYARD PROPERTIES*** | ***735 LORIMER STREET*** | ***NNE 1/8 - 1/4 (0.202 mi.)*** | ***AC110*** | ***359*** |
| ***468/78 RODNEY STREET*** | ***468 RODNEY STREET*** | ***SSW 1/8 - 1/4 (0.211 mi.)*** | ***AD117*** | ***388*** |

### *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 11/22/2011 has revealed that there are

# EXECUTIVE SUMMARY

12 NY Spills sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***AMOCO STATION*** Date Closed: 2/11/2009 Date Closed: 10/17/1997 | ***243 MEEKER AVE*** | ***ENE 0 - 1/8 (0.031 mi.)*** | ***A3*** | ***29*** |
| ***Not reported*** Date Closed: 12/22/1998 | ***526 UNION AV*** | ***W 0 - 1/8 (0.035 mi.)*** | ***B4*** | ***34*** |
| ***MANHOLE 4925*** Date Closed: 3/29/2002 | ***WITHERS ST/UNION AV*** | ***NW 0 - 1/8 (0.055 mi.)*** | ***C17*** | ***59*** |
| ***MANHOLE 53375*** Date Closed: 12/8/1999 | ***WITHERS ST/ UNION AVE*** | ***NW 0 - 1/8 (0.055 mi.)*** | ***C18*** | ***61*** |
| ***30 SKILLMAN AVE*** Date Closed: 4/21/1992 | ***30 SKILLMAN AVE*** | ***SE 0 - 1/8 (0.071 mi.)*** | ***G21*** | ***67*** |
| CONSTRUCTION/EXCAVATION SITE Date Closed: 1/25/2010 | 568 UNION AVENUE | NNW 0 - 1/8 (0.101 mi.) | K45 | 118 |
| RESIDENCE Date Closed: 2/18/2009 | 684 LORIMER ST | NE 0 - 1/8 (0.116 mi.) | N54 | 137 |
| ***ZORRIANO ASSOCIATES*** | ***568 A UNION STREET*** | ***NNW 0 - 1/8 (0.118 mi.)*** | ***K55*** | ***140*** |
| ***66 JACKSON STREET*** Date Closed: 4/27/1994 | ***66 JACKSON STREET*** | ***E 0 - 1/8 (0.119 mi.)*** | ***M56*** | ***142*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MANHOLE 4930*** Date Closed: 3/27/2002 | ***UNION AVE/JACKSON ST*** | ***WSW 0 - 1/8 (0.035 mi.)*** | ***B6*** | ***38*** |
| IN STREET Date Closed: 3/13/2007 | MEEKER AVE/ UNION AVE | SSW 0 - 1/8 (0.079 mi.) | H29 | 85 |
| ***MANHOLE 16282*** Date Closed: 5/18/2000 | ***IFO 288 NO 8TH ST*** | ***W 0 - 1/8 (0.097 mi.)*** | ***J41*** | ***110*** |

NY Hist Spills: 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.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 9 NY Hist Spills sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***AMOCO STATION*** | ***243 MEEKER AVE*** | ***ENE 0 - 1/8 (0.031 mi.)*** | ***A3*** | ***29*** |
| ***Not reported*** | ***526 UNION AV*** | ***W 0 - 1/8 (0.035 mi.)*** | ***B4*** | ***34*** |
| ***MANHOLE 4925*** | ***WITHERS ST/UNION AV*** | ***NW 0 - 1/8 (0.055 mi.)*** | ***C17*** | ***59*** |
| ***MANHOLE 53375*** | ***WITHERS ST/ UNION AVE*** | ***NW 0 - 1/8 (0.055 mi.)*** | ***C18*** | ***61*** |
| ***30 SKILLMAN AVE*** | ***30 SKILLMAN AVE*** | ***SE 0 - 1/8 (0.071 mi.)*** | ***G21*** | ***67*** |
| ***ZORRIANO ASSOCIATES*** | ***568 A UNION STREET*** | ***NNW 0 - 1/8 (0.118 mi.)*** | ***K55*** | ***140*** |
| ***66 JACKSON STREET*** | ***66 JACKSON STREET*** | ***E 0 - 1/8 (0.119 mi.)*** | ***M56*** | ***142*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MANHOLE 4930*** | ***UNION AVE/JACKSON ST*** | ***WSW 0 - 1/8 (0.035 mi.)*** | ***B6*** | ***38*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| *MANHOLE 16282* | *IFO 288 NO 8TH ST* | *W 0 - 1/8 (0.097 mi.)* | *J41* | *110* |

***Other Ascertainable Records***

RCRA-NonGen: 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 list, as provided by EDR, and dated 06/15/2011 has revealed that there are 21 RCRA-NonGen sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| *GREENE LIGHTING FIXTURES INC* | *40 WITHERS ST* | *N 0 - 1/8 (0.044 mi.)* | *E13* | *50* |
| *P & G PHOTO ENGRAVING CO INC* | *17 FROST ST* | *N 0 - 1/8 (0.095 mi.)* | *I38* | *103* |
| *NYSDOT BQE PROJECT* | *MEEKER & LORIMER ST* | *ENE 0 - 1/8 (0.124 mi.)* | *58* | *146* |
| *SERVICE STATION* | *64 FROST ST* | *NE 1/8 - 1/4 (0.136 mi.)* | *N63* | *187* |
| *TOP HAT CLEANERS* | *592 LORIMER ST* | *SE 1/8 - 1/4 (0.138 mi.)* | *P66* | *203* |
| *S KLENOSKY INC* | *543 METROPOLITAN AVE* | *S 1/8 - 1/4 (0.142 mi.)* | *71* | *233* |
| *CON EDISON MANHOLE 61602* | *MEEKER AVE & N 6TH ST* | *SW 1/8 - 1/4 (0.170 mi.)* | *S84* | *272* |
| *CON EDISON MANHOLE 61602* | *MEEKER AVE 49 FEET N OF* | *SW 1/8 - 1/4 (0.170 mi.)* | *S85* | *273* |
| *NYC FIRE DEPT ENGINE CO 229* | *75 RICHARDSON ST* | *NE 1/8 - 1/4 (0.201 mi.)* | *X108* | *355* |
| CON EDISON MANHOLE 64805 | MEEKER AVE AND FROST ST | ENE 1/8 - 1/4 (0.224 mi.) | AE124 | 430 |
| *GRAF AIR PROPERTY* | *407 LEONARD ST* | *NE 1/8 - 1/4 (0.230 mi.)* | *AF127* | *435* |
| *CON ED-MH 139* | *ANISLIE ST & RODNEY ST* | *SSW 1/8 - 1/4 (0.235 mi.)* | *AI135* | *497* |
| *CON ED - MH 136* | *AINSLIE ST & RODNEY ST* | *SSW 1/8 - 1/4 (0.235 mi.)* | *AI137* | *501* |
| *CON ED - M/H 135* | *RODNEY ST & ANSLIE ST* | *SSW 1/8 - 1/4 (0.235 mi.)* | *AI141* | *507* |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| *PURITAN LIGHTING FIXTURE CO* | *255 N 7TH ST* | *W 1/8 - 1/4 (0.164 mi.)* | *83* | *270* |
| *NYC BD OF ED - H VAN ARSDALE H* | *257 N 6TH ST* | *WSW 1/8 - 1/4 (0.190 mi.)* | *Y96* | *298* |
| *SFA LEINOFF INC-475 KEAP ST* | *475 KEAP STREET* | *SSW 1/8 - 1/4 (0.211 mi.)* | *AD114* | *373* |
| *TOWNE HOUSE RESTORATIONS* | *475 KEAP ST - REAR ENTR* | *SSW 1/8 - 1/4 (0.211 mi.)* | *AD115* | *383* |
| *ADELPHIA CONTAINER CORP* | *206 N 10TH ST* | *NW 1/8 - 1/4 (0.228 mi.)* | *126* | *433* |
| CON EDISON - VAULT 3 | 34-50 AINSLIE ST | SSW 1/8 - 1/4 (0.237 mi.) | AK151 | 560 |
| *CON EDISON* | *34-50 AINSLIE ST* | *SSW 1/8 - 1/4 (0.237 mi.)* | *AK152* | *562* |

HSWDS: 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 latest version of the study 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 in the registry. So overtime they will be added to the registry or not.

A review of the HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there is 1

# EXECUTIVE SUMMARY

HSWDS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CITY BARREL | 421 MEEKER STREET | NE 1/4 - 1/2 (0.376 mi.) | AN163 | 582 |

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 11/01/2011 has revealed that there are 30 MANIFEST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***544 UNION OWNER, LLC*** | ***544 UNION AVE*** | ***NNW 0 - 1/8 (0.076 mi.)*** | ***F26*** | ***76*** |
| ***P & G PHOTO ENGRAVING CO INC*** | ***17 FROST ST*** | ***N 0 - 1/8 (0.095 mi.)*** | ***I38*** | ***103*** |
| ***NYSDOT BQE PROJECT*** | ***MEEKER & LORIMER ST*** | ***ENE 0 - 1/8 (0.124 mi.)*** | ***58*** | ***146*** |
| 261 DEVELOPMENT GROUP | 261 N 9TH ST | WNW 1/8 - 1/4 (0.128 mi.) | O61 | 165 |
| ***TOP HAT CLEANERS*** | ***592 LORIMER ST*** | ***SE 1/8 - 1/4 (0.138 mi.)*** | ***P66*** | ***203*** |
| ***S KLENOSKY INC*** | ***543 METROPOLITAN AVE*** | ***S 1/8 - 1/4 (0.142 mi.)*** | ***71*** | ***233*** |
| CONSOLIDATED EDISON | 512 METROPOLITAN & UNIO | SSW 1/8 - 1/4 (0.148 mi.) | 72 | 236 |
| CONSOLIDATED EDISON | 564 METROPOLITAN AVE - | SSE 1/8 - 1/4 (0.153 mi.) | R73 | 237 |
| ***METROPOLITAN CLEANERS*** | ***568 METROPOLITAN AVE.*** | ***SSE 1/8 - 1/4 (0.156 mi.)*** | ***R74*** | ***239*** |
| NYCDEP | 75 FROST ST | NE 1/8 - 1/4 (0.160 mi.) | U80 | 261 |
| ***CON EDISON MANHOLE 61602*** | ***MEEKER AVE & N 6TH ST*** | ***SW 1/8 - 1/4 (0.170 mi.)*** | ***S84*** | ***272*** |
| ***CON EDISON MANHOLE 61602*** | ***MEEKER AVE 49 FEET N OF*** | ***SW 1/8 - 1/4 (0.170 mi.)*** | ***S85*** | ***273*** |
| NYNEX | LORIMER ST & METROPOLIT | SE 1/8 - 1/4 (0.173 mi.) | V87 | 276 |
| CONSOLIDATED EDISON | MH43243-UNION AVE & HEY | S 1/8 - 1/4 (0.193 mi.) | AA102 | 334 |
| CONSOLIDATED EDISON | MEEKER AVE AND FROST ST | ENE 1/8 - 1/4 (0.224 mi.) | AE125 | 431 |
| ***GRAF AIR PROPERTY*** | ***407 LEONARD ST*** | ***NE 1/8 - 1/4 (0.230 mi.)*** | ***AF127*** | ***435*** |
| ***S F A LEINOFF INC*** | ***417 UNION AVE*** | ***S 1/8 - 1/4 (0.231 mi.)*** | ***AH132*** | ***470*** |
| ***CON ED-MH 139*** | ***ANISLIE ST & RODNEY ST*** | ***SSW 1/8 - 1/4 (0.235 mi.)*** | ***AI135*** | ***497*** |
| CONSOLIDATED EDISON | AINSLIE STREET & RODNEY | SSW 1/8 - 1/4 (0.235 mi.) | AI136 | 499 |
| ***CON ED - MH 136*** | ***AINSLIE ST & RODNEY ST*** | ***SSW 1/8 - 1/4 (0.235 mi.)*** | ***AI137*** | ***501*** |
| ***CON ED - M/H 135*** | ***RODNEY ST & ANSLIE ST*** | ***SSW 1/8 - 1/4 (0.235 mi.)*** | ***AI141*** | ***507*** |
| ***BROTHERS CLEANERS*** | ***106 ROEBLING ST*** | ***W 1/8 - 1/4 (0.236 mi.)*** | ***142*** | ***509*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***NYCT - METROPOLITAN AVE STATIO*** | ***METROPOLITAN AVE & UNIO*** | ***S 1/8 - 1/4 (0.141 mi.)*** | ***Q68*** | ***215*** |
| ***NYC BD OF ED - H VAN ARSDALE H*** | ***257 N 6TH ST*** | ***WSW 1/8 - 1/4 (0.190 mi.)*** | ***Y96*** | ***298*** |
| ***SFA LEINOFF INC-475 KEAP ST*** | ***475 KEAP STREET*** | ***SSW 1/8 - 1/4 (0.211 mi.)*** | ***AD114*** | ***373*** |
| BAYARD HOUSE LLC | 60-64 BAYARD STREET | NNE 1/8 - 1/4 (0.216 mi.) | AC119 | 400 |
| ***MCCAREN MEWS LLC*** | ***204 N 11TH ST*** | ***NNW 1/8 - 1/4 (0.231 mi.)*** | ***AG129*** | ***444*** |
| ***CONED - AINSLIE SUBSTATION SIT*** | ***34-50 AINSLIE ST*** | ***SSW 1/8 - 1/4 (0.237 mi.)*** | ***AK149*** | ***553*** |
| CONSOLIDATED EDISON | 34 AINSLIE ST - MOAT | SSW 1/8 - 1/4 (0.237 mi.) | AK150 | 559 |
| ***CON EDISON*** | ***34-50 AINSLIE ST*** | ***SSW 1/8 - 1/4 (0.237 mi.)*** | ***AK152*** | ***562*** |

DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the DRYCLEANERS list, as provided by EDR, and dated 06/28/2011 has revealed that there are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| TOP HAT CLEANERS | 592 LORIMER STREET | SE 1/8 - 1/4 (0.138 mi.) | P67 | 214 |
| ***METROPOLITAN CLEANERS*** | ***568 METROPOLITAN AVE.*** | ***SSE 1/8 - 1/4 (0.156 mi.)*** | ***R74*** | ***239*** |

# EXECUTIVE SUMMARY

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 E DESIGNATION list, as provided by EDR, and dated 09/08/2011 has revealed that there are 37 E DESIGNATION sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| LOT 3,TAXBLOCK 2741 | 526 UNION AVENUE | W 0 - 1/8 (0.035 mi.) | B5 | 37 |
| LOT 14,TAXBLOCK 2315 | 525 UNION AVENUE | W 0 - 1/8 (0.037 mi.) | B7 | 41 |
| LOT 7,TAXBLOCK 2741 | 538 UNION AVENUE | NW 0 - 1/8 (0.038 mi.) | B8 | 42 |
| LOT 8,TAXBLOCK 2741 | UNION AVENUE | NW 0 - 1/8 (0.039 mi.) | C9 | 44 |
| LOT 13,TAXBLOCK 2741 | 32 WITHERS STREET | NNW 0 - 1/8 (0.043 mi.) | C10 | 46 |
| LOT 15,TAXBLOCK 2741 | 36 WITHERS STREET | N 0 - 1/8 (0.043 mi.) | C11 | 47 |
| LOT 48,TAXBLOCK 2736 | 29 WITHERS STREET | NNW 0 - 1/8 (0.046 mi.) | C14 | 52 |
| LOT 19,TAXBLOCK 2741 | 44 WITHERS STREET | NNE 0 - 1/8 (0.047 mi.) | E15 | 54 |
| LOT 19,TAXBLOCK 2307 | 555 UNION AVENUE | NW 0 - 1/8 (0.069 mi.) | F19 | 64 |
| LOT 42,TAXBLOCK 2746 | 31 SKILLMAN AVENUE | SE 0 - 1/8 (0.070 mi.) | G20 | 65 |
| LOT 41,TAXBLOCK 2746 | 33 SKILLMAN AVENUE | SE 0 - 1/8 (0.072 mi.) | G22 | 69 |
| LOT 40,TAXBLOCK 2746 | 35 SKILLMAN AVENUE | SE 0 - 1/8 (0.075 mi.) | G23 | 71 |
| LOT 1,TAXBLOCK 2736 | 544 UNION AVENUE | NNW 0 - 1/8 (0.076 mi.) | F25 | 74 |
| LOT 39,TAXBLOCK 2746 | 37 SKILLMAN AVENUE | SE 0 - 1/8 (0.077 mi.) | G28 | 84 |
| LOT 2,TAXBLOCK 2742 | 646 LORIMER STREET | E 0 - 1/8 (0.084 mi.) | 30 | 87 |
| LOT 9,TAXBLOCK 2736 | 18 FROST STREET | N 0 - 1/8 (0.093 mi.) | I33 | 95 |
| LOT 9,TAXBLOCK 2742 | 270 MEEKER AVENUE | ENE 0 - 1/8 (0.094 mi.) | 34 | 97 |
| LOT 45,TAXBLOCK 2731 | 13 FROST STREET | N 0 - 1/8 (0.095 mi.) | I35 | 98 |
| LOT 47,TAXBLOCK 2731 | 11 FROST STREET | NNW 0 - 1/8 (0.095 mi.) | I36 | 100 |
| LOT 44,TAXBLOCK 2731 | 17 FROST STREET | N 0 - 1/8 (0.095 mi.) | I37 | 101 |
| LOT 41,TAXBLOCK 2731 | 21 FROST STREET | N 0 - 1/8 (0.096 mi.) | I40 | 108 |
| LOT 38,TAXBLOCK 2731 | 23 FROST STREET | N 0 - 1/8 (0.097 mi.) | I42 | 112 |
| LOT 36,TAXBLOCK 2731 | 31 FROST STREET | NNE 0 - 1/8 (0.103 mi.) | L46 | 121 |
| LOT 20,TAXBLOCK 2736 | 36 FROST STREET | NNE 0 - 1/8 (0.104 mi.) | L47 | 122 |
| LOT 20,TAXBLOCK 2300 | 249 NORTH 10 STREET | NW 0 - 1/8 (0.105 mi.) | K48 | 125 |
| LOT 16,TAXBLOCK 2307 | 264 NORTH 10 STREET | NW 0 - 1/8 (0.105 mi.) | K49 | 127 |
| LOT 23,TAXBLOCK 2736 | 40 FROST STREET | NNE 0 - 1/8 (0.109 mi.) | L50 | 129 |
| LOT 35,TAXBLOCK 2731 | FROST STREET | NNE 0 - 1/8 (0.109 mi.) | L51 | 132 |
| LOT 35,TAXBLOCK 2742 | 59 JACKSON STREET | E 0 - 1/8 (0.110 mi.) | M52 | 133 |
| LOT 14,TAXBLOCK 2307 | 258 NORTH 10 STREET | NW 0 - 1/8 (0.115 mi.) | 53 | 135 |
| LOT 25,TAXBLOCK 2307 | 267 NORTH 9 STREET | WNW 0 - 1/8 (0.120 mi.) | O57 | 145 |
| LOT 1,TAXBLOCK 2731 | 580 UNION AVENUE | NNW 0 - 1/8 (0.125 mi.) | K59 | 162 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| LOT 21,TAXBLOCK 2315 | 503 UNION AVENUE | SW 0 - 1/8 (0.044 mi.) | D12 | 49 |
| LOT 5,TAXBLOCK 2751 | 486 UNION AVENUE | SW 0 - 1/8 (0.051 mi.) | D16 | 55 |
| LOT 4,TAXBLOCK 2751 | 482 UNION AVENUE | SSW 0 - 1/8 (0.085 mi.) | H31 | 88 |
| LOT 10,TAXBLOCK 2323 | 292 NORTH 8 STREET | W 0 - 1/8 (0.095 mi.) | J39 | 107 |
| LOT 9,TAXBLOCK 2323 | 286 NORTH 8 STREET | W 0 - 1/8 (0.098 mi.) | J43 | 114 |

**EDR PROPRIETARY RECORDS**

***EDR Proprietary Records***

# EXECUTIVE SUMMARY

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.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 3 Manufactured Gas Plants sites within approximately 1 mile of the target property.

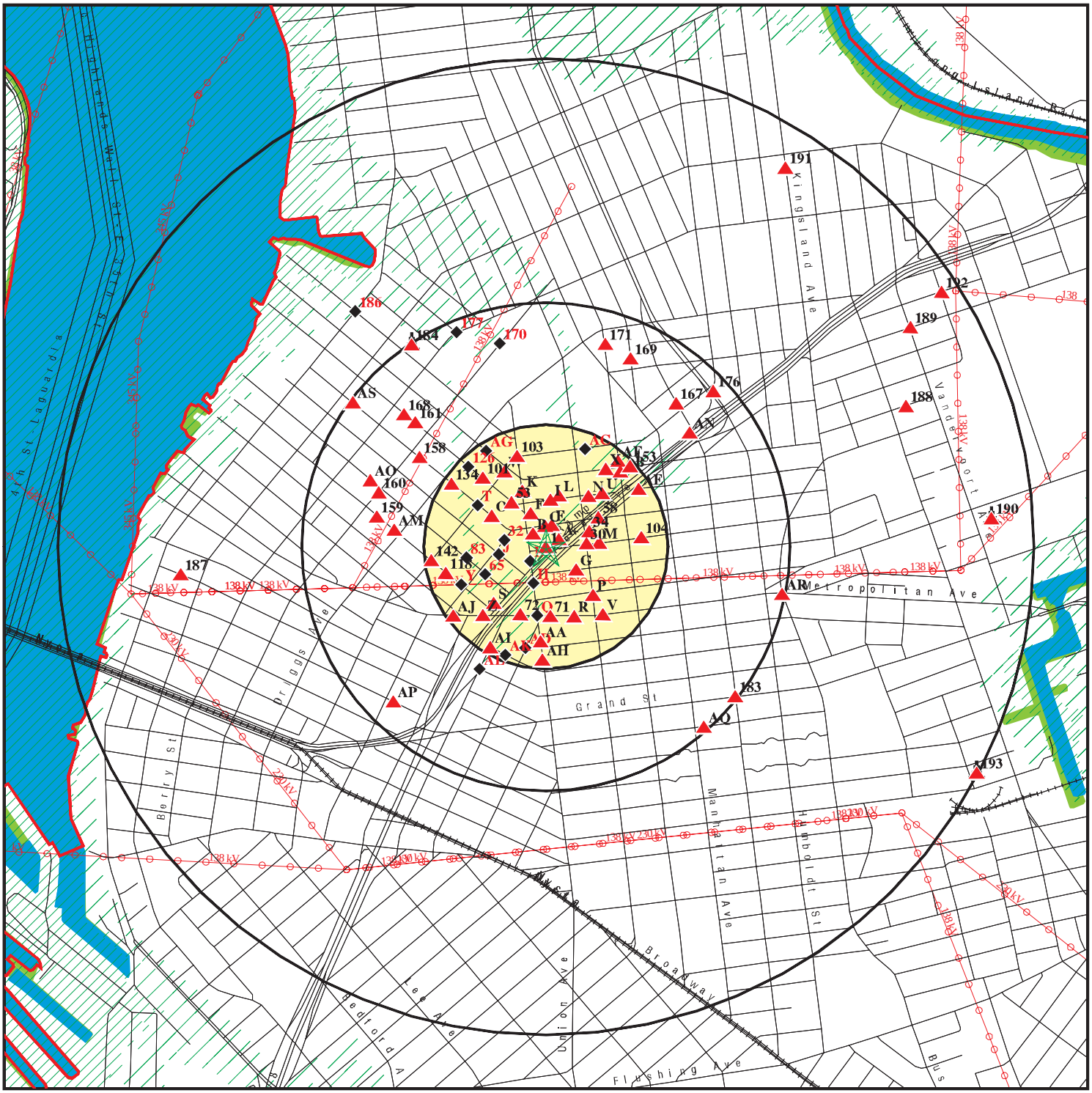
| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| WYTHE AVE. (BERRY ST.) STATION | WYTHE AVE., BERRY ST., | NNW 1/4 - 1/2 (0.498 mi.) | 184 | 673 |
| EQUITY WORKS | MASPETH AND VANDERVORTE | 1/2 - 1 (0.915 mi.) | 190 | 742 |
| SCHOLES ST. STATION | SCHOLES ST 7 BOGART STS | ESE 1/2 - 1 (0.996 mi.) | 193 | 746 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

| Site Name | Database(s) |
|---|---|
| GREAT LAKES DREDGE & DOCK | FINDS,MANIFEST,RCRA-NLR |
| BELL ATLANTIC-NY | MANIFEST |
| NYC AQUARIUM FUEL CELL | FINDS,MANIFEST,RCRA-CESQG |
| CONSOLIDATED EDISON | RCRA-NLR,MANIFEST |
| MEEKER AVE | FINDS,RCRA-NLR,MANIFEST,HIST SPILLS,SPILLS |
| BKLYN UNION GAS /PEOPLES WORKS | CERCLIS-NFRAP |
| BELL ATLANTIC-NY | RCRA-NLR |
| BELL ATLANTIC-NY | RCRA-NLR |
| NYSDOT CONTRACT D258425 | FINDS,RCRA-NLR |
| BELL ATLANTIC-NY | RCRA-NLR |
| MTA NYCT - MYRTLE & WILLOUGHBY AVE | FINDS,RCRA-NLR |
| BELL ATLANTIC-NY | RCRA-NLR |
| BELL ATLANTIC-NY | RCRA-NLR |
| E 29TH ST & KINGS HWY | SPILLS,HIST SPILLS |
| BETW/AVE X & | SPILLS |
| BOX 38486 | SPILLS,HIST SPILLS |
| TO ROADWAY | SPILLS |
| ROADWAY | SPILLS |
| KINGS HIGHWAY MOBIL | SPILLS |
| 205842; KINGS HWY | SPILLS |

# OVERVIEW MAP - 3239991.2s




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

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Power transmission lines

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: 11 Jackson Street, Brooklyn, NY | CLIENT: Env. Business Consultants |
| ADDRESS: 11 Jackson Street<br>Brooklyn NY 11211 | CONTACT: Charlie Sosik<br>INQUIRY #: 3239991.2s |
| LAT/LONG: 40.7161 / 73.9513 | DATE: January 16, 2012 9:32 am |

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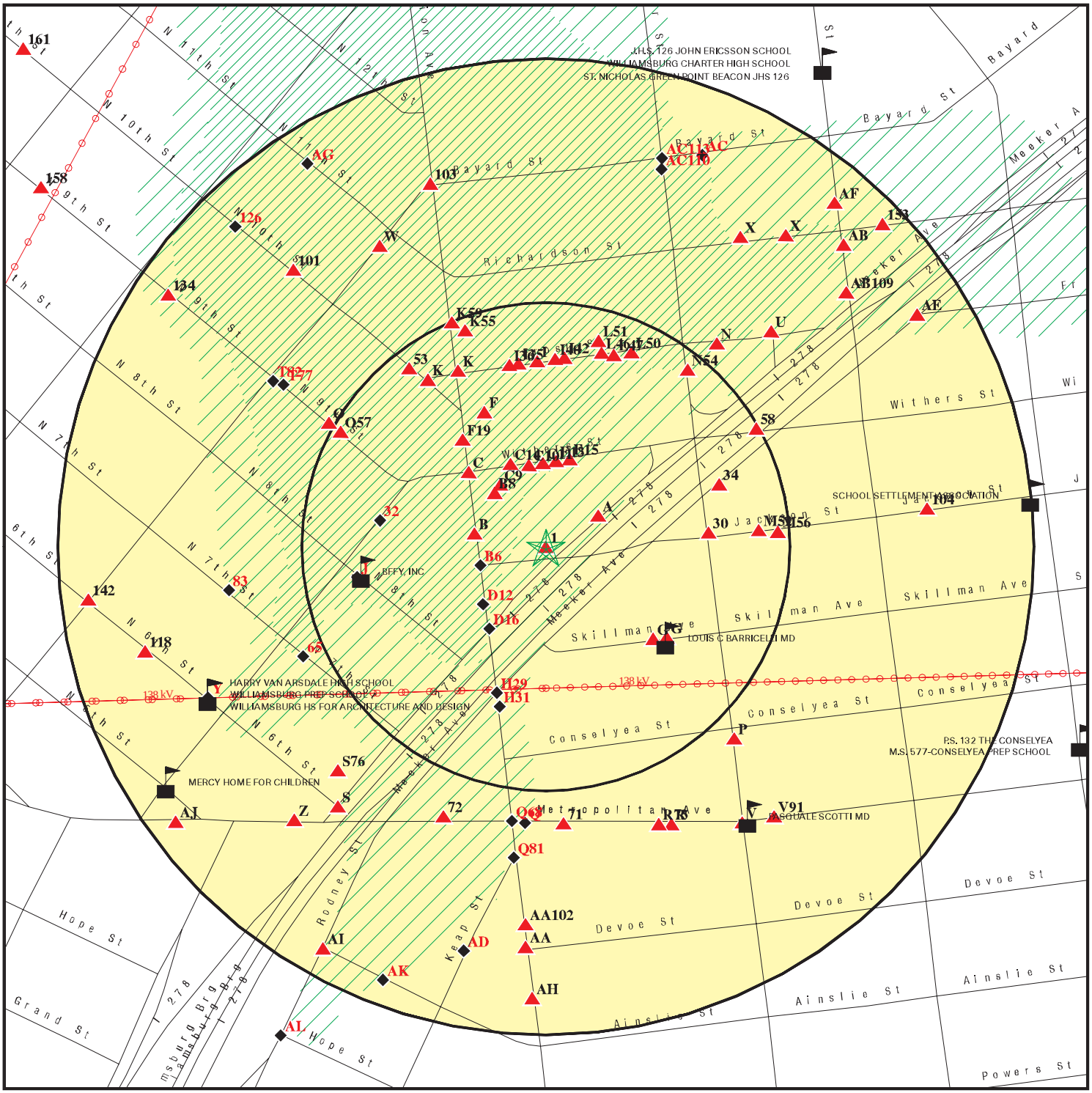
# DETAIL MAP - 3239991.2s




- 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
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

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: 11 Jackson Street, Brooklyn, NY | CLIENT: Env. Business Consultants |
| ADDRESS: 11 Jackson Street<br>Brooklyn NY 11211 | CONTACT: Charlie Sosik<br>INQUIRY #: 3239991.2s |
| LAT/LONG: 40.7161 / 73.9513 | DATE: January 16, 2012 9:32 am |

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# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| 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 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| CERCLIS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| FEDERAL FACILITY | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS NFRAP site List*** | | | | | | | | |
| CERC-NFRAP | | 0.500 | 0 | 0 | 2 | NR | NR | 2 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | | 1.000 | 0 | 0 | 0 | 1 | NR | 1 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | | 0.250 | 0 | 5 | NR | NR | NR | 5 |
| RCRA-SQG | | 0.250 | 1 | 4 | NR | NR | NR | 5 |
| RCRA-CESQG | | 0.250 | 0 | 4 | NR | NR | NR | 4 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| US ENG CONTROLS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | | TP | NR | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| SHWS | | 1.000 | 0 | 1 | 0 | 5 | NR | 6 |
| VAPOR REOPENED | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | | 0.500 | 0 | 0 | 1 | NR | NR | 1 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LTANKS | | 0.500 | 0 | 11 | 25 | NR | NR | 36 |
| HIST LTANKS | | 0.500 | 0 | 10 | 13 | NR | NR | 23 |
| INDIAN LUST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| TANKS | | 0.250 | 0 | 1 | NR | NR | NR | 1 |

# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| UST | | 0.250 | 4 | 19 | NR | NR | NR | 23 |
| CBS UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| MOSF UST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| AST | | 0.250 | 1 | 12 | NR | NR | NR | 13 |
| CBS AST | | 0.250 | 0 | 1 | NR | NR | NR | 1 |
| MOSF AST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| MOSF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| CBS | | 0.250 | 0 | 1 | NR | NR | NR | 1 |
| INDIAN UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| FEMA UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal institutional control / engineering control registries*** | | | | | | | | |
| ENG CONTROLS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INST CONTROL | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| RES DECL | | 0.125 | 0 | NR | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| ERP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| BROWNFIELDS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| ODI | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| SWTIRE | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN ODI | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US CDL | | TP | NR | NR | NR | NR | NR | 0 |
| DEL SHWS | | 1.000 | 0 | 0 | 1 | 0 | NR | 1 |
| US HIST CDL | | TP | NR | NR | NR | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| HIST UST | | 0.250 | 2 | 15 | NR | NR | NR | 17 |
| HIST AST | | TP | NR | NR | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| LIENS 2 | | TP | NR | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| LUCIS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | | TP | NR | NR | NR | NR | NR | 0 |
| NY Spills | | 0.125 | 12 | NR | NR | NR | NR | 12 |
| NY Hist Spills | | 0.125 | 9 | NR | NR | NR | NR | 9 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA-NonGen | | 0.250 | 3 | 18 | NR | NR | NR | 21 |
| 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 |
| 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 | NR | NR | NR | NR | NR | 0 |
| RAATS | | TP | NR | NR | NR | NR | NR | 0 |
| HSWDS | | 0.500 | 0 | 0 | 1 | NR | NR | 1 |
| UIC | | TP | NR | NR | NR | NR | NR | 0 |
| MANIFEST | | 0.250 | 4 | 29 | NR | NR | NR | 33 |
| DRYCLEANERS | | 0.250 | 0 | 2 | NR | NR | NR | 2 |
| NPDES | | TP | NR | NR | NR | NR | NR | 0 |
| AIRS | | TP | NR | NR | NR | NR | NR | 0 |
| E DESIGNATION | X | 0.125 | 37 | NR | NR | NR | NR | 37 |
| INDIAN RESERV | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | | TP | NR | NR | NR | NR | NR | 0 |
| COAL ASH EPA | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| COAL ASH | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| FINANCIAL ASSURANCE | | TP | NR | NR | NR | NR | NR | 0 |
| COAL ASH DOE | | TP | NR | NR | NR | NR | NR | 0 |
| **EDR PROPRIETARY RECORDS** | | | | | | | | |
| ***EDR Proprietary Records*** | | | | | | | | |
| Manufactured Gas Plants | | 1.000 | 0 | 0 | 1 | 2 | NR | 3 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**1 Target Property** | **LOT 47,TAXBLOCK 2741**
**11 JACKSON STREET**
**BROOKLYN, NY 11211** | **E DESIGNATION** | **S108076630**
**N/A**

**Actual: 15 ft.**

E DESIGNATION:

| | |
|---|---|
| Tax Lot(s): | 47 |
| E-No: | E-138 |
| Effective Date: | 5/11/2005 |
| Satisfaction Date: | Not reported |
| Ceqr Number: | 04DCP003K |
| Ulurp Number: | 050110 ZRK, 050111 ZMK, 050415 MMK, 040416 MMK, 040417 MMK, 040418 MMK, 050110 (A) ZRK, 050111 (A) ZMK |
| Zoning Map No: | 12c, 12d, 13a, 13b |
| Description: | Underground Gasoline Storage Tanks* Testing Protocol. |
| Borough Code: | BK |
| Community District: | 301 |
| Census Tract: | 515 |
| Census Block: | 1012 |
| School District: | 14 |
| City Council District: | 33 |
| Fire Company: | E229 |
| Health Area: | 30 |
| Police Precinct: | 094 |
| Zone District 1: | M1-2/R6 |
| Zone District 2: | Not reported |
| Commercial Overlay1: | Not reported |
| Commercial Overlay2: | Not reported |
| Special Purpose District1: | MX-8 |
| Special Purpose District2: | Not reported |
| All Components1: | M1-2/R6/MX-8 |
| All Components2: | Not reported |
| Split Boundary Indicator: | N |
| Building Class: | E9 |
| Land Use Category: | 06 |
| Number of Easements: | 0 |
| Owner, Type of Code: | Not reported |
| Owner Name: | 11 JACKSON STREET LLC |
| Lot Area: | 000009360 |
| Total Building Floor Area: | 00000009000 |
| Commercial Floor Area: | 00000009000 |
| Office Floor Area: | 00000000000 |
| Retail Floor Area: | 00000009000 |
| Garage Floor Area: | 00000000000 |
| Storage Floor Area: | 00000000000 |
| Factory Floor Area: | 00000000000 |
| Other Floor Area: | 00000000000 |
| Floor Area,Total Bld Source Code: | 7 |
| Number of Buildings: | 00001 |
| Number of Floors: | 001.00 |
| Residential Units: | 00000 |
| Non and Residential Units: | 00001 |
| Lot Frontage: | 0072.17 |
| Lot Depth: | 0130.00 |
| Building Frontage: | 0072.00 |
| Building Depth: | 0125.00 |
| Proximity Code: | 3 |
| Irregular Lot Code: | Y |
| Lot Type: | 5 |
| Basement Type Grade: | 5 |

**LOT 47,TAXBLOCK 2741 (Continued)** **S108076630**

| | |
|---|---|
| Land Assessed Value: | 00000054900 |
| Total Assessed Value: | 00000186300 |
| Land Exempt Value: | 00000000000 |
| Total Exempt Value: | 00000000000 |
| Year Built: | 1950 |
| 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: | 0000.96 |
| Maximum Allowable Far: | 03.00 |
| Borough Code: | 3 |
| Borough Tax Block And Lot: | 3027410047 |
| Condominium Number: | 00000 |
| Census Tract 2: | 0515 |
| X Coordinate: | 0997733 |
| Y Coordinate: | 0200236 |
| Zoning Map: | 13A |
| Sanborn Map: | 304 024 |
| Tax Map: | 30905 |
| E Designation No: | E-138 |
| 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 |

---

**A2** **MEECO CORP** **UST** **U000406810**
**ENE** **243 MEEKER AVENUE** **HIST UST** **N/A**
**< 1/8** **BROOKLYN, NY 11211** **AST**
**0.031 mi.**
**164 ft.** **Site 1 of 2 in cluster A**

**Relative:**
**Higher**

**Actual:**
**17 ft.**

UST:

| | |
|---|---|
| Facility Id: | 2-247405 |
| Region: | STATE |
| DEC Region: | 2 |
| Site Status: | Unregulated |
| Program Type: | PBS |
| Expiration Date: | N/A |
| UTM X: | 588683.13272999995 |
| UTM Y: | 4507792.3811299996 |

Affiliation Records:

| | |
|---|---|
| Site Id: | 9724 |
| Affiliation Type: | Owner |
| Company Name: | SPARTAN PETROLEUM CORP. |
| Contact Type: | PROPERTY MANAGER |
| Contact Name: | JAY SEMELMACHER |
| Address1: | 333 NEW HYDE PARK ROAD |
| Address2: | SUITE 201 |
| City: | NEW HYDE PARK |
| State: | NY |

# APPENDIX F

# INTERNET SEARCH RESULTS

Cortera Company Profile For:

# S & J SHEET METAL SUPPLY INC

503 UNION AVE
BROOKLYN, NY 11211-1243 | view map
(718) 384-0800

Angie's List Local Rating Read Local Ratings & Reviews. Find Contractors in Your Area! www.AngiesList.com/Contractors
Eastern LI Roofing-Siding Owner Operated-Certified Mechanics, Exceptional Service and Workmanship cotroneconstruction.com
Certified Mold Removal #1 Mold Inspection Detailed Report Most Advanced 1 Day Mold Removal www.FiveBoroMoldSpecialist.com
AdChoices

## COMPANY DETAILS

**Location Type:** Branch

**Ownership:** Private

Have fresher information? | Update now

## CURRENT NEWS

There is currently no press for this company.

## COMPANY OVERVIEW

S & J SHEET METAL SUPPLY INC in BROOKLYN, NY.

## RECENT ALERTS

| | |
|---|---|
| Financial News: | No |
| Growth Clues: | No |
| Payment Score: | No |
| Public Records: | No |

What are Alerts?

## COMMUNITY REVIEWS

Cortera's more than a Web site, or even a search engine. Instead it's an online community where real people exchange information and share the real deal on real companies. It's invaluable intel that's now available for free.

- Get the inside scoop with ratings and reviews on S & J SHEET METAL SUPPLY INC
- Rate S & J SHEET METAL SUPPLY INC on their payment behavior
- Ask your network about S & J SHEET METAL SUPPLY INC with Cortera Circles

Join the Cortera Community for free today.

WANT TO KNOW WHEN YOUR CUSTOMERS ARE CHANGING?

First Name *

Last Name *

Email *

Your Company Name *

Your Business Information Provider

Select your provider...

Phone

Almost there... solve this simple math question so we know you're a real person.

7 - 2 = Math is hard! Try another?

TELL ME MORE

Your email and contact information will be protected in accordance with our privacy policy.

## TODAY'S ALERTS

THELIN CO INC
ADVANCED PEST CONTROL
SHADES OF COLOR
IRIS GROUP
CONSOLIDATED WESTERN CONTRACTORS INC

**Are any of these companies YOUR customers?**

The information contained in this company profile is compiled from third party sources, including but not limited to public records, user submissions, and other commercially available data sources. These sources may not be accurate, complete, or up-to-date. Cortera makes no representations or warranties regarding, and assumes no responsibility for, the accuracy, completeness, or currency of the information contained herein.

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# ***ATTACHMENT B***
# ***SOIL BORING LOGS***

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

**B1**

| | | | | |
|---|---|---|---|---|
| Location: Performed 9ft from south wall and 10ft from east wall. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: EXB1102 | Address: 505 Union Avenue, Brooklyn NY | Date | DTW | Ground Elevation |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | Groundwater depth ~7 | | Well Specifications |
| Date Started: 6/12/2012 | Date Completed: 6/12/2012 | | | None |
| Completion Depth: 12 feet | Geologist S. Babyatski | | | |

| B1 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 4 | 12 | | 0.0 | 2" - Concrete<br>10" - Historic fill material.<br>**Retained soil sample B1(0-4)* |
| | to 8 | 24 | | 0.0 | 19" - Brown fine grained sands with coal. Moist.<br>5" - Red/Brown brick and sands with gravel and coal fragments. |
| | to 12 | 37 | | 0.0 | 9" - Brown medium grained sands and gravel.<br>9" - Dark Red/Grey sandy clay. Saturated.<br>19" - Grey medium grained sandy clays. |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

**B2**

| | | | | |
|---|---|---|---|---|
| Location: Performed 35ft from east wall and 42ft from south wall. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: EXB1102 | Address: 505 Union Avenue, Brooklyn NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | ~7 | | Well Specifications |
| Date Started: 6/12/2012 | Date Completed: 6/12/2012 | | | None |
| Completion Depth: 12 feet | Geologist S. Babyatski | | | |

| B2 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 4 | 28 | | 0.0 | 4" - Concrete<br>6" - Historic fill material.<br>12" - Brown medium grained sands and gravel.<br>6" - Brown fine grained silty sands.<br>**Retained soil sample B2(0-4)* |
| | to 8 | 29 | | 0.0 | 8" - Brown/Red medium grained sands and gravel. Moist.<br>16" - Brown/Red fine to medium grained silty sands.<br>5" - Grey medium grained sands with coal. |
| | to 12 | 23 | | 0.0 | 13" - Brown medium grained silty sands and gravel. Saturated.<br>10" - Brown/Grey medium to coarse grained sand and gravel. |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

**B3**

| | | | | |
|---|---|---|---|---|
| Location: Performed in the proposed elevator location. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: EXB1102 | Address: 505 Union Avenue, Brooklyn NY | Date | DTW | Ground Elevation |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | Groundwater depth ~7 | | Well Specifications |
| Date Started: 6/12/2012 | Date Completed: 6/12/2012 | | | None |
| Completion Depth: 12 feet | Geologist K. Waters | | | |

| B3 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 4 | 12 | | 0.0 | 7" - Concrete<br>5" - Historic fill material in a sandy matrix with brick, gravel and coal.<br>**Retained soil sample B3(0-4)* |
| | to 8 | 28 | | 0.0 | 4" - Cave in of 0-4ft interval<br>20" - Dark brown silty sand with layers of coal deposits. Moist.<br>4" - Silty sands with brick, wood and coal. |
| | to 12 | 23 | | 0.0 | 10" - Dark brown silty sand with coal.<br>5" - Brown sandy clays.<br>8" - Dark brown silty sands with coal. |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

**B4**

| | | | | |
|---|---|---|---|---|
| Location: Performed 45ft from east property line and 63ft from north property line. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: EXB1102 | Address: 505 Union Avenue, Brooklyn NY | Date | DTW | Ground Elevation |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | Groundwater depth ~7 | | Well Specifications |
| Date Started: 6/12/2012 | Date Completed: 6/12/2012 | | | None |
| Completion Depth: 12 feet | Geologist S. Babyatski | | | |

| B4 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | 0 to 4 | 28 | | 0.0 | 3" - Concrete<br>14" - Hostoric fill material in a sandy matrix<br>2" - Brown medium grained sands with coal<br>9" - Dark brown medium grained sands with gravel, coal fragments and brick.<br>**Retained soil sample B4(0-4)* |
| | 4 to 8 | 25 | | 0.0 | 1" - Dark brown medium grained sands with some gravel.<br>21" - Medium grained sandy silts with gravel. Saturated.<br>3" - Sandy gravel with coal fragments |
| | 8 to 12 | 21 | | 0.0 | 12" - Medium grained sands and gravel<br>9" - Grey/black gravel and fine grained sands |
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# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

**B5**

| | | | | |
|---|---|---|---|---|
| Location: Performed 25ft from west end of property. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: EXB1102 | Address: 505 Union Avenue, Brooklyn NY | Date | DTW | Ground Elevation |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | Groundwater depth ~7 | | Well Specifications |
| Date Started: 6/12/2012 | Date Completed: 6/12/2012 | | | None |
| Completion Depth: 12 feet | Geologist S. Babyatski | | | |

| B5 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 4 | 22 | | 0.0 | 6" - concrete<br>16" - Hisotric fill material with bark brown/black sands and gravel.<br>**Retained soil sample B5(0-4)* |
| | to 8 | 14 | | 0.0 | 3" - Cave in of 0-4ft interval<br>3" - Brick<br>4" - Dark brown/black fine grained sands with brick. Moist.<br>4" - Silty sand with gravel. Saturated. |
| | to 12 | 26 | | 0.0 | 4" - Dark brown medium grained sands with gravel. Saturated.<br>6" - Brown silty sands<br>16" - Grey/Balck silty sands with coal fragements. |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

**B6**

| | | | | |
|---|---|---|---|---|
| Location: Performed 15ft from east property line and 57ft from north property line. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: EXB1102 | Address: 505 Union Avenue, Brooklyn NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | ~7 | | Well Specifications |
| Date Started: 6/12/2012 | Date Completed: 6/12/2012 | | | None |
| Completion Depth: 12 feet | Geologist S. Babyatski | | | |

| B6 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 4 | 27 | | 0.0 | 2" - Concrete<br>7" - Hisotric fill<br>5" - Conrete<br>13" - Brown medium grained sands and gravel<br>**Retained soil sample B6(0-4)* |
| | to 8 | 23 | | 0.0 | 11" - Dark brown sands with gravel and coal fragements. Moist.<br>12" - Brown sands and gravel. Moist. |
| | to 12 | 20 | | 0.0 | 7" - Brown sands and gravel. Saturated.<br>8" - Grey/Black fine silty sands<br>5" - Gret/Black sandy clay. |
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# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

**B7**

| | | | | |
|---|---|---|---|---|
| Location: Performed 15ft from east wall. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: EXB1102 | Address: 505 Union Avenue, Brooklyn NY | Date | DTW | Ground Elevation |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | Groundwater depth ~7 | | Well Specifications |
| Date Started: 6/12/2012 | Date Completed: 6/12/2012 | | | None |
| Completion Depth: 12 feet | Geologist S. Babyatski | | | |

| B7 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 4 | 19 | | 0.0 | 4" - Concrete<br>1" - Black historical fill maerial with coal fragments.<br>8" - Historic fill material in a brown sandy matrix with brick and gravel.<br>6" - Brown/Grey sandy loam with gravel.<br>**Retained soil sample B7(0-4)* |
| | to 8 | 20 | | 0.0 | 9" - Borwn silty sand with some gravel. Moist.<br>1" - Black sandy material with some gravel.<br>3" - Brown fine grained silty sand<br>7" - Dark brown medium grained sands with silt. Saturated. |
| | to 12 | 19 | | 0.0 | 4" - Medium graned silty sands with some clay.<br>4" - Brown/Grey medium grained sands and gravel. Saturated.<br>9" - Grey medum grained sands and gravel.<br>2" - Dark Grey gravel and coard grained sands. |
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# ***ATTACHMENT C***
# ***GROUNDWATER SAMPLING LOGS***

# GROUNDWATER PURGE / SAMPLE LOGS

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW1

Date: 6/12/2012

Well Depth (from TOC): 12

Equipment: Check Valve

Static Water Level (from TOC): 5.63

Field Personnel: Sara Babyatski

Height of Water in Well: 6.37

Gallons of Water per Well Volume: 0.2548

Flow Rate: 400ml/min.

| Time | Time (24Hr) | Pump Rate | Gal. Removed | pH | Cond. (µS/cm) | Temp. (ºF) | DO (mg/L) | Comments |
|---|---|---|---|---|---|---|---|---|
| 0.00 | 9:00 | 400ml/min | 0 | | | | | turbid |
| 2.00 | 9:02 | 400ml/min | 0.22 | | | | | turbid |
| 4.00 | 9:04 | 400ml/min | 0.44 | | | | | turbid |
| 6.00 | 9:06 | 400ml/min | 0.66 | | | | | clear |
| 8.00 | 9:08 | 400ml/min | 0.88 | | | | | clear |
| | | | | | | | | |
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Note 400 ml = 0.11 gallons

# GROUNDWATER PURGE / SAMPLE LOGS

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW2

Date: 6/12/2012

Well Depth (from TOC): 12

Equipment: Check Valve

Static Water Level (from TOC): 5.02

Field Personnel: Sara Babyatski

Height of Water in Well: 6.98

Gallons of Water per Well Volume: 0.2792

Flow Rate: 400ml/min.

| Time | Time (24Hr) | Pump Rate | Gal. Removed | pH | Cond. (µS/cm) | Temp. (ºF) | DO (mg/L) | Comments |
|---|---|---|---|---|---|---|---|---|
| 0.00 | 9:58 | 400ml/min | 0 | | | | | turbid |
| 2.00 | 10:00 | 400ml/min | 0.22 | | | | | turbid |
| 4.00 | 10:02 | 400ml/min | 0.44 | | | | | turbid |
| 6.00 | 10:04 | 400ml/min | 0.66 | | | | | clear |
| 8.00 | 10:06 | 400ml/min | 0.88 | | | | | clear |
| | | | | | | | | |
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Note 400 ml = 0.11 gallons

# GROUNDWATER PURGE / SAMPLE LOGS

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW3

Date: 6/12/2012

Well Depth (from TOC): 12

Equipment: Check Valve

Static Water Level (from TOC): 6.67

Field Personnel: Sara Babyatski

Height of Water in Well: 5.33

Gallons of Water per Well Volume: 0.2132

Flow Rate: 400ml/min.

| Time | Time (24Hr) | Pump Rate | Gal. Removed | pH | Cond. (µS/cm) | Temp. (ºF) | DO (mg/L) | Comments |
|---|---|---|---|---|---|---|---|---|
| 0.00 | 11:11 | 400ml/min | 0 | | | | | turbid |
| 2.00 | 11:13 | 400ml/min | 0.22 | | | | | turbid |
| 4.00 | 11:15 | 400ml/min | 0.44 | | | | | turbid |
| 6.00 | 11:17 | 400ml/min | 0.66 | | | | | clear |
| | | | | | | | | |
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Note 400 ml = 0.11 gallons

# GROUNDWATER PURGE / SAMPLE LOGS

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW4

Date: 6/12/2012

Well Depth (from TOC): 12

Equipment: Check Valve

Static Water Level (from TOC): 7.39

Field Personnel: Sara Babyatski

Height of Water in Well: 4.61

Gallons of Water per Well Volume: 0.1844

Flow Rate: 400ml/min.

| Time | Time (24Hr) | Pump Rate | Gal. Removed | pH | Cond. (µS/cm) | Temp. (ºF) | DO (mg/L) | Comments |
|---|---|---|---|---|---|---|---|---|
| 0.00 | 11:48 | 400ml/min | 0 | | | | | turbid |
| 2.00 | 11:50 | 400ml/min | 0.22 | | | | | turbid |
| 4.00 | 11:52 | 400ml/min | 0.44 | | | | | turbid |
| 6.00 | 11:54 | 400ml/min | 0.66 | | | | | clear |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

Note 400 ml = 0.11 gallons

# ***ATTACHMENT D***
# ***SOIL GAS SAMPLING LOGS***

# PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

## CHAIN OF CUSTODY RECORD
## AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # 1



Data Delivery:
- ☐ Fax #:
- ☑ Email: CSOSIK@ebcihcny.com
- ☐ Phone #:

Report to:

Customer:

Address: 1808 Middle Country Road
Ridge, NY 11961

Invoice to:

Sampled by: D. MOSCA

Project Name:

Criteria Requested: Deliverable: RCP ☐ MCP ☐

State where samples collected: NY

| Phoenix ID # | Client Sample ID | 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) | Ambient/Indoor Air | Soil Gas | Grab (G) Composite (C) | TO-14 | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | THIS SECTION FOR LAB USE ONLY | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 99264 | SS1 | 358 | 6 | -30 | -4 | 3410 | | 650 | 1357 | 6/14/12 | -30 | -7 | | | | | X |
| 99265 | SS2 | 484 | | | -6 | 3408 | | 652 | 1400 | | | -8 | | | | | |
| 99266 | SS3 | 11287 | | | -6 | 5030 | | 703 | 1354 | | | -9 | | | | | |
| 99267 | SS4 | 357 | | | -5 | 4981 | | 709 | 1353 | | | -9 | | | | | |
| 99268 | SS5 | 227 | | | -4 | 5044 | | 715 | 1345 | | -26.5 | -6 | | | | | |
| 99269 | AA1 | 495 | | | -5 | 4988 | | 654 | 1401 | | -30 | -8 | | | | | |
| 99270 | AA2 | 225 | | | -7 | 4959 | | 711 | 1352 | | | -9 | | | | | |
| 99271 | AA3 | 221 | | | -7 | 4991 | | 710 | 1349 | | | -10 | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 6-15-12 | 10:05 |
| | | 6-15-12 | 16:30 |

Data Format: Excel ☑ Equis ☐ GISKey ☐ PDF ☑ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Quote Number:

*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:*

Signature: Date:

6L 8HR

# ***ATTACHMENT E***
# ***LABORATORY REPORTS IN DIGITAL FORMAT***

PHOENIX
Environmental Laboratories, Inc.

**Thursday, April 17, 2014**

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

**Project ID:**
**Sample ID#s: BB99264 - BB99271**

**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.**

**If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.**

**Sincerely yours,**

**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**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 13:57 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99264

Project ID:
Client ID: SS1

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 0.82 | *0.204* | 4.03 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.27 | *0.204* | 1.33 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.23 | *0.204* | 1.13 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Acetone | ND | *0.421* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Benzene | ND | *0.313* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS1

Phoenix I.D.: BB99264

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Carbon Tetrachloride | ND | *0.040* | ND | *0.251* | 06/20/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloroform | ND | *0.205* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Cyclohexane | 0.58 | *0.291* | 2.00 | *1.00* | 06/20/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.36 | *0.202* | 1.78 | *0.998* | 06/20/12 | KCA | TO15 | |
| Ethanol | ND | *0.531* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.67 | *0.230* | 2.91 | *0.998* | 06/20/12 | KCA | TO15 | |
| Heptane | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Hexane | ND | *0.284* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| m,p-Xylene | 1.65 | *0.230* | 7.16 | *0.998* | 06/20/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Methylene Chloride | 0.38 | *0.288* | 1.32 | *1.00* | 06/20/12 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| o-Xylene | 0.66 | *0.230* | 2.86 | *0.998* | 06/20/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Tetrachloroethene | 0.2 | *0.037* | 1.36 | *0.251* | 06/20/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| Toluene | 2.93 | *0.266* | 11.0 | *1.00* | 06/20/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.252* | 06/20/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.33 | *0.178* | 1.85 | *0.999* | 06/20/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/20/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 105 | *%* | 105 | *%* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS1

Phoenix I.D.: BB99264

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 14:00 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99265

Project ID:
Client ID: SS2

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 1.01 | *0.204* | 4.96 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.31 | *0.204* | 1.52 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.24 | *0.204* | 1.18 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Acetone | 12.2 | *0.421* | 29.0 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Benzene | ND | *0.313* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS2

Phoenix I.D.: BB99265

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Carbon Disulfide | 0.41 | *0.321* | 1.28 | *0.999* | 06/20/12 | KCA | TO15 | |
| Carbon Tetrachloride | 0.1 | *0.040* | 0.629 | *0.251* | 06/20/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloroform | 4.15 | *0.205* | 20.2 | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Cyclohexane | 0.44 | *0.291* | 1.51 | *1.00* | 06/20/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.49 | *0.202* | 2.42 | *0.998* | 06/20/12 | KCA | TO15 | |
| Ethanol | 36.5 | *0.531* | 68.7 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.78 | *0.230* | 3.38 | *0.998* | 06/20/12 | KCA | TO15 | |
| Heptane | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Hexane | 0.34 | *0.284* | 1.20 | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| m,p-Xylene | 2.05 | *0.230* | 8.90 | *0.998* | 06/20/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | 0.74 | *0.339* | 2.18 | *0.999* | 06/20/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Methylene Chloride | 1.23 | *0.288* | 4.27 | *1.00* | 06/20/12 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| o-Xylene | 0.8 | *0.230* | 3.47 | *0.998* | 06/20/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| Styrene | 0.24 | *0.235* | 1.02 | *1.00* | 06/20/12 | KCA | TO15 | |
| Tetrachloroethene | 21.6 | *0.037* | 146 | *0.251* | 06/20/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| Toluene | 3.45 | *0.266* | 13.0 | *1.00* | 06/20/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Trichloroethene | 1.29 | *0.047* | 6.93 | *0.252* | 06/20/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.31 | *0.178* | 1.74 | *0.999* | 06/20/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/20/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 105 | *%* | 105 | *%* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS2

Phoenix I.D.: BB99265

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 13:54 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99266

Project ID:
Client ID: SS3

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | 0.56 | *0.183* | 3.05 | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 1.04 | *0.204* | 5.11 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.34 | *0.204* | 1.67 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.27 | *0.204* | 1.33 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.61 | *0.244* | 2.50 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acetone | 18.6 | *0.421* | 44.2 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Benzene | 0.42 | *0.313* | 1.34 | *0.999* | 06/20/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS3

Phoenix I.D.: BB99266

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Carbon Disulfide | 0.83 | *0.321* | 2.58 | *0.999* | 06/20/12 | KCA | TO15 | |
| Carbon Tetrachloride | ND | *0.040* | ND | *0.251* | 06/20/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloroform | 1.96 | *0.205* | 9.56 | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Cyclohexane | 0.49 | *0.291* | 1.68 | *1.00* | 06/20/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.53 | *0.202* | 2.62 | *0.998* | 06/20/12 | KCA | TO15 | |
| Ethanol | ND | *0.531* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.9 | *0.230* | 3.90 | *0.998* | 06/20/12 | KCA | TO15 | |
| Heptane | 0.27 | *0.244* | 1.10 | *0.999* | 06/20/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Hexane | 0.75 | *0.284* | 2.64 | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| m,p-Xylene | 2.4 | *0.230* | 10.4 | *0.998* | 06/20/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | 1.17 | *0.339* | 3.45 | *0.999* | 06/20/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Methylene Chloride | 1.8 | *0.288* | 6.25 | *1.00* | 06/20/12 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| o-Xylene | 0.91 | *0.230* | 3.95 | *0.998* | 06/20/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| Styrene | 0.25 | *0.235* | 1.06 | *1.00* | 06/20/12 | KCA | TO15 | |
| Tetrachloroethene | 0.43 | *0.037* | 2.91 | *0.251* | 06/20/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| Toluene | 4.18 | *0.266* | 15.7 | *1.00* | 06/20/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.252* | 06/20/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.36 | *0.178* | 2.02 | *0.999* | 06/20/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | 0.14 | *0.130* | 1.07 | *0.996* | 06/20/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/20/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 105 | *%* | 105 | *%* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS3

Phoenix I.D.: BB99266

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 13:53 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99267

Project ID:
Client ID: SS4

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 1.06 | *0.204* | 5.21 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.35 | *0.204* | 1.72 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.32 | *0.204* | 1.57 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.73 | *0.244* | 2.99 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acetone | 17.3 | *0.421* | 41.1 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Benzene | 0.5 | *0.313* | 1.60 | *0.999* | 06/20/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS4

Phoenix I.D.: BB99267

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Carbon Tetrachloride | 0.04 | *0.040* | 0.251 | *0.251* | 06/20/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloroform | 0.73 | *0.205* | 3.56 | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Cyclohexane | 0.37 | *0.291* | 1.27 | *1.00* | 06/20/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.52 | *0.202* | 2.57 | *0.998* | 06/20/12 | KCA | TO15 | |
| Ethanol | 25.8 | *0.531* | 48.6 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.89 | *0.230* | 3.86 | *0.998* | 06/20/12 | KCA | TO15 | |
| Heptane | 0.3 | *0.244* | 1.23 | *0.999* | 06/20/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Hexane | 0.87 | *0.284* | 3.06 | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| m,p-Xylene | 2.55 | *0.230* | 11.1 | *0.998* | 06/20/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | 1.55 | *0.339* | 4.57 | *0.999* | 06/20/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Methylene Chloride | 2.65 | *0.288* | 9.20 | *1.00* | 06/20/12 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| o-Xylene | 1.06 | *0.230* | 4.60 | *0.998* | 06/20/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Tetrachloroethene | 0.39 | *0.037* | 2.64 | *0.251* | 06/20/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| Toluene | 4.06 | *0.266* | 15.3 | *1.00* | 06/20/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.252* | 06/20/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.27 | *0.178* | 1.52 | *0.999* | 06/20/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/20/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 104 | *%* | 104 | *%* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS4

Phoenix I.D.: BB99267

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 13:45 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99268

Project ID:
Client ID: SS5

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | 0.68 | *0.183* | 3.71 | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 1.03 | *0.204* | 5.06 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.33 | *0.204* | 1.62 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.29 | *0.204* | 1.42 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.67 | *0.244* | 2.74 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acetone | 8.7 | *0.421* | 20.6 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Benzene | 0.49 | *0.313* | 1.56 | *0.999* | 06/20/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS5

Phoenix I.D.: BB99268

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Carbon Tetrachloride | 0.04 | *0.040* | 0.251 | *0.251* | 06/20/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloroform | 0.59 | *0.205* | 2.88 | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.49 | *0.202* | 2.42 | *0.998* | 06/20/12 | KCA | TO15 | |
| Ethanol | 29.3 | *0.531* | 55.2 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.85 | *0.230* | 3.69 | *0.998* | 06/20/12 | KCA | TO15 | |
| Heptane | 0.27 | *0.244* | 1.10 | *0.999* | 06/20/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Hexane | 0.95 | *0.284* | 3.35 | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| m,p-Xylene | 2.26 | *0.230* | 9.81 | *0.998* | 06/20/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | 0.57 | *0.339* | 1.68 | *0.999* | 06/20/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Methylene Chloride | 1.99 | *0.288* | 6.91 | *1.00* | 06/20/12 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| o-Xylene | 0.9 | *0.230* | 3.90 | *0.998* | 06/20/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Tetrachloroethene | 3.25 | *0.037* | 22.0 | *0.251* | 06/20/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| Toluene | 3.56 | *0.266* | 13.4 | *1.00* | 06/20/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Trichloroethene | 0.14 | *0.047* | 0.752 | *0.252* | 06/20/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.27 | *0.178* | 1.52 | *0.999* | 06/20/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/20/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 104 | *%* | 104 | *%* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: SS5

Phoenix I.D.: BB99268

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 14:01 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99269

Project ID:
Client ID: AA1

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 1.27 | *0.204* | 6.24 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.41 | *0.204* | 2.01 | *1.00* | 06/20/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/20/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.35 | *0.204* | 1.72 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Acetone | 8.21 | *0.421* | 19.5 | *0.999* | 06/20/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Benzene | 0.61 | *0.313* | 1.95 | *0.999* | 06/20/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: AA1

Phoenix I.D.: BB99269

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Carbon Tetrachloride | 0.08 | *0.040* | 0.503 | *0.251* | 06/20/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloroform | 0.77 | *0.205* | 3.76 | *1.00* | 06/20/12 | KCA | TO15 | |
| Chloromethane | 0.67 | *0.484* | 1.38 | *0.999* | 06/20/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.51 | *0.202* | 2.52 | *0.998* | 06/20/12 | KCA | TO15 | |
| Ethanol | 12.6 | *0.531* | 23.7 | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.56 | *0.230* | 2.43 | *0.998* | 06/20/12 | KCA | TO15 | |
| Heptane | 0.42 | *0.244* | 1.72 | *0.999* | 06/20/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Hexane | 1.69 | *0.284* | 5.95 | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylalcohol | 1.61 | *0.407* | 3.96 | *1.00* | 06/20/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| m,p-Xylene | 1.75 | *0.230* | 7.59 | *0.998* | 06/20/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Methylene Chloride | 2.91 | *0.288* | 10.1 | *1.00* | 06/20/12 | KCA | TO15 | |
| n-Butylbenzene | 0.21 | *0.182* | 1.15 | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| o-Xylene | 0.73 | *0.230* | 3.17 | *0.998* | 06/20/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/20/12 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 06/20/12 | KCA | TO15 | |
| Tetrachloroethene | 0.07 | *0.037* | 0.474 | *0.251* | 06/20/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/20/12 | KCA | TO15 | 1 |
| Toluene | 2.83 | *0.266* | 10.6 | *1.00* | 06/20/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/20/12 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.252* | 06/20/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.2 | *0.178* | 1.12 | *0.999* | 06/20/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *0.996* | 06/20/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/20/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 105 | *%* | 105 | *%* | 06/20/12 | KCA | TO15 | |

Project ID:
Client ID: AA1

Phoenix I.D.: BB99269

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 13:52 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99270

Project ID:
Client ID: AA2

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 2.17 | *0.204* | 10.7 | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.62 | *0.204* | 3.05 | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/21/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.53 | *0.204* | 2.60 | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/21/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.74 | *0.244* | 3.03 | *0.999* | 06/21/12 | KCA | TO15 | |
| Acetone | 11.6 | *0.421* | 27.5 | *0.999* | 06/21/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Benzene | 0.56 | *0.313* | 1.79 | *0.999* | 06/21/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/21/12 | KCA | TO15 | |

Project ID:
Client ID: AA2

Phoenix I.D.: BB99270

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| Carbon Tetrachloride | 0.09 | *0.040* | 0.566 | *0.251* | 06/21/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Chloroform | ND | *0.205* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Chloromethane | 0.67 | *0.484* | 1.38 | *0.999* | 06/21/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Cyclohexane | 0.44 | *0.291* | 1.51 | *1.00* | 06/21/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/21/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.51 | *0.202* | 2.52 | *0.998* | 06/21/12 | KCA | TO15 | |
| Ethanol | 14.7 | *0.531* | 27.7 | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.81 | *0.230* | 3.52 | *0.998* | 06/21/12 | KCA | TO15 | |
| Heptane | 0.49 | *0.244* | 2.01 | *0.999* | 06/21/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Hexane | 1.09 | *0.284* | 3.84 | *1.00* | 06/21/12 | KCA | TO15 | |
| Isopropylalcohol | 4.02 | *0.407* | 9.88 | *1.00* | 06/21/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| m,p-Xylene | 2.9 | *0.230* | 12.6 | *0.998* | 06/21/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | 0.73 | *0.339* | 2.15 | *0.999* | 06/21/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Methylene Chloride | 0.44 | *0.288* | 1.53 | *1.00* | 06/21/12 | KCA | TO15 | |
| n-Butylbenzene | 0.32 | *0.182* | 1.76 | *0.998* | 06/21/12 | KCA | TO15 | 1 |
| o-Xylene | 1.28 | *0.230* | 5.55 | *0.998* | 06/21/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/21/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/21/12 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Tetrachloroethene | 0.08 | *0.037* | 0.542 | *0.251* | 06/21/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/21/12 | KCA | TO15 | 1 |
| Toluene | 3.74 | *0.266* | 14.1 | *1.00* | 06/21/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.252* | 06/21/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.24 | *0.178* | 1.35 | *0.999* | 06/21/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *0.996* | 06/21/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/21/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 108 | *%* | 108 | *%* | 06/21/12 | KCA | TO15 | |

Project ID:
Client ID: AA2

Phoenix I.D.: BB99270

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 17, 2014

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | DM | 06/14/12 | 13:49 |
| Location Code: | EBC | Received by: | SW | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99264
Phoenix ID: BB99271

Project ID:
Client ID: AA3

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 1.06 | *0.204* | 5.21 | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | 0.32 | *0.204* | 1.57 | *1.00* | 06/21/12 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *0.997* | 06/21/12 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *0.999* | 06/21/12 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.28 | *0.204* | 1.38 | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *0.998* | 06/21/12 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 1.04 | *0.244* | 4.26 | *0.999* | 06/21/12 | KCA | TO15 | |
| Acetone | 269 | *0.421* | 639 | *0.999* | 06/21/12 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Benzene | 0.32 | *0.313* | 1.02 | *0.999* | 06/21/12 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *0.999* | 06/21/12 | KCA | TO15 | |

Project ID:
Client ID: AA3

Phoenix I.D.: BB99271

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *0.999* | 06/21/12 | KCA | TO15 | |
| Carbon Tetrachloride | 0.08 | *0.040* | 0.503 | *0.251* | 06/21/12 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Chloroform | ND | *0.205* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Chloromethane | 0.68 | *0.484* | 1.40 | *0.999* | 06/21/12 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Cyclohexane | 0.66 | *0.291* | 2.27 | *1.00* | 06/21/12 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *0.996* | 06/21/12 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.51 | *0.202* | 2.52 | *0.998* | 06/21/12 | KCA | TO15 | |
| Ethanol | 60.7 | *0.531* | 114 | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 06/21/12 | KCA | TO15 | 1 |
| Ethylbenzene | 0.95 | *0.230* | 4.12 | *0.998* | 06/21/12 | KCA | TO15 | |
| Heptane | 0.44 | *0.244* | 1.80 | *0.999* | 06/21/12 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Hexane | ND | *0.284* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Isopropylalcohol | 2.65 | *0.407* | 6.51 | *1.00* | 06/21/12 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| m,p-Xylene | 2.36 | *0.230* | 10.2 | *0.998* | 06/21/12 | KCA | TO15 | |
| Methyl Ethyl Ketone | 1.97 | *0.339* | 5.81 | *0.999* | 06/21/12 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 06/21/12 | KCA | TO15 | |
| Methylene Chloride | 0.4 | *0.288* | 1.39 | *1.00* | 06/21/12 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/21/12 | KCA | TO15 | 1 |
| o-Xylene | 0.9 | *0.230* | 3.90 | *0.998* | 06/21/12 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *0.999* | 06/21/12 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *0.998* | 06/21/12 | KCA | TO15 | 1 |
| Styrene | 0.26 | *0.235* | 1.11 | *1.00* | 06/21/12 | KCA | TO15 | |
| Tetrachloroethene | 0.14 | *0.037* | 0.949 | *0.251* | 06/21/12 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *0.999* | 06/21/12 | KCA | TO15 | 1 |
| Toluene | 6.32 | *0.266* | 23.8 | *1.00* | 06/21/12 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *0.998* | 06/21/12 | KCA | TO15 | |
| Trichloroethene | 1.63 | *0.047* | 8.75 | *0.252* | 06/21/12 | KCA | TO15 | |
| Trichlorofluoromethane | 0.35 | *0.178* | 1.96 | *0.999* | 06/21/12 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *0.996* | 06/21/12 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.250* | 06/21/12 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 105 | *%* | 105 | *%* | 06/21/12 | KCA | TO15 | |

Project ID:
Client ID: AA3

Phoenix I.D.: BB99271

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|

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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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**
**April 17, 2014**
**Reviewed and Released by: Sarah Bell, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

April 17, 2014

## QA/QC Data

SDG I.D.: GBB99264

QA/QC Batch 203440, QC Sample No: BB99269 (BB99264, BB99265, BB99266, BB99267, BB99268, BB99269)

### Volatiles

| Parameter | Blank ppbv | Blank ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,1-Trichloroethane | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,2-Trichloroethane | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1-Dichloroethane | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1-Dichloroethene | ND | ND | 99 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2,4-Trichlorobenzene | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2,4-Trimethylbenzene | ND | ND | 101 | 6.24 | 6.29 | 1.27 | 1.28 | 0.8 | 70 - 130 | 20 |
| 1,2-Dibromoethane(EDB) | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichlorobenzene | ND | ND | 94 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichloroethane | ND | ND | 96 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-dichloropropane | ND | ND | 106 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichlorotetrafluoroethane | ND | ND | 95 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3,5-Trimethylbenzene | ND | ND | 102 | 1.87 | 2.06 | 0.38 | 0.42 | 10.0 | 70 - 130 | 20 |
| 1,3-Butadiene | ND | ND | 111 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3-Dichlorobenzene | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,4-Dichlorobenzene | ND | ND | 109 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,4-Dioxane | ND | ND | 112 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 2-Hexanone(MBK) | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Ethyltoluene | ND | ND | 107 | 1.67 | 1.67 | 0.34 | 0.34 | 0.0 | 70 - 130 | 20 |
| 4-Isopropyltoluene | ND | ND | 109 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Methyl-2-pentanone(MIBK) | ND | ND | 102 | 1.06 | ND | 0.26 | ND | NC | 70 - 130 | 20 |
| Acetone | ND | ND | 96 | 19.5 | 19.3 | 8.21 | 8.14 | 0.9 | 70 - 130 | 20 |
| Acrylonitrile | ND | ND | 114 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Benzene | ND | ND | 108 | 1.95 | 1.95 | 0.61 | 0.61 | 0.0 | 70 - 130 | 20 |
| Benzyl chloride | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromodichloromethane | ND | ND | 103 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromoform | ND | ND | 113 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromomethane | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Carbon Disulfide | ND | ND | 110 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Carbon Tetrachloride | ND | ND | 94 | 0.503 | 0.503 | 0.08 | 0.08 | 0.0 | 70 - 130 | 20 |
| Chlorobenzene | ND | ND | 105 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Chloroethane | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Chloroform | ND | ND | 95 | 3.76 | 2.88 | 0.77 | 0.59 | 26.5 | 70 - 130 | 20 |
| Chloromethane | ND | ND | 106 | 1.38 | 1.44 | 0.67 | 0.7 | 4.4 | 70 - 130 | 20 |
| Cis-1,2-Dichloroethene | ND | ND | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| cis-1,3-Dichloropropene | ND | ND | 110 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Cyclohexane | ND | ND | 114 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Dibromochloromethane | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Dichlorodifluoromethane | ND | ND | 99 | 2.52 | 2.47 | 0.51 | 0.5 | 2.0 | 70 - 130 | 20 |
| Ethanol | ND | ND | 97 | 23.7 | 22.8 | 12.6 | 12.1 | 4.0 | 70 - 130 | 20 |

# QA/QC Data

SDG I.D.: GBB99264

| Parameter | Blank ppbv | Blank ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethyl acetate | ND | ND | 108 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Ethylbenzene | ND | ND | 110 | 2.43 | 2.43 | 0.56 | 0.56 | 0.0 | 70 - 130 | 20 |
| Heptane | ND | ND | 114 | 1.68 | 1.72 | 0.41 | 0.42 | 2.4 | 70 - 130 | 20 |
| Hexachlorobutadiene | ND | ND | 98 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Hexane | ND | ND | 105 | 5.95 | 6.09 | 1.69 | 1.73 | 2.3 | 70 - 130 | 20 |
| Isopropylalcohol | ND | ND | 84 | 3.96 | 3.83 | 1.61 | 1.56 | 3.2 | 70 - 130 | 20 |
| Isopropylbenzene | ND | ND | 108 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| m,p-Xylene | ND | ND | 105 | 7.59 | 7.77 | 1.75 | 1.79 | 2.3 | 70 - 130 | 20 |
| Methyl Ethyl Ketone | ND | ND | 99 | ND | 1.62 | ND | 0.55 | NC | 70 - 130 | 20 |
| Methyl tert-butyl ether(MTBE) | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Methylene Chloride | ND | ND | 92 | 10.1 | 9.37 | 2.91 | 2.7 | 7.5 | 70 - 130 | 20 |
| n-Butylbenzene | ND | ND | 106 | ND | 1.10 | ND | 0.2 | NC | 70 - 130 | 20 |
| o-Xylene | ND | ND | 104 | 3.17 | 3.30 | 0.73 | 0.76 | 4.0 | 70 - 130 | 20 |
| Propylene | ND | ND | 115 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| sec-Butylbenzene | ND | ND | 110 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Styrene | ND | ND | 111 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Tetrachloroethene | ND | ND | 104 | 0.407 | 0.407 | 0.06 | 0.06 | 0.0 | 70 - 130 | 20 |
| Tetrahydrofuran | ND | ND | 113 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Toluene | ND | ND | 106 | 10.6 | 10.7 | 2.83 | 2.85 | 0.7 | 70 - 130 | 20 |
| Trans-1,2-Dichloroethene | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| trans-1,3-Dichloropropene | ND | ND | 106 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Trichloroethene | ND | ND | 107 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Trichlorofluoromethane | ND | ND | 92 | 1.24 | 1.12 | 0.22 | 0.2 | 9.5 | 70 - 130 | 20 |
| Trichlorotrifluoroethane | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Vinyl Chloride | ND | ND | 109 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| % Bromofluorobenzene | ND | ND | 100 | 105 | 104 | 105 | 104 | 1.0 | 70 - 130 | 20 |

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
April 17, 2014

Criteria: None

State: NY

# Sample Criteria Exceedences Report

## GBB99264 - EBC



| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|

*** 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.

**PHOENIX** Environmental Laboratories, Inc.

587 East Middle Turnpike P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

# CHAIN OF CUSTODY RECORD
## AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # 1



Data Delivery:
- ☐ Fax #:
- ☑ Email: CSOSIK@ebcihcny.com
- ☐ Phone #:

Report to:

Customer:

Address: 1808 Middle Country Road Ridge, NY 11961

Invoice to:

Sampled by: D. MOSCA

Project Name:

Criteria Requested: Deliverable: RCP ☐ MCP ☐

State where samples collected: NY

| Phoenix ID # | Client Sample ID | 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) | Ambient/Indoor Air | Soil Gas | Grab ( G ) Composite ( C ) | TO-14 | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | THIS SECTION FOR LAB USE ONLY | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 99264 | SS1 | 358 | 6 | -30 | -4 | 3410 | | 650 | 1357 | 6/14/12 | -30 | -7 | | | | | X |
| 99265 | SS2 | 484 | | | -6 | 3408 | | 652 | 1400 | | | -8 | | | | | |
| 99266 | SS3 | 11287 | | | -6 | 5030 | | 703 | 1354 | | | -9 | | | | | |
| 99267 | SS4 | 357 | | | -5 | 4981 | | 709 | 1353 | | | -9 | | | | | |
| 99268 | SS5 | 227 | | | -4 | 5044 | | 715 | 1345 | | -26.5 | -6 | | | | | |
| 99269 | AA1 | 495 | | | 5 | 4988 | | 654 | 1401 | | -30 | -8 | | | | | |
| 99270 | AA2 | 225 | | | -7 | 4959 | | 711 | 1352 | | | -9 | | | | | |
| 99271 | AA3 | 221 | | | -7 | 4991 | | 710 | 1349 | | | -10 | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 6-15-12 | 10:05 |
| | | 6-15-12 | 16:30 |

Data Format: Excel ☑ Equis ☐ GISKey ☐ PDF ☑ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Quote Number:

*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:*

Signature: Date:

6L 8HR

PHOENIX
Environmental Laboratories, Inc.

**Monday, June 25, 2012**

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

**Project ID: 505 UNION AVENUE BROOKLYN NY**
**Sample ID#s: BB97955 - BB97961**

**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 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.**

**If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.**

**Sincerely yours,**

**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**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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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

NY # 11301

# SDG Comments

June 25, 2012

SDG I.D.: GBB97955

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BB97955 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB97956 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB97957 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB97958 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB97959 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB97960 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB97961 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 06/12/12 | 0:00 |
| Location Code: | EBC | Received by: | SW | 06/13/12 | 17:20 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB97955
Phoenix ID: BB97955

Project ID: 505 UNION AVENUE BROOKLYN NY

Client ID: B1(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.80 | 0.80 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Aluminum | 6260 | 50 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Arsenic | 25.7 | 0.66 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Barium | 203 | 0.33 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Beryllium | < 0.26 | 0.26 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Calcium | 63200 | 50 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cadmium | < 0.33 | 0.33 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cobalt | 8.56 | 0.33 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Chromium | 33.6 | 0.33 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Copper | 187 | 3.3 | mg/kg | 06/14/12 | | EK | SW6010 |
| Iron | 108000 | 500 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Mercury | 0.82 | 0.08 | mg/Kg | 06/14/12 | | RS | SW-7471 |
| Potassium | 1060 | 5.0 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Magnesium | 6650 | 50 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Manganese | 614 | 3.3 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Sodium | 395 | 5.0 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Nickel | 22.8 | 0.33 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Lead | 6860 | 33 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Antimony | < 3.3 | 3.3 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Selenium | < 1.3 | 1.3 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Thallium | < 3.0 | 3.0 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Total Metals Digest | Completed | | | 06/13/12 | | n/AG | SW846 - 3050 |
| Vanadium | 50.6 | 0.33 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Zinc | 429 | 3.3 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Percent Solid | 91 | | % | 06/13/12 | | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 06/13/12 | | JB/F | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 06/13/12 | | JB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 06/13/12 | | JB/F | SW3545 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B1(0-4)

Phoenix I.D.: BB97955

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Mercury Digestion | Completed | | | 06/14/12 | | X/X | SW7471 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1221 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1232 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1242 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1248 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1254 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1260 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1262 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| PCB-1268 | ND | 72 | ug/Kg | 06/18/12 | | MH | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 88 | | % | 06/18/12 | | MH | 30 - 150 % | |
| % TCMX | 73 | | % | 06/18/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | 2600 | 350 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDE | 780 | 350 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDT | 9200 | 1700 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| a-BHC | ND | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Alachlor | ND | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | 1 |
| Aldrin | ND | 5.4 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| b-BHC | ND | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Chlordane | ND | 54 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| d-BHC | ND | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Dieldrin | 290 | 54 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan I | ND | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan II | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan sulfate | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin aldehyde | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin ketone | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| g-BHC | ND | 5.4 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor | ND | 11 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor epoxide | ND | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Methoxychlor | ND | 170 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Toxaphene | ND | 170 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 101 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| % TCMX | 88 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B1(0-4)

Phoenix I.D.: BB97955

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acetone | 95 | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroform | 6.2 | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Naphthalene | 23 | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B1(0-4)

Phoenix I.D.: BB97955

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Styrene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 88 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 104 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 94 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 1200 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Chlorophenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Methylnaphthalene | 640 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Nitroaniline | ND | 1200 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Nitrophenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3-Nitroaniline | ND | 1200 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 2100 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chloroaniline | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Nitroaniline | ND | 1200 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Nitrophenol | ND | 2100 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acenaphthene | 970 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acenaphthylene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acetophenone | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B1(0-4)

Phoenix I.D.: BB97955

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Aniline | ND | 2100 | ug/Kg | 06/15/12 | | DD | SW 8270 | LO |
| Anthracene | 2200 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Azobenzene | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | 1 |
| Benz(a)anthracene | 5300 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzidine | ND | 880 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(a)pyrene | 4200 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(b)fluoranthene | 5600 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(ghi)perylene | 2800 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(k)fluoranthene | 2100 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzoic acid | ND | 2100 | ug/Kg | 06/15/12 | | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Carbazole | 1200 | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Chrysene | 5100 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dibenz(a,h)anthracene | 1000 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dibenzofuran | 600 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Diethyl phthalate | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dimethylphthalate | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Fluoranthene | 11000 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Fluorene | 1000 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorobenzene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachloroethane | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 2600 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Isophorone | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Naphthalene | 890 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Nitrobenzene | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | 1 |
| Pentachlorophenol | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Phenanthrene | 11000 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Phenol | ND | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pyrene | 9100 | 510 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pyridine | ND | 730 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 10 | | % | 06/15/12 | | DD | 15 - 130 % | 3 |
| % 2-Fluorobiphenyl | 91 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 61 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 78 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 73 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 95 | | % | 06/15/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVENUE BROOKLYN NY

Phoenix I.D.: BB97955

Client ID: B1(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.

## Comments:

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

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

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**

**June 25, 2012**

**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 06/12/12 | 0:00 |
| Location Code: | EBC | Received by: | SW | 06/13/12 | 17:20 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB97955
Phoenix ID: BB97956

Project ID: 505 UNION AVENUE BROOKLYN NY

Client ID: B2(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.80 | 0.80 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Aluminum | 5790 | 59 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Arsenic | 17.4 | 0.78 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Barium | 2220 | 3.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Beryllium | < 0.31 | 0.31 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Calcium | 7520 | 5.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cadmium | 0.51 | 0.39 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cobalt | 7.71 | 0.39 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Chromium | 35.4 | 0.39 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Copper | 389 | 3.9 | mg/kg | 06/14/12 | | EK | SW6010 |
| Iron | 45100 | 59 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Mercury | 1.58 | 0.06 | mg/Kg | 06/14/12 | | RS | SW-7471 |
| Potassium | 1090 | 5.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Magnesium | 2260 | 5.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Manganese | 487 | 3.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Sodium | 293 | 5.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Nickel | 41.3 | 0.39 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Lead | 407 | 3.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Antimony | < 3.9 | 3.9 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Selenium | < 1.6 | 1.6 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Thallium | < 3.5 | 3.5 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Total Metals Digest | Completed | | | 06/13/12 | | N/AG | SW846 - 3050 |
| Vanadium | 20.7 | 0.39 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Zinc | 3880 | 39 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Percent Solid | 91 | | % | 06/13/12 | | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 06/13/12 | | JB/F | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 06/13/12 | | JB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 06/13/12 | | JB/F | SW3545 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B2(0-4)

Phoenix I.D.: BB97956

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Mercury Digestion | Completed | | | 06/14/12 | | X/X | SW7471 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1221 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1232 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1242 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1248 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1254 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1260 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1262 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1268 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 69 | | % | 06/14/12 | | MH | 30 - 150 % | |
| % TCMX | 69 | | % | 06/14/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 1.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDE | ND | 1.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDT | 11 | 1.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| a-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Alachlor | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| b-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Chlordane | ND | 11 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| d-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan I | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan II | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan sulfate | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin aldehyde | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin ketone | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor epoxide | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Methoxychlor | ND | 44 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Toxaphene | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 74 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| % TCMX | 54 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B2(0-4)

Phoenix I.D.: BB97956

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chloroform | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1P |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Naphthalene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Styrene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 113 | | % | 06/15/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 88 | | % | 06/15/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 98 | | % | 06/15/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 06/15/12 | | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 580 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Nitroaniline | ND | 580 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3-Nitroaniline | ND | 580 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Nitroaniline | ND | 580 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acenaphthene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B2(0-4)

Phoenix I.D.: BB97956

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Aniline | ND | 1000 | ug/Kg | 06/14/12 | | DD | SW 8270 | LO |
| Anthracene | 340 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Azobenzene | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | 1 |
| Benz(a)anthracene | 1200 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzidine | ND | 430 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(a)pyrene | 980 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(b)fluoranthene | 1200 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(ghi)perylene | 780 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(k)fluoranthene | 430 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 06/14/12 | | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Carbazole | ND | 540 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Chrysene | 1200 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Di-n-butylphthalate | 1300 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Fluoranthene | 2700 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 620 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | 1 |
| Pentachlorophenol | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Phenanthrene | 1900 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pyrene | 2300 | 250 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pyridine | ND | 360 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 80 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 83 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 73 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 77 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 73 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 92 | | % | 06/14/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B2(0-4)

Phoenix I.D.: BB97956

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

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

## Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**June 25, 2012**
**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 06/12/12 | 0:00 |
| Location Code: | EBC | Received by: | SW | 06/13/12 | 17:20 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB97955
Phoenix ID: BB97957

Project ID: 505 UNION AVENUE BROOKLYN NY

Client ID: B3(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.32 | 0.32 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Aluminum | 6680 | 48 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Arsenic | 37.9 | 0.65 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Barium | 124 | 0.32 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Beryllium | < 0.26 | 0.26 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Calcium | 28500 | 48 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cadmium | 0.84 | 0.32 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cobalt | 4.34 | 0.32 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Chromium | 47.9 | 0.32 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Copper | 70.9 | 0.32 | mg/kg | 06/14/12 | | EK | SW6010 |
| Iron | 12500 | 48 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Mercury | 0.54 | 0.08 | mg/Kg | 06/14/12 | | RS | SW-7471 |
| Potassium | 900 | 4.8 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Magnesium | 2830 | 4.8 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Manganese | 226 | 3.2 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Sodium | 316 | 4.8 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Nickel | 11.0 | 0.32 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Lead | 228 | 3.2 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Antimony | < 3.2 | 3.2 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Selenium | < 1.3 | 1.3 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Thallium | < 2.9 | 2.9 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Total Metals Digest | Completed | | | 06/13/12 | | N/AG | SW846 - 3050 |
| Vanadium | 17.8 | 0.32 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Zinc | 125 | 3.2 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Percent Solid | 91 | | % | 06/13/12 | | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 06/13/12 | | JB/F | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 06/13/12 | | JB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 06/15/12 | | RB/F | SW3545 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B3(0-4)

Phoenix I.D.: BB97957

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Mercury Digestion | Completed | | | 06/14/12 | | X/X | SW7471 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1221 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1232 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1242 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1248 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1254 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1260 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1262 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1268 | ND | 73 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 85 | | % | 06/14/12 | | MH | 30 - 150 % | |
| % TCMX | 92 | | % | 06/14/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 1.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDE | 2.1 | 1.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDT | 13 | 1.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| a-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Alachlor | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| b-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Chlordane | 100 | 11 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| d-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan I | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan II | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan sulfate | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin aldehyde | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin ketone | ND | 7.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor epoxide | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Methoxychlor | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Toxaphene | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 78 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| % TCMX | 58 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B3(0-4)

Phoenix I.D.: BB97957

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroform | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| m&p-Xylene | 5.8 | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Naphthalene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B3(0-4)

Phoenix I.D.: BB97957

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Styrene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| Toluene | 15 | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Total Xylenes | 5.8 | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 107 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 93 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 35 | | % | 06/14/12 | | R/J | 70 - 130 % | 3 |
| % Toluene-d8 | 94 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 580 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2-Nitroaniline | ND | 580 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 3-Nitroaniline | ND | 580 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 4-Nitroaniline | ND | 580 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1100 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Acenaphthene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B3(0-4)

Phoenix I.D.: BB97957

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Aniline | ND | 1100 | ug/Kg | 06/17/12 | | DD | SW 8270 | LO |
| Anthracene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Azobenzene | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | 1 |
| Benz(a)anthracene | 410 | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Benzidine | ND | 440 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Benzo(a)pyrene | 410 | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Benzo(b)fluoranthene | 590 | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Benzoic acid | ND | 1100 | ug/Kg | 06/17/12 | | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Carbazole | ND | 550 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Chrysene | 420 | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Fluoranthene | 820 | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | 1 |
| Pentachlorophenol | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Phenanthrene | 810 | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Pyrene | 720 | 250 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| Pyridine | ND | 360 | ug/Kg | 06/17/12 | | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 12 | | % | 06/17/12 | | DD | 15 - 130 % | 3 |
| % 2-Fluorobiphenyl | 61 | | % | 06/17/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 41 | | % | 06/17/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 51 | | % | 06/17/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 47 | | % | 06/17/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 59 | | % | 06/17/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B3(0-4)

Phoenix I.D.: BB97957

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.

## Comments:

Poor surrogate recovery was observed for volatiles due to matrix interference.

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**June 25, 2012**
**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 06/12/12 | 0:00 |
| Location Code: | EBC | Received by: | SW | 06/13/12 | 17:20 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB97955
Phoenix ID: BB97958

Project ID: 505 UNION AVENUE BROOKLYN NY

Client ID: B4(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 1.5 | 1.5 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Aluminum | 5130 | 56 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Arsenic | 23.5 | 0.75 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Barium | 1010 | 0.37 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Beryllium | 1.74 | 0.30 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Calcium | 14400 | 56 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cadmium | 9.12 | 0.37 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Cobalt | 11.8 | 0.37 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Chromium | 159 | 3.7 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Copper | 13900 | 37 | mg/kg | 06/15/12 | | LK | SW6010 |
| Iron | 58200 | 56 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Mercury | 6.76 | 0.17 | mg/Kg | 06/14/12 | | RS | SW-7471 |
| Potassium | 863 | 5.6 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Magnesium | 2800 | 5.6 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Manganese | 630 | 3.7 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Sodium | 276 | 5.6 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Nickel | 74.1 | 0.37 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Lead | 2490 | 37 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Antimony | < 15 | 15 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Thallium | < 3.4 | 3.4 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Total Metals Digest | Completed | | | 06/13/12 | | N/AG | SW846 - 3050 |
| Vanadium | 52.6 | 0.37 | mg/Kg | 06/14/12 | | EK | SW6010 |
| Zinc | 12800 | 37 | mg/Kg | 06/15/12 | | LK | SW6010 |
| Percent Solid | 89 | | % | 06/13/12 | | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 06/13/12 | | JB/F | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 06/13/12 | | JB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 06/13/12 | | JB/F | SW3545 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B4(0-4)

Phoenix I.D.: BB97958

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Mercury Digestion | Completed | | | 06/14/12 | | X/X | SW7471 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1221 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1232 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1242 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1248 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1254 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1260 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1262 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1268 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 64 | | % | 06/14/12 | | MH | 30 - 150 % | |
| % TCMX | 63 | | % | 06/14/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDE | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDT | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| a-BHC | ND* | 9.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Alachlor | ND* | 9.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | 1 |
| Aldrin | ND* | 2.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| b-BHC | ND* | 9.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Chlordane | ND* | 28 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| d-BHC | ND* | 9.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Dieldrin | ND* | 2.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan I | ND* | 9.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan II | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan sulfate | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin aldehyde | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin ketone | ND* | 18 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| g-BHC | ND* | 2.8 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor | ND* | 5.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor epoxide | ND* | 9.0 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Methoxychlor | ND* | 260 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Toxaphene | ND* | 90 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 134 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| % TCMX | 84 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B4(0-4)

Phoenix I.D.: BB97958

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acetone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Benzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromochloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromoform | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromomethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroform | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| Isopropylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Naphthalene | 22 | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| o-Xylene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Styrene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Vinyl chloride | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 106 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 94 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dimethylphenol | 6900 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 1200 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Chlorophenol | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Methylnaphthalene | 6600 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | 8300 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Nitroaniline | ND | 1200 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Nitrophenol | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | 5400 | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3-Nitroaniline | ND | 1200 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chloroaniline | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Nitroaniline | ND | 1200 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Nitrophenol | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acenaphthene | 18000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acenaphthylene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acetophenone | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B4(0-4)

Phoenix I.D.: BB97958

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Aniline | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | LO |
| Anthracene | 28000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Azobenzene | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | 1 |
| Benz(a)anthracene | 62000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzidine | ND | 890 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(a)pyrene | 49000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(b)fluoranthene | 58000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(ghi)perylene | 36000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(k)fluoranthene | 18000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzoic acid | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Carbazole | 26000 | 1100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Chrysene | 59000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dibenz(a,h)anthracene | 7800 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dibenzofuran | 9200 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Diethyl phthalate | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dimethylphthalate | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Di-n-butylphthalate | 17000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Fluoranthene | 160000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Fluorene | 160000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorobenzene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachloroethane | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 29000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Isophorone | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Naphthalene | 19000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Nitrobenzene | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | 1 |
| Pentachlorophenol | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Phenanthrene | 160000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Phenol | ND | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pyrene | 150000 | 520 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pyridine | ND | 740 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 102 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 88 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 84 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 87 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 82 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 57 | | % | 06/14/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B4(0-4)

Phoenix I.D.: BB97958

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

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

## Comments:

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

* 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 for the semivolatile analysis.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**June 25, 2012**
**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 06/12/12 | 0:00 |
| Location Code: | EBC | Received by: | SW | 06/13/12 | 17:20 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB97955
Phoenix ID: BB97959

Project ID: 505 UNION AVENUE BROOKLYN NY

Client ID: B5(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Aluminum | 5190 | 54 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Arsenic | 6.55 | 0.73 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Barium | 219 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Beryllium | < 0.29 | 0.29 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Calcium | 27800 | 54 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Cadmium | < 0.36 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Cobalt | 4.08 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Chromium | 17.8 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Copper | 62.8 | 0.36 | mg/kg | 06/15/12 | | EK | SW6010 |
| Iron | 29900 | 54 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Mercury | 0.16 | 0.08 | mg/Kg | 06/14/12 | | RS | SW-7471 |
| Potassium | 1200 | 5.4 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Magnesium | 2650 | 5.4 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Manganese | 265 | 3.6 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Sodium | 312 | 5.4 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Nickel | 17.9 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Lead | 198 | 3.6 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Antimony | < 3.6 | 3.6 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Thallium | < 3.3 | 3.3 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Total Metals Digest | Completed | | | 06/14/12 | | N/AG | SW846 - 3050 |
| Vanadium | 21.0 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Zinc | 290 | 3.6 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Percent Solid | 93 | | % | 06/13/12 | | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 06/13/12 | | JB/F | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 06/13/12 | | JB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 06/13/12 | | JB/F | SW3545 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B5(0-4)

Phoenix I.D.: BB97959

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Mercury Digestion | Completed | | | 06/14/12 | | X/X | SW7471 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1221 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1232 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1242 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1248 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1254 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1260 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1262 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1268 | ND | 71 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 79 | | % | 06/14/12 | | MH | 30 - 150 % | |
| % TCMX | 85 | | % | 06/14/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDE | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDT | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| a-BHC | ND* | 8.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Alachlor | ND* | 8.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | 1 |
| Aldrin | ND* | 2.7 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| b-BHC | ND* | 8.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Chlordane | ND* | 27 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| d-BHC | ND* | 8.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Dieldrin | ND* | 2.7 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan I | ND* | 8.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan II | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan sulfate | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin aldehyde | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin ketone | ND* | 17 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| g-BHC | ND* | 2.7 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor | ND* | 5.4 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor epoxide | ND* | 8.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Methoxychlor | ND* | 86 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Toxaphene | ND* | 86 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 127 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| % TCMX | 72 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,1-Dichloroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,1-Dichloroethene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,1-Dichloropropene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | 1 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B5(0-4)

Phoenix I.D.: BB97959

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,2,4-Trimethylbenzene | 700 | 250 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,2-Dibromoethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,2-Dichloroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,2-Dichloropropane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,3-Dichloropropane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 2,2-Dichloropropane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 2-Chlorotoluene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 2-Isopropyltoluene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Benzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Bromobenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Bromochloromethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Bromodichloromethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Bromoform | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Bromomethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Carbon Disulfide | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Carbon tetrachloride | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Chlorobenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Chloroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Chloroform | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Chloromethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Dibromochloromethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Dibromomethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Dichlorodifluoromethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Ethylbenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Hexachlorobutadiene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | 1P |
| Isopropylbenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| m&p-Xylene | 890 | 250 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Methylene chloride | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Naphthalene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| n-Butylbenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| n-Propylbenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| o-Xylene | 450 | 250 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| p-Isopropyltoluene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| sec-Butylbenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B5(0-4)

Phoenix I.D.: BB97959

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Styrene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| tert-Butylbenzene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Tetrachloroethene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 06/15/12 | | R/P | SW8260 | 1 |
| Toluene | 390 | 250 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Total Xylenes | 1340 | 250 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Trichloroethene | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Trichlorofluoromethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| Vinyl chloride | ND | 5.4 | ug/Kg | 06/15/12 | | R/P | SW8260 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 112 | | % | 06/15/12 | | R/P | 70 - 130 % | |
| % Bromofluorobenzene | 79 | | % | 06/15/12 | | R/P | 70 - 130 % | |
| % Dibromofluoromethane | 104 | | % | 06/15/12 | | R/P | 70 - 130 % | |
| % Toluene-d8 | 93 | | % | 06/15/12 | | R/P | 70 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 1100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Chlorophenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Nitroaniline | ND | 1100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 2-Nitrophenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 3-Nitroaniline | ND | 1100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chloroaniline | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Nitroaniline | ND | 1100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| 4-Nitrophenol | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acenaphthene | 740 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acenaphthylene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Acetophenone | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B5(0-4)

Phoenix I.D.: BB97959

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Aniline | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | LO |
| Anthracene | 3200 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Azobenzene | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | 1 |
| Benz(a)anthracene | 12000 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzidine | ND | 850 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(a)pyrene | 12000 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(b)fluoranthene | 16000 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(ghi)perylene | 7200 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzo(k)fluoranthene | 3400 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Benzoic acid | ND | 2100 | ug/Kg | 06/14/12 | | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Carbazole | ND | 1100 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Chrysene | 11000 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dibenz(a,h)anthracene | 2300 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dibenzofuran | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Diethyl phthalate | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Dimethylphthalate | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Fluoranthene | 24000 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Fluorene | 770 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorobenzene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Hexachloroethane | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 6800 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Isophorone | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Naphthalene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Nitrobenzene | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | 1 |
| Pentachlorophenol | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Phenanthrene | 12000 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Phenol | ND | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pyrene | 23000 | 500 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| Pyridine | ND | 710 | ug/Kg | 06/14/12 | | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 86 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 88 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 82 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 85 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 79 | | % | 06/14/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 59 | | % | 06/14/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVENUE BROOKLYN NY

Phoenix I.D.: BB97959

Client ID: B5(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

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

## Comments:

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

* 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 for the semivolatile analysis.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**

**June 25, 2012**

**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 06/12/12 | 0:00 |
| Location Code: | EBC | Received by: | SW | 06/13/12 | 17:20 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB97955
Phoenix ID: BB97960

Project ID: 505 UNION AVENUE BROOKLYN NY

Client ID: B6(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Aluminum | 6370 | 55 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Arsenic | 6.70 | 0.73 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Barium | 240 | 0.37 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Beryllium | < 0.29 | 0.29 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Calcium | 32500 | 55 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Cadmium | 0.40 | 0.37 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Cobalt | 3.93 | 0.37 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Chromium | 21.5 | 0.37 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Copper | 132 | 0.37 | mg/kg | 06/15/12 | | EK | SW6010 |
| Iron | 15200 | 55 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Mercury | 1.13 | 0.06 | mg/Kg | 06/14/12 | | RS | SW-7471 |
| Potassium | 1340 | 5.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Magnesium | 2760 | 5.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Manganese | 224 | 3.7 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Sodium | 471 | 5.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Nickel | 12.5 | 0.37 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Lead | 323 | 3.7 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Antimony | < 3.7 | 3.7 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Thallium | < 3.3 | 3.3 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Total Metals Digest | Completed | | | 06/14/12 | | N/AG | SW846 - 3050 |
| Vanadium | 19.3 | 0.37 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Zinc | 381 | 3.7 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Percent Solid | 90 | | % | 06/13/12 | | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 06/13/12 | | JB/F | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 06/13/12 | | JB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 06/13/12 | | JB/F | SW3545 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B6(0-4)

Phoenix I.D.: BB97960

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Mercury Digestion | Completed | | | 06/14/12 | | X/X | SW7471 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1221 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1232 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1242 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1248 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1254 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1260 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1262 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1268 | ND | 74 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 63 | | % | 06/14/12 | | MH | 30 - 150 % | |
| % TCMX | 68 | | % | 06/14/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 3.3 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDE | ND | 3.3 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDT | ND | 3.3 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| a-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Alachlor | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| b-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Chlordane | ND | 11 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| d-BHC | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan I | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan II | ND | 7.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan sulfate | ND | 7.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin | ND | 7.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin aldehyde | ND | 7.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin ketone | ND | 7.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor epoxide | ND | 3.5 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Methoxychlor | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Toxaphene | ND | 35 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 67 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| % TCMX | 52 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B6(0-4)

Phoenix I.D.: BB97960

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 28 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 28 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Acetone | ND | 28 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Benzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromochloromethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromoform | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Bromomethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chloroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chloroform | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Chloromethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1P |
| Isopropylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 28 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Naphthalene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| o-Xylene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B6(0-4)

Phoenix I.D.: BB97960

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Styrene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| Vinyl chloride | ND | 5.6 | ug/Kg | 06/15/12 | | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 116 | | % | 06/15/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 82 | | % | 06/15/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 61 | | % | 06/15/12 | | R/J | 70 - 130 % | 3 |
| % Toluene-d8 | 104 | | % | 06/15/12 | | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 580 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Chlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Nitroaniline | ND | 580 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Nitrophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3-Nitroaniline | ND | 580 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chloroaniline | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Nitroaniline | ND | 580 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acenaphthene | 280 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acenaphthylene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acetophenone | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B6(0-4)

Phoenix I.D.: BB97960

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Aniline | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | LO |
| Anthracene | 690 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Azobenzene | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | 1 |
| Benz(a)anthracene | 2200 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzidine | ND | 440 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(a)pyrene | 2000 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(b)fluoranthene | 2300 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(ghi)perylene | 1300 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(k)fluoranthene | 790 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzoic acid | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Carbazole | ND | 550 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Chrysene | 2300 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dibenz(a,h)anthracene | 340 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dibenzofuran | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Diethyl phthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dimethylphthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Di-n-butylphthalate | 530 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Fluoranthene | 3700 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Fluorene | 260 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachloroethane | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 1100 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Isophorone | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Naphthalene | 270 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Nitrobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | 1 |
| Pentachlorophenol | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Phenanthrene | 4300 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Phenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pyrene | 3300 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pyridine | ND | 360 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 54 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 76 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 67 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 73 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 72 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 55 | | % | 06/15/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B6(0-4)

Phoenix I.D.: BB97960

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.

## Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**June 25, 2012**
**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 06/12/12 | 0:00 |
| Location Code: | EBC | Received by: | SW | 06/13/12 | 17:20 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB97955
Phoenix ID: BB97961

Project ID: 505 UNION AVENUE BROOKLYN NY

Client ID: B7(0-4)

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Aluminum | 7130 | 55 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Arsenic | 4.90 | 0.73 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Barium | 769 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Beryllium | < 0.29 | 0.29 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Calcium | 22800 | 55 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Cadmium | < 0.36 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Cobalt | 4.28 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Chromium | 14.6 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Copper | 18.6 | 0.36 | mg/kg | 06/15/12 | | EK | SW6010 |
| Iron | 13300 | 55 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Mercury | 0.15 | 0.08 | mg/Kg | 06/14/12 | | RS | SW-7471 |
| Potassium | 1090 | 5.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Magnesium | 3210 | 5.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Manganese | 229 | 3.6 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Sodium | 549 | 5.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Nickel | 14.7 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Lead | 139 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Antimony | < 3.6 | 3.6 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Thallium | < 3.3 | 3.3 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Total Metals Digest | Completed | | | 06/14/12 | | N/AG | SW846 - 3050 |
| Vanadium | 20.7 | 0.36 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Zinc | 184 | 3.6 | mg/Kg | 06/15/12 | | EK | SW6010 |
| Percent Solid | 89 | | % | 06/13/12 | | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 06/13/12 | | JB/F | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 06/13/12 | | JB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 06/13/12 | | JB/F | SW3545 |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B7(0-4)

Phoenix I.D.: BB97961

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Mercury Digestion | Completed | | | 06/14/12 | | X/X | SW7471 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1221 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1232 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1242 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1248 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1254 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1260 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1262 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| PCB-1268 | ND | 75 | ug/Kg | 06/14/12 | | MH | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 61 | | % | 06/14/12 | | MH | 30 - 150 % | |
| % TCMX | 64 | | % | 06/14/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 3.3 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDE | ND | 3.3 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| 4,4' -DDT | ND | 3.3 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| a-BHC | ND | 3.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Alachlor | ND | 3.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| b-BHC | ND | 3.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Chlordane | ND | 11 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| d-BHC | ND | 3.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan I | ND | 3.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan II | ND | 7.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endosulfan sulfate | ND | 7.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin | ND | 7.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin aldehyde | ND | 7.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Endrin ketone | ND | 7.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Heptachlor epoxide | ND | 3.6 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Methoxychlor | ND | 36 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| Toxaphene | ND | 36 | ug/Kg | 06/18/12 | | KCA | SW8081 | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 81 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| % TCMX | 56 | | % | 06/18/12 | | KCA | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |

Project ID: 505 UNION AVENUE BROOKLYN NY
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Phoenix I.D.: BB97961

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acetone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Benzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromochloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromoform | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Bromomethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloroform | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Chloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1P |
| Isopropylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 28 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Naphthalene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| o-Xylene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B7(0-4)

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Styrene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| Vinyl chloride | ND | 5.6 | ug/Kg | 06/14/12 | | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 109 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 93 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 06/14/12 | | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 590 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Chlorophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Nitroaniline | ND | 590 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 2-Nitrophenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 3-Nitroaniline | ND | 590 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chloroaniline | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Nitroaniline | ND | 590 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acenaphthene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acenaphthylene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Acetophenone | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B7(0-4)

Phoenix I.D.: BB97961

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Aniline | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | LO |
| Anthracene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Azobenzene | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | 1 |
| Benz(a)anthracene | 670 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzidine | ND | 440 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(a)pyrene | 530 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(b)fluoranthene | 630 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(ghi)perylene | 430 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Benzoic acid | ND | 1100 | ug/Kg | 06/15/12 | | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Carbazole | ND | 550 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Chrysene | 610 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dibenzofuran | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Diethyl phthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Dimethylphthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Fluoranthene | 1100 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Fluorene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Hexachloroethane | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 340 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Isophorone | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Naphthalene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Nitrobenzene | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | 1 |
| Pentachlorophenol | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Phenanthrene | 1100 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Phenol | ND | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pyrene | 970 | 260 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| Pyridine | ND | 370 | ug/Kg | 06/15/12 | | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 80 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 79 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 74 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 76 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 73 | | % | 06/15/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 63 | | % | 06/15/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVENUE BROOKLYN NY
Client ID: B7(0-4)

Phoenix I.D.: BB97961

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

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

## Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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

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**Phyllis Shiller, Laboratory Director**
**June 25, 2012**
**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

June 25, 2012

## QA/QC Data

SDG I.D.: GBB97955

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 202521, QC Sample No: BB96668 (BB97955, BB97956, BB97957, BB97958) | | | | | | | | | | | | | |
| **ICP Metals - Soil** | | | | | | | | | | | | | |
| Aluminum | BDL | 10400 | 13400 | 25.2 | 105 | 102 | 2.9 | NC | NC | NC | 75 - 125 | 30 | |
| Antimony | BDL | <1.8 | <1.4 | NC | 73.7 | 75.3 | 2.1 | 72.6 | 70.5 | 2.9 | 75 - 125 | 30 | l,m |
| Arsenic | BDL | 2.88 | 2.70 | NC | 94.0 | 93.8 | 0.2 | 93.0 | 90.5 | 2.7 | 75 - 125 | 30 | |
| Barium | BDL | 92.7 | 99.3 | 6.90 | 98.3 | 96.6 | 1.7 | 84.3 | 105 | 21.9 | 75 - 125 | 30 | |
| Beryllium | BDL | 0.33 | 0.37 | NC | 89.7 | 89.8 | 0.1 | 85.4 | 91.8 | 7.2 | 75 - 125 | 30 | |
| Cadmium | BDL | 0.233 | 0.287 | NC | 94.7 | 96.8 | 2.2 | 88.9 | 95.5 | 7.2 | 75 - 125 | 30 | |
| Calcium | BDL | 1770 | 1930 | 8.60 | 95.2 | 93.9 | 1.4 | NC | NC | NC | 75 - 125 | 30 | |
| Chromium | BDL | 21.0 | 22.6 | 7.30 | 97.4 | 96.9 | 0.5 | 94.4 | 96.2 | 1.9 | 75 - 125 | 30 | |
| Cobalt | BDL | 5.86 | 6.36 | 8.20 | 94.2 | 96.4 | 2.3 | 91.5 | 95.1 | 3.9 | 75 - 125 | 30 | |
| Copper | BDL | 25.3 | 32.7 | 25.5 | 97.3 | 100 | 2.7 | 94.7 | 107 | 12.2 | 75 - 125 | 30 | |
| Iron | BDL | 12800 | 16200 | 23.4 | 114 | 112 | 1.8 | NC | NC | NC | 75 - 125 | 30 | |
| Lead | BDL | 72.2 | 91.2 | 23.3 | 96.6 | 97.1 | 0.5 | 93.7 | 97.7 | 4.2 | 75 - 125 | 30 | |
| Magnesium | BDL | 3260 | 3650 | 11.3 | 102 | 100 | 2.0 | NC | NC | NC | 75 - 125 | 30 | |
| Manganese | BDL | 183 | 217 | 17.0 | 97.7 | 95.6 | 2.2 | 105 | 121 | 14.2 | 75 - 125 | 30 | |
| Nickel | BDL | 11.4 | 12.7 | 10.8 | 92.9 | 95.3 | 2.6 | 88.2 | 92.1 | 4.3 | 75 - 125 | 30 | |
| Potassium | BDL | 1390 | 1580 | 12.8 | 102 | 98.7 | 3.3 | 107 | >130 | NC | 75 - 125 | 30 | m |
| Selenium | BDL | <1.5 | <1.4 | NC | 86.7 | 89.0 | 2.6 | 82.1 | 88.3 | 7.3 | 75 - 125 | 30 | |
| Silver | BDL | <0.37 | <0.35 | NC | 87.4 | 94.0 | 7.3 | 90.3 | 96.9 | 7.1 | 75 - 125 | 30 | |
| Sodium | BDL | 100 | 116 | 14.8 | 93.4 | 95.0 | 1.7 | 119 | >130 | NC | 75 - 125 | 30 | m |
| Thallium | BDL | <1.5 | <1.6 | NC | 95.1 | 95.2 | 0.1 | 93.0 | 92.7 | 0.3 | 75 - 125 | 30 | |
| Vanadium | BDL | 23.8 | 27.2 | 13.3 | 98.9 | 98.9 | 0.0 | 95.5 | 97.9 | 2.5 | 75 - 125 | 30 | |
| Zinc | BDL | 102 | 109 | 6.60 | 95.6 | 96.3 | 0.7 | 95.3 | 105 | 9.7 | 75 - 125 | 30 | |
| QA/QC Batch 202676, QC Sample No: BB97959 (BB97955, BB97956, BB97957, BB97958, BB97959, BB97960, BB97961) | | | | | | | | | | | | | |
| Mercury - Soil | BDL | 0.16 | 0.14 | NC | 91.5 | 97.5 | 6.3 | 102 | 85.1 | 18.1 | 70 - 130 | 30 | |
| QA/QC Batch 202739, QC Sample No: BB98311 (BB97959, BB97960, BB97961) | | | | | | | | | | | | | |
| **ICP Metals - Soil** | | | | | | | | | | | | | |
| Aluminum | BDL | 6630 | 6940 | 4.60 | 99.8 | 95.5 | 4.4 | NC | NC | NC | 75 - 125 | 30 | |
| Antimony | BDL | <6.4 | <6.6 | NC | 103 | 99.5 | 3.5 | 88.5 | 89.7 | 1.3 | 75 - 125 | 30 | |
| Arsenic | BDL | 13.8 | 14.4 | 4.30 | 96.4 | 94.8 | 1.7 | 94.8 | 94.5 | 0.3 | 75 - 125 | 30 | |
| Barium | BDL | 59.8 | 69.1 | 14.4 | 97.2 | 94.8 | 2.5 | 95.8 | 97.7 | 2.0 | 75 - 125 | 30 | |
| Beryllium | BDL | 1.01 | 1.12 | NC | 92.9 | 90.4 | 2.7 | 91.0 | 91.8 | 0.9 | 75 - 125 | 30 | |
| Cadmium | BDL | <0.64 | <0.66 | NC | 94.5 | 90.0 | 4.9 | 93.0 | 94.3 | 1.4 | 75 - 125 | 30 | |
| Calcium | BDL | 5960 | 6490 | 8.50 | 89.2 | 89.5 | 0.3 | NC | NC | NC | 75 - 125 | 30 | |
| Chromium | BDL | 15.0 | 16.2 | 7.70 | 98.4 | 93.1 | 5.5 | 93.4 | 93.8 | 0.4 | 75 - 125 | 30 | |
| Cobalt | BDL | 6.03 | 6.33 | 4.90 | 95.9 | 92.1 | 4.0 | 94.1 | 95.3 | 1.3 | 75 - 125 | 30 | |
| Copper | BDL | 14.2 | 14.8 | 4.10 | 102 | 96.8 | 5.2 | 93.2 | 94.3 | 1.2 | 75 - 125 | 30 | |
| Iron | BDL | 39200 | 39900 | 1.80 | 110 | 109 | 0.9 | NC | NC | NC | 75 - 125 | 30 | |
| Lead | BDL | 2.45 | 2.79 | NC | 94.7 | 92.7 | 2.1 | 95.3 | 96.5 | 1.3 | 75 - 125 | 30 | |
| Magnesium | BDL | 477 | 502 | 5.10 | 96.0 | 94.7 | 1.4 | >130 | >130 | NC | 75 - 125 | 30 | m |
| Manganese | BDL | 44.9 | 47.7 | 6.00 | 97.4 | 92.0 | 5.7 | 95.7 | 95.9 | 0.2 | 75 - 125 | 30 | |

# QA/QC Data

SDG I.D.: GBB97955

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nickel | BDL | 19.7 | 20.8 | 5.40 | 95.1 | 90.2 | 5.3 | 91.6 | 92.7 | 1.2 | 75 - 125 | 30 |
| Potassium | BDL | 537 | 580 | 7.70 | 104 | 107 | 2.8 | 106 | 111 | 4.6 | 75 - 125 | 30 |
| Selenium | BDL | <2.5 | <2.6 | NC | 91.6 | 86.8 | 5.4 | 91.4 | 95.5 | 4.4 | 75 - 125 | 30 |
| Silver | BDL | <0.64 | <0.66 | NC | 94.9 | 94.6 | 0.3 | 91.6 | 93.3 | 1.8 | 75 - 125 | 30 |
| Sodium | BDL | 329 | 362 | 9.60 | 95.6 | 97.4 | 1.9 | 116 | 108 | 7.1 | 75 - 125 | 30 |
| Thallium | BDL | <1.0 | <5.9 | NC | 98.3 | 94.9 | 3.5 | 91.7 | 93.2 | 1.6 | 75 - 125 | 30 |
| Vanadium | BDL | 35.5 | 37.7 | 6.00 | 104 | 101 | 2.9 | 94.5 | 94.5 | 0.0 | 75 - 125 | 30 |
| Zinc | BDL | 13.0 | 14.0 | 7.40 | 97.2 | 92.9 | 4.5 | 94.7 | 95.4 | 0.7 | 75 - 125 | 30 |

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

June 25, 2012

## QA/QC Data

SDG I.D.: GBB97955

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 202513, QC Sample No: BB96668 (BB97955, BB97956, BB97957, BB97958, BB97959, BB97960, BB97961) | | | | | | | | | |
| **Pesticides - Soil** | | | | | | | | | |
| 4,4' -DDD | ND | 56 | 56 | 0.0 | 86 | 73 | 16.4 | 40 - 140 | 30 |
| 4,4' -DDE | ND | 61 | 63 | 3.2 | 82 | 68 | 18.7 | 40 - 140 | 30 |
| 4,4' -DDT | ND | 63 | 65 | 3.1 | 83 | 71 | 15.6 | 40 - 140 | 30 |
| a-BHC | ND | 68 | 74 | 8.5 | 74 | 62 | 17.6 | 40 - 140 | 30 |
| a-Chlordane | ND | 67 | 71 | 5.8 | 68 | 63 | 7.6 | 40 - 140 | 30 |
| Alachlor | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| Aldrin | ND | 70 | 73 | 4.2 | 71 | 60 | 16.8 | 40 - 140 | 30 |
| b-BHC | ND | 52 | 59 | 12.6 | 70 | 60 | 15.4 | 40 - 140 | 30 |
| Chlordane | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| d-BHC | ND | 54 | 58 | 7.1 | 72 | 62 | 14.9 | 40 - 140 | 30 |
| Dieldrin | ND | 70 | 72 | 2.8 | 72 | 62 | 14.9 | 40 - 140 | 30 |
| Endosulfan I | ND | 68 | 75 | 9.8 | 64 | 62 | 3.2 | 40 - 140 | 30 |
| Endosulfan II | ND | 64 | 67 | 4.6 | 73 | 62 | 16.3 | 40 - 140 | 30 |
| Endosulfan sulfate | ND | 67 | 71 | 5.8 | 74 | 64 | 14.5 | 40 - 140 | 30 |
| Endrin | ND | 68 | 70 | 2.9 | 73 | 61 | 17.9 | 40 - 140 | 30 |
| Endrin aldehyde | ND | 78 | 87 | 10.9 | 82 | 71 | 14.4 | 40 - 140 | 30 |
| Endrin ketone | ND | 72 | 74 | 2.7 | 75 | 64 | 15.8 | 40 - 140 | 30 |
| g-BHC | ND | 65 | 70 | 7.4 | 74 | 63 | 16.1 | 40 - 140 | 30 |
| g-Chlordane | ND | 67 | 70 | 4.4 | 72 | 64 | 11.8 | 40 - 140 | 30 |
| Heptachlor | ND | 71 | 72 | 1.4 | 73 | 63 | 14.7 | 40 - 140 | 30 |
| Heptachlor epoxide | ND | 66 | 69 | 4.4 | 70 | 59 | 17.1 | 40 - 140 | 30 |
| Methoxychlor | ND | 57 | 62 | 8.4 | 75 | 67 | 11.3 | 40 - 140 | 30 |
| Toxaphene | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| % DCBP | 70 | 69 | 76 | 9.7 | 75 | 65 | 14.3 | 30 - 150 | 30 |
| % TCMX | 75 | 74 | 78 | 5.3 | 78 | 70 | 10.8 | 30 - 150 | 30 |
| QA/QC Batch 202512, QC Sample No: BB96668 (BB97955, BB97956, BB97957, BB97958, BB97959, BB97960) | | | | | | | | | |
| **Polychlorinated Biphenyls - Soil** | | | | | | | | | |
| PCB-1016 | ND | 89 | 88 | 1.1 | 79 | 79 | 0.0 | 40 - 140 | 30 |
| PCB-1221 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1232 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1242 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1248 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1254 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1260 | ND | 82 | 85 | 3.6 | 84 | 74 | 12.7 | 40 - 140 | 30 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 30 |
| % DCBP (Surrogate Rec) | 79 | 78 | 75 | 3.9 | 65 | 60 | 8.0 | 30 - 150 | 30 |
| % TCMX (Surrogate Rec) | 79 | 79 | 78 | 1.3 | 68 | 67 | 1.5 | 30 - 150 | 30 |

# QA/QC Data

SDG I.D.: GBB97955

QA/QC Batch 202536, QC Sample No: BB97042 (BB97955, BB97956, BB97957, BB97958, BB97959, BB97960, BB97961)

## Semivolatiles - Soil

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 75 | 76 | 1.3 | 84 | 81 | 3.6 | 30 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 69 | 71 | 2.9 | 78 | 74 | 5.3 | 30 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 66 | 70 | 5.9 | 75 | 72 | 4.1 | 30 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 65 | 68 | 4.5 | 73 | 70 | 4.2 | 30 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 65 | 69 | 6.0 | 74 | 71 | 4.1 | 30 - 130 | 30 | |
| 2,4,5-Trichlorophenol | ND | 74 | 75 | 1.3 | 84 | 79 | 6.1 | 30 - 130 | 30 | |
| 2,4,6-Trichlorophenol | ND | 77 | 81 | 5.1 | 90 | 86 | 4.5 | 30 - 130 | 30 | |
| 2,4-Dichlorophenol | ND | 76 | 78 | 2.6 | 85 | 82 | 3.6 | 30 - 130 | 30 | |
| 2,4-Dimethylphenol | ND | 51 | 50 | 2.0 | 61 | 58 | 5.0 | 30 - 130 | 30 | |
| 2,4-Dinitrophenol | ND | 18 | 15 | 18.2 | <5 | 2.1 | NC | 30 - 130 | 30 | l,m |
| 2,4-Dinitrotoluene | ND | 72 | 72 | 0.0 | 81 | 78 | 3.8 | 30 - 130 | 30 | |
| 2,6-Dinitrotoluene | ND | 73 | 76 | 4.0 | 83 | 81 | 2.4 | 30 - 130 | 30 | |
| 2-Chloronaphthalene | ND | 69 | 72 | 4.3 | 79 | 77 | 2.6 | 30 - 130 | 30 | |
| 2-Chlorophenol | ND | 66 | 69 | 4.4 | 74 | 73 | 1.4 | 30 - 130 | 30 | |
| 2-Methylnaphthalene | ND | 71 | 72 | 1.4 | 78 | 75 | 3.9 | 30 - 130 | 30 | |
| 2-Methylphenol (o-cresol) | ND | 62 | 66 | 6.3 | 71 | 65 | 8.8 | 30 - 130 | 30 | |
| 2-Nitroaniline | ND | 148 | >150 | NC | >150 | >150 | NC | 30 - 130 | 30 | l,m |
| 2-Nitrophenol | ND | 76 | 77 | 1.3 | 85 | 82 | 3.6 | 30 - 130 | 30 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 56 | 59 | 5.2 | 63 | 61 | 3.2 | 30 - 130 | 30 | |
| 3,3'-Dichlorobenzidine | ND | >150 | >150 | NC | >150 | >150 | NC | 30 - 130 | 30 | l,m |
| 3-Nitroaniline | ND | 102 | 111 | 8.5 | 116 | 117 | 0.9 | 30 - 130 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 59 | 64 | 8.1 | 61 | 66 | 7.9 | 30 - 130 | 30 | |
| 4-Bromophenyl phenyl ether | ND | 74 | 76 | 2.7 | 82 | 80 | 2.5 | 30 - 130 | 30 | |
| 4-Chloro-3-methylphenol | ND | 73 | 73 | 0.0 | 81 | 79 | 2.5 | 30 - 130 | 30 | |
| 4-Chloroaniline | ND | 64 | 70 | 9.0 | 70 | 70 | 0.0 | 30 - 130 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 73 | 75 | 2.7 | 83 | 80 | 3.7 | 30 - 130 | 30 | |
| 4-Nitroaniline | ND | 67 | 68 | 1.5 | 76 | 74 | 2.7 | 30 - 130 | 30 | |
| 4-Nitrophenol | ND | 68 | 70 | 2.9 | 76 | 74 | 2.7 | 30 - 130 | 30 | |
| Acenaphthene | ND | 70 | 74 | 5.6 | 81 | 80 | 1.2 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 70 | 72 | 2.8 | 81 | 77 | 5.1 | 30 - 130 | 30 | |
| Acetophenone | ND | 61 | 64 | 4.8 | 69 | 67 | 2.9 | 30 - 130 | 30 | |
| Aniline | ND | 76 | 84 | 10.0 | 81 | 78 | 3.8 | 30 - 130 | 30 | |
| Anthracene | ND | 75 | 78 | 3.9 | 85 | 82 | 3.6 | 30 - 130 | 30 | |
| Azobenzene | ND | 65 | 66 | 1.5 | 73 | 70 | 4.2 | 30 - 130 | 30 | |
| Benz(a)anthracene | ND | 72 | 76 | 5.4 | 82 | 80 | 2.5 | 30 - 130 | 30 | |
| Benzidine | ND | 92 | 94 | 2.2 | 82 | 79 | 3.7 | 30 - 130 | 30 | |
| Benzo(a)pyrene | ND | 70 | 74 | 5.6 | 82 | 77 | 6.3 | 30 - 130 | 30 | |
| Benzo(b)fluoranthene | ND | 74 | 80 | 7.8 | 84 | 82 | 2.4 | 30 - 130 | 30 | |
| Benzo(ghi)perylene | ND | 79 | 80 | 1.3 | 89 | 84 | 5.8 | 30 - 130 | 30 | |
| Benzo(k)fluoranthene | ND | 75 | 78 | 3.9 | 88 | 83 | 5.8 | 30 - 130 | 30 | |
| Benzyl butyl phthalate | ND | 79 | 82 | 3.7 | 90 | 87 | 3.4 | 30 - 130 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 64 | 65 | 1.6 | 71 | 67 | 5.8 | 30 - 130 | 30 | |
| Bis(2-chloroethyl)ether | ND | 58 | 60 | 3.4 | 66 | 63 | 4.7 | 30 - 130 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 50 | 53 | 5.8 | 56 | 56 | 0.0 | 30 - 130 | 30 | |
| Bis(2-ethylhexyl)phthalate | ND | 80 | 85 | 6.1 | 92 | 88 | 4.4 | 30 - 130 | 30 | |
| Carbazole | ND | 88 | 90 | 2.2 | 102 | 98 | 4.0 | 30 - 130 | 30 | |
| Chrysene | ND | 67 | 71 | 5.8 | 76 | 75 | 1.3 | 30 - 130 | 30 | |
| Dibenz(a,h)anthracene | ND | 77 | 81 | 5.1 | 89 | 84 | 5.8 | 30 - 130 | 30 | |
| Dibenzofuran | ND | 70 | 71 | 1.4 | 80 | 76 | 5.1 | 30 - 130 | 30 | |
| Diethyl phthalate | ND | 75 | 77 | 2.6 | 84 | 83 | 1.2 | 30 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB97955

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimethylphthalate | ND | 73 | 75 | 2.7 | 83 | 81 | 2.4 | 30 - 130 | 30 | |
| Di-n-butylphthalate | ND | 78 | 80 | 2.5 | 89 | 86 | 3.4 | 30 - 130 | 30 | |
| Di-n-octylphthalate | ND | 76 | 79 | 3.9 | 83 | 82 | 1.2 | 30 - 130 | 30 | |
| Fluoranthene | ND | 76 | 78 | 2.6 | 88 | 84 | 4.7 | 30 - 130 | 30 | |
| Fluorene | ND | 71 | 72 | 1.4 | 81 | 80 | 1.2 | 30 - 130 | 30 | |
| Hexachlorobenzene | ND | 74 | 79 | 6.5 | 85 | 82 | 3.6 | 30 - 130 | 30 | |
| Hexachlorobutadiene | ND | 75 | 76 | 1.3 | 83 | 80 | 3.7 | 30 - 130 | 30 | |
| Hexachlorocyclopentadiene | ND | 21 | 24 | 13.3 | 23 | 24 | 4.3 | 30 - 130 | 30 | l,m |
| Hexachloroethane | ND | 55 | 61 | 10.3 | 63 | 63 | 0.0 | 30 - 130 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 78 | 81 | 3.8 | 91 | 85 | 6.8 | 30 - 130 | 30 | |
| Isophorone | ND | 65 | 67 | 3.0 | 73 | 70 | 4.2 | 30 - 130 | 30 | |
| Naphthalene | ND | 71 | 71 | 0.0 | 79 | 76 | 3.9 | 30 - 130 | 30 | |
| Nitrobenzene | ND | 63 | 68 | 7.6 | 71 | 71 | 0.0 | 30 - 130 | 30 | |
| N-Nitrosodimethylamine | ND | 46 | 50 | 8.3 | 54 | 52 | 3.8 | 30 - 130 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 56 | 59 | 5.2 | 64 | 60 | 6.5 | 30 - 130 | 30 | |
| N-Nitrosodiphenylamine | ND | 82 | 83 | 1.2 | 90 | 90 | 0.0 | 30 - 130 | 30 | |
| Pentachloronitrobenzene | ND | >150 | >150 | NC | >150 | >150 | NC | 30 - 130 | 30 | l,m |
| Pentachlorophenol | ND | 58 | 62 | 6.7 | 85 | 82 | 3.6 | 30 - 130 | 30 | |
| Phenanthrene | ND | 75 | 77 | 2.6 | 85 | 82 | 3.6 | 30 - 130 | 30 | |
| Phenol | ND | 59 | 61 | 3.3 | 66 | 65 | 1.5 | 30 - 130 | 30 | |
| Pyrene | ND | 79 | 80 | 1.3 | 91 | 86 | 5.6 | 30 - 130 | 30 | |
| Pyridine | ND | 45 | 51 | 12.5 | 51 | 50 | 2.0 | 30 - 130 | 30 | |
| % 2,4,6-Tribromophenol | 74 | 73 | 74 | 1.4 | 83 | 80 | 3.7 | 15 - 130 | 30 | |
| % 2-Fluorobiphenyl | 68 | 66 | 69 | 4.4 | 76 | 73 | 4.0 | 30 - 130 | 30 | |
| % 2-Fluorophenol | 59 | 56 | 59 | 5.2 | 62 | 62 | 0.0 | 15 - 130 | 30 | |
| % Nitrobenzene-d5 | 61 | 62 | 66 | 6.3 | 68 | 70 | 2.9 | 30 - 130 | 30 | |
| % Phenol-d5 | 57 | 57 | 60 | 5.1 | 62 | 64 | 3.2 | 15 - 130 | 30 | |
| % Terphenyl-d14 | 80 | 77 | 79 | 2.6 | 88 | 87 | 1.1 | 30 - 130 | 30 | |

QA/QC Batch 202813, QC Sample No: BB97403 (BB97955, BB97957, BB97958, BB97961)

## Volatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 130 | 129 | 0.8 | 115 | 116 | 0.9 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 117 | 110 | 6.2 | 103 | 102 | 1.0 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 104 | 104 | 0.0 | 93 | 98 | 5.2 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 115 | 111 | 3.5 | 93 | 95 | 2.1 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 108 | 103 | 4.7 | 95 | 94 | 1.1 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 103 | 95 | 8.1 | 94 | 90 | 4.3 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 114 | 109 | 4.5 | 103 | 100 | 3.0 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 112 | 100 | 11.3 | 82 | 77 | 6.3 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 117 | 111 | 5.3 | 98 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 101 | 92 | 9.3 | 76 | 73 | 4.0 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 108 | 106 | 1.9 | 93 | 95 | 2.1 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 126 | 122 | 3.2 | 100 | 113 | 12.2 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 114 | 109 | 4.5 | 91 | 91 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 105 | 102 | 2.9 | 86 | 88 | 2.3 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 113 | 108 | 4.5 | 94 | 95 | 1.1 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 113 | 108 | 4.5 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 110 | 109 | 0.9 | 99 | 100 | 1.0 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 102 | 101 | 1.0 | 86 | 87 | 1.2 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 113 | 112 | 0.9 | 94 | 97 | 3.1 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 100 | 98 | 2.0 | 85 | 85 | 0.0 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 116 | 109 | 6.2 | 101 | 98 | 3.0 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 110 | 106 | 3.7 | 97 | 99 | 2.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB97955

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | ND | 71 | 69 | 2.9 | 44 | 51 | 14.7 | 70 - 130 | 30 | l,m |
| 2-Isopropyltoluene | ND | 102 | 99 | 3.0 | 95 | 95 | 0.0 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 102 | 99 | 3.0 | 91 | 91 | 0.0 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 90 | 86 | 4.5 | 73 | 76 | 4.0 | 70 - 130 | 30 | |
| Acetone | ND | 80 | 66 | 19.2 | 53 | 52 | 1.9 | 70 - 130 | 30 | l,m |
| Acrylonitrile | ND | 99 | 93 | 6.3 | 78 | 79 | 1.3 | 70 - 130 | 30 | |
| Benzene | ND | 113 | 108 | 4.5 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| Bromobenzene | ND | 115 | 113 | 1.8 | 94 | 97 | 3.1 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 112 | 106 | 5.5 | 95 | 95 | 0.0 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 118 | 114 | 3.4 | 100 | 104 | 3.9 | 70 - 130 | 30 | |
| Bromoform | ND | 146 | 143 | 2.1 | 114 | 120 | 5.1 | 70 - 130 | 30 | l |
| Bromomethane | ND | 101 | 91 | 10.4 | 93 | 87 | 6.7 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 96 | 89 | 7.6 | 86 | 82 | 4.8 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 134 | 129 | 3.8 | 121 | 124 | 2.4 | 70 - 130 | 30 | l |
| Chlorobenzene | ND | 107 | 104 | 2.8 | 95 | 94 | 1.1 | 70 - 130 | 30 | |
| Chloroethane | ND | 105 | 98 | 6.9 | 95 | 94 | 1.1 | 70 - 130 | 30 | |
| Chloroform | ND | 111 | 106 | 4.6 | 97 | 96 | 1.0 | 70 - 130 | 30 | |
| Chloromethane | ND | 100 | 93 | 7.3 | 92 | 87 | 5.6 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 112 | 104 | 7.4 | 97 | 93 | 4.2 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 111 | 106 | 4.6 | 93 | 93 | 0.0 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 131 | 130 | 0.8 | 108 | 110 | 1.8 | 70 - 130 | 30 | l |
| Dibromomethane | ND | 115 | 111 | 3.5 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 102 | 97 | 5.0 | 92 | 90 | 2.2 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 109 | 105 | 3.7 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 115 | 102 | 12.0 | 98 | 92 | 6.3 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 109 | 107 | 1.9 | 99 | 101 | 2.0 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 106 | 101 | 4.8 | 94 | 92 | 2.2 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 77 | 70 | 9.5 | 50 | 57 | 13.1 | 70 - 130 | 30 | m |
| Methyl t-butyl ether (MTBE) | ND | 117 | 94 | 21.8 | 86 | 87 | 1.2 | 70 - 130 | 30 | |
| Methylene chloride | ND | 101 | 92 | 9.3 | 88 | 85 | 3.5 | 70 - 130 | 30 | |
| Naphthalene | ND | 129 | 103 | 22.4 | 92 | 78 | 16.5 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 104 | 100 | 3.9 | 90 | 88 | 2.2 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 104 | 102 | 1.9 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| o-Xylene | ND | 104 | 100 | 3.9 | 95 | 92 | 3.2 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 111 | 108 | 2.7 | 95 | 93 | 2.1 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 107 | 104 | 2.8 | 99 | 99 | 0.0 | 70 - 130 | 30 | |
| Styrene | ND | 100 | 98 | 2.0 | 89 | 87 | 2.3 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 112 | 108 | 3.6 | 104 | 104 | 0.0 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 110 | 108 | 1.8 | 102 | 101 | 1.0 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 94 | 93 | 1.1 | 78 | 81 | 3.8 | 70 - 130 | 30 | |
| Toluene | ND | 111 | 105 | 5.6 | 97 | 96 | 1.0 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 114 | 93 | 20.3 | 88 | 85 | 3.5 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 118 | 113 | 4.3 | 94 | 94 | 0.0 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 135 | 130 | 3.8 | 99 | 104 | 4.9 | 70 - 130 | 30 | l |
| Trichloroethene | ND | 120 | 113 | 6.0 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 110 | 105 | 4.7 | 97 | 94 | 3.1 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 100 | 94 | 6.2 | 90 | 88 | 2.2 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 100 | 92 | 8.3 | 92 | 87 | 5.6 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 102 | 100 | 101 | 1.0 | 99 | 101 | 2.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 100 | 103 | 102 | 1.0 | 103 | 101 | 2.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 99 | 102 | 104 | 1.9 | 107 | 106 | 0.9 | 70 - 130 | 30 | |
| % Toluene-d8 | 100 | 99 | 98 | 1.0 | 99 | 99 | 0.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB97955

QA/QC Batch 202814, QC Sample No: BB97956 (BB97956)

## Volatiles - Soil

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 137 | 134 | 2.2 | | | | 70 - 130 | 30 | I |
| 1,1,1-Trichloroethane | ND | 117 | 114 | 2.6 | | | | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 114 | 114 | 0.0 | | | | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 117 | 116 | 0.9 | | | | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 107 | 106 | 0.9 | | | | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 104 | 98 | 5.9 | | | | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 119 | 117 | 1.7 | | | | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 129 | 116 | 10.6 | | | | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 121 | 117 | 3.4 | | | | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 123 | 114 | 7.6 | | | | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 120 | 117 | 2.5 | | | | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 128 | 127 | 0.8 | | | | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 116 | 116 | 0.0 | | | | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 113 | 110 | 2.7 | | | | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 114 | 113 | 0.9 | | | | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 113 | 112 | 0.9 | | | | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 120 | 118 | 1.7 | | | | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 116 | 113 | 2.6 | | | | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 115 | 115 | 0.0 | | | | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 113 | 110 | 2.7 | | | | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 122 | 119 | 2.5 | | | | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 117 | 115 | 1.7 | | | | 70 - 130 | 30 | |
| 2-Hexanone | ND | 88 | 92 | 4.4 | | | | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 109 | 104 | 4.7 | | | | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 113 | 110 | 2.7 | | | | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 96 | 98 | 2.1 | | | | 70 - 130 | 30 | |
| Acetone | ND | 81 | 76 | 6.4 | | | | 70 - 130 | 30 | |
| Acrylonitrile | ND | 98 | 95 | 3.1 | | | | 70 - 130 | 30 | |
| Benzene | ND | 116 | 113 | 2.6 | | | | 70 - 130 | 30 | |
| Bromobenzene | ND | 122 | 119 | 2.5 | | | | 70 - 130 | 30 | |
| Bromochloromethane | ND | 112 | 111 | 0.9 | | | | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 121 | 118 | 2.5 | | | | 70 - 130 | 30 | |
| Bromoform | ND | >150 | >150 | NC | | | | 70 - 130 | 30 | I |
| Bromomethane | ND | 98 | 93 | 5.2 | | | | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 99 | 95 | 4.1 | | | | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 138 | 139 | 0.7 | | | | 70 - 130 | 30 | I |
| Chlorobenzene | ND | 113 | 112 | 0.9 | | | | 70 - 130 | 30 | |
| Chloroethane | ND | 102 | 99 | 3.0 | | | | 70 - 130 | 30 | |
| Chloroform | ND | 111 | 109 | 1.8 | | | | 70 - 130 | 30 | |
| Chloromethane | ND | 91 | 88 | 3.4 | | | | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 113 | 108 | 4.5 | | | | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 116 | 112 | 3.5 | | | | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 133 | 134 | 0.7 | | | | 70 - 130 | 30 | I |
| Dibromomethane | ND | 117 | 117 | 0.0 | | | | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 82 | 80 | 2.5 | | | | 70 - 130 | 30 | |
| Ethylbenzene | ND | 115 | 113 | 1.8 | | | | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 129 | 116 | 10.6 | | | | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 115 | 113 | 1.8 | | | | 70 - 130 | 30 | |
| m&p-Xylene | ND | 113 | 110 | 2.7 | | | | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 76 | 80 | 5.1 | | | | 70 - 130 | 30 | |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl t-butyl ether (MTBE) | ND | 98 | 97 | 1.0 | | | | 70 - 130 | 30 | |
| Methylene chloride | ND | 104 | 99 | 4.9 | | | | 70 - 130 | 30 | |
| Naphthalene | ND | 134 | 110 | 19.7 | | | | 70 - 130 | 30 | l |
| n-Butylbenzene | ND | 121 | 113 | 6.8 | | | | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 113 | 110 | 2.7 | | | | 70 - 130 | 30 | |
| o-Xylene | ND | 110 | 107 | 2.8 | | | | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 123 | 119 | 3.3 | | | | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 116 | 112 | 3.5 | | | | 70 - 130 | 30 | |
| Styrene | ND | 108 | 108 | 0.0 | | | | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 117 | 114 | 2.6 | | | | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 118 | 119 | 0.8 | | | | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 95 | 97 | 2.1 | | | | 70 - 130 | 30 | |
| Toluene | ND | 116 | 112 | 3.5 | | | | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 102 | 98 | 4.0 | | | | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 124 | 120 | 3.3 | | | | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 148 | 148 | 0.0 | | | | 70 - 130 | 30 | l |
| Trichloroethene | ND | 118 | 117 | 0.9 | | | | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 109 | 106 | 2.8 | | | | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 99 | 96 | 3.1 | | | | 70 - 130 | 30 | |
| Vinyl chloride | ND | 93 | 90 | 3.3 | | | | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 102 | 99 | 101 | 2.0 | | | | 70 - 130 | 30 | |
| % Bromofluorobenzene | 99 | 102 | 104 | 1.9 | | | | 70 - 130 | 30 | |
| % Dibromofluoromethane | 101 | 103 | 106 | 2.9 | | | | 70 - 130 | 30 | |
| % Toluene-d8 | 100 | 99 | 98 | 1.0 | | | | 70 - 130 | 30 | |

Comment:

The MS/MSD are not reported for this batch.

QA/QC Batch 202958, QC Sample No: BB97960 (BB97959 (50X) , BB97960)

## Volatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 127 | 136 | 6.8 | 125 | 136 | 8.4 | 70 - 130 | 30 | l,m |
| 1,1,1-Trichloroethane | ND | 106 | 112 | 5.5 | 106 | 116 | 9.0 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 101 | 118 | 15.5 | 109 | 119 | 8.8 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 110 | 122 | 10.3 | 110 | 118 | 7.0 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 96 | 103 | 7.0 | 97 | 106 | 8.9 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 89 | 92 | 3.3 | 91 | 98 | 7.4 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 109 | 115 | 5.4 | 112 | 121 | 7.7 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 116 | 110 | 5.3 | 126 | 123 | 2.4 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 112 | 124 | 10.2 | 103 | 105 | 1.9 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 108 | 104 | 3.8 | 123 | 124 | 0.8 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 107 | 112 | 4.6 | 116 | 126 | 8.3 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 120 | 142 | 16.8 | 115 | 119 | 3.4 | 70 - 130 | 30 | l |
| 1,2-Dibromoethane | ND | 110 | 122 | 10.3 | 110 | 121 | 9.5 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 102 | 108 | 5.7 | 112 | 121 | 7.7 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 106 | 114 | 7.3 | 107 | 117 | 8.9 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 106 | 113 | 6.4 | 107 | 116 | 8.1 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 108 | 115 | 6.3 | 115 | 127 | 9.9 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 103 | 107 | 3.8 | 112 | 122 | 8.5 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 109 | 118 | 7.9 | 109 | 119 | 8.8 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 100 | 104 | 3.9 | 112 | 122 | 8.5 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 109 | 113 | 3.6 | 109 | 119 | 8.8 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 105 | 114 | 8.2 | 115 | 124 | 7.5 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 69 | 86 | 21.9 | 74 | 83 | 11.5 | 70 - 130 | 30 | l |
| 2-Isopropyltoluene | ND | 100 | 103 | 3.0 | 100 | 108 | 7.7 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB97955

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorotoluene | ND | 101 | 108 | 6.7 | 113 | 125 | 10.1 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 85 | 100 | 16.2 | 81 | 89 | 9.4 | 70 - 130 | 30 | |
| Acetone | ND | 65 | 78 | 18.2 | 62 | 64 | 3.2 | 70 - 130 | 30 | l,m |
| Acrylonitrile | ND | 89 | 101 | 12.6 | 83 | 91 | 9.2 | 70 - 130 | 30 | |
| Benzene | ND | 105 | 112 | 6.5 | 107 | 117 | 8.9 | 70 - 130 | 30 | |
| Bromobenzene | ND | 111 | 120 | 7.8 | 113 | 123 | 8.5 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 103 | 113 | 9.3 | 104 | 114 | 9.2 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 112 | 121 | 7.7 | 111 | 122 | 9.4 | 70 - 130 | 30 | |
| Bromoform | ND | 143 | >150 | NC | 134 | 141 | 5.1 | 70 - 130 | 30 | l,m |
| Bromomethane | ND | 87 | 90 | 3.4 | 62 | 55 | 12.0 | 70 - 130 | 30 | m |
| Carbon Disulfide | ND | 79 | 83 | 4.9 | 76 | 83 | 8.8 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 127 | 139 | 9.0 | 127 | 139 | 9.0 | 70 - 130 | 30 | l,m |
| Chlorobenzene | ND | 104 | 110 | 5.6 | 111 | 119 | 7.0 | 70 - 130 | 30 | |
| Chloroethane | ND | 89 | 91 | 2.2 | <40 | <40 | NC | 70 - 130 | 30 | m |
| Chloroform | ND | 101 | 107 | 5.8 | 101 | 109 | 7.6 | 70 - 130 | 30 | |
| Chloromethane | ND | 78 | 83 | 6.2 | 83 | 87 | 4.7 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 101 | 106 | 4.8 | 103 | 108 | 4.7 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 106 | 113 | 6.4 | 110 | 120 | 8.7 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 129 | 141 | 8.9 | 123 | 132 | 7.1 | 70 - 130 | 30 | l,m |
| Dibromomethane | ND | 109 | 119 | 8.8 | 109 | 119 | 8.8 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 72 | 76 | 5.4 | 75 | 81 | 7.7 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 106 | 111 | 4.6 | 111 | 119 | 7.0 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 121 | 113 | 6.8 | 135 | 135 | 0.0 | 70 - 130 | 30 | m |
| Isopropylbenzene | ND | 107 | 115 | 7.2 | 115 | 122 | 5.9 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 103 | 109 | 5.7 | 111 | 119 | 7.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 61 | 75 | 20.6 | 64 | 75 | 15.8 | 70 - 130 | 30 | l,m |
| Methyl t-butyl ether (MTBE) | ND | 91 | 99 | 8.4 | 90 | 97 | 7.5 | 70 - 130 | 30 | |
| Methylene chloride | ND | 92 | 95 | 3.2 | 92 | 98 | 6.3 | 70 - 130 | 30 | |
| Naphthalene | ND | 124 | 110 | 12.0 | 132 | 110 | 18.2 | 70 - 130 | 30 | m |
| n-Butylbenzene | ND | 105 | 105 | 0.0 | 118 | 122 | 3.3 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 102 | 109 | 6.6 | 115 | 124 | 7.5 | 70 - 130 | 30 | |
| o-Xylene | ND | 102 | 107 | 4.8 | 103 | 111 | 7.5 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 111 | 114 | 2.7 | 117 | 126 | 7.4 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 105 | 108 | 2.8 | 115 | 125 | 8.3 | 70 - 130 | 30 | |
| Styrene | ND | 100 | 102 | 2.0 | 101 | 111 | 9.4 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 109 | 114 | 4.5 | 116 | 124 | 6.7 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 112 | 116 | 3.5 | 116 | 126 | 8.3 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 85 | 102 | 18.2 | 81 | 90 | 10.5 | 70 - 130 | 30 | |
| Toluene | ND | 104 | 112 | 7.4 | 109 | 119 | 8.8 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 90 | 94 | 4.3 | 94 | 98 | 4.2 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 113 | 121 | 6.8 | 116 | 125 | 7.5 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 135 | >150 | NC | 126 | 137 | 8.4 | 70 - 130 | 30 | l,m |
| Trichloroethene | ND | 111 | 119 | 7.0 | 110 | 119 | 7.9 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 92 | 98 | 6.3 | <40 | <40 | NC | 70 - 130 | 30 | m |
| Trichlorotrifluoroethane | ND | 86 | 89 | 3.4 | 81 | 89 | 9.4 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 82 | 84 | 2.4 | 78 | 84 | 7.4 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 102 | 101 | 101 | 0.0 | 100 | 101 | 1.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 97 | 101 | 101 | 0.0 | 102 | 102 | 0.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 105 | 111 | 110 | 0.9 | 106 | 106 | 0.0 | 70 - 130 | 30 | |
| % Toluene-d8 | 100 | 99 | 99 | 0.0 | 99 | 101 | 2.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB97955

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 202644, QC Sample No: BB97996 (BB97961) | | | | | | | | | |
| **Polychlorinated Biphenyls - Soil** | | | | | | | | | |
| PCB-1016 | ND | 89 | 77 | 14.5 | 99 | 81 | 20.0 | 40 - 140 | 30 |
| PCB-1221 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1232 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1242 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1248 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1254 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1260 | ND | 88 | 75 | 16.0 | 72 | 74 | 2.7 | 40 - 140 | 30 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 30 |
| % DCBP (Surrogate Rec) | 82 | 76 | 65 | 15.6 | 64 | 60 | 6.5 | 30 - 150 | 30 |
| % TCMX (Surrogate Rec) | 84 | 78 | 68 | 13.7 | 63 | 54 | 15.4 | 30 - 150 | 30 |

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd 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
June 25, 2012

# Sample Criteria Exceedences Report



Requested Criteria: 375

**GBB97955**

| SampNo | LocCode | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|---|
| BB97955 | EBC | $8260SMR | Acetone | NY / 375-6.8 Volatiles / Unrestricted Use Soil | 95 | 27 | 50 | 50 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 510 | 330 | 330 | ug/Kg |
| BB97955 | EBC | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 510 | 330 | 330 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 5300 | 510 | 1000 | 1000 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 5100 | 510 | 1000 | 1000 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 5600 | 510 | 1000 | 1000 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2100 | 510 | 800 | 800 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 4200 | 510 | 1000 | 1000 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2600 | 510 | 500 | 500 | ug/Kg |
| BB97955 | EBC | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 1000 | 510 | 330 | 330 | ug/Kg |
| BB97955 | EBC | $PEST_SMR | Aldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND | 5.4 | 5 | 5 | ug/Kg |
| BB97955 | EBC | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 780 | 350 | 3.3 | 3.3 | ug/Kg |
| BB97955 | EBC | $PEST_SMR | Dieldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 290 | 54 | 5 | 5 | ug/Kg |
| BB97955 | EBC | $PEST_SMR | Endrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND | 35 | 14 | 14 | ug/Kg |
| BB97955 | EBC | $PEST_SMR | 4,4' -DDD | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 2600 | 350 | 3.3 | 3.3 | ug/Kg |
| BB97955 | EBC | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 9200 | 1700 | 3.3 | 3.3 | ug/Kg |
| BB97955 | EBC | AS-SM | Arsenic | NY / 375-6.8 Metals / Unrestricted Use Soil | 25.7 | 0.66 | 13 | 13 | mg/Kg |
| BB97955 | EBC | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 187 | 3.3 | 50 | 50 | mg/kg |
| BB97955 | EBC | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 0.82 | 0.08 | 0.18 | 0.18 | mg/Kg |
| BB97955 | EBC | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 6860 | 33 | 63 | 63 | mg/Kg |
| BB97955 | EBC | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 429 | 3.3 | 109 | 109 | mg/Kg |
| BB97956 | EBC | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 1200 | 250 | 1000 | 1000 | ug/Kg |
| BB97956 | EBC | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 1200 | 250 | 1000 | 1000 | ug/Kg |
| BB97956 | EBC | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 1200 | 250 | 1000 | 1000 | ug/Kg |
| BB97956 | EBC | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 620 | 250 | 500 | 500 | ug/Kg |
| BB97956 | EBC | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 11 | 1.8 | 3.3 | 3.3 | ug/Kg |
| BB97956 | EBC | AS-SM | Arsenic | NY / 375-6.8 Metals / Unrestricted Use Soil | 17.4 | 0.78 | 13 | 13 | mg/Kg |
| BB97956 | EBC | BA-SM | Barium | NY / 375-6.8 Metals / Unrestricted Use Soil | 2220 | 3.9 | 350 | 350 | mg/Kg |
| BB97956 | EBC | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 389 | 3.9 | 50 | 50 | mg/kg |
| BB97956 | EBC | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 1.58 | 0.06 | 0.18 | 0.18 | mg/Kg |
| BB97956 | EBC | NI-SM | Nickel | NY / 375-6.8 Metals / Unrestricted Use Soil | 41.3 | 0.39 | 30 | 30 | mg/Kg |
| BB97956 | EBC | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 407 | 3.9 | 63 | 63 | mg/Kg |
| BB97956 | EBC | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 3880 | 39 | 109 | 109 | mg/Kg |
| BB97957 | EBC | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 13 | 1.8 | 3.3 | 3.3 | ug/Kg |
| BB97957 | EBC | AS-SM | Arsenic | NY / 375-6.8 Metals / Unrestricted Use Soil | 37.9 | 0.65 | 13 | 13 | mg/Kg |
| BB97957 | EBC | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 70.9 | 0.32 | 50 | 50 | mg/kg |
| BB97957 | EBC | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 0.54 | 0.08 | 0.18 | 0.18 | mg/Kg |
| BB97957 | EBC | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 228 | 3.2 | 63 | 63 | mg/Kg |

# Sample Criteria Exceedences Report

**GBB97955**



| SampNo | LocCode | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|---|
| BB97957 | EBC | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 125 | 3.2 | 109 | 109 | mg/Kg |
| BB97958 | EBC | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 520 | 330 | 330 | ug/Kg |
| BB97958 | EBC | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 8300 | 520 | 330 | 330 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Naphthalene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 19000 | 520 | 12000 | 12000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Fluorene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 160000 | 520 | 30000 | 30000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Phenanthrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 160000 | 520 | 100000 | 100000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 160000 | 520 | 100000 | 100000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 150000 | 520 | 100000 | 100000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 62000 | 520 | 1000 | 1000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 59000 | 520 | 1000 | 1000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 58000 | 520 | 1000 | 1000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 18000 | 520 | 800 | 800 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 49000 | 520 | 1000 | 1000 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 29000 | 520 | 500 | 500 | ug/Kg |
| BB97958 | EBC | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 7800 | 520 | 330 | 330 | ug/Kg |
| BB97958 | EBC | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 18 | 3.3 | 3.3 | ug/Kg |
| BB97958 | EBC | $PEST_SMR | Endrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 18 | 14 | 14 | ug/Kg |
| BB97958 | EBC | $PEST_SMR | 4,4' -DDD | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 18 | 3.3 | 3.3 | ug/Kg |
| BB97958 | EBC | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 18 | 3.3 | 3.3 | ug/Kg |
| BB97958 | EBC | AS-SM | Arsenic | NY / 375-6.8 Metals / Unrestricted Use Soil | 23.5 | 0.75 | 13 | 13 | mg/Kg |
| BB97958 | EBC | BA-SM | Barium | NY / 375-6.8 Metals / Unrestricted Use Soil | 1010 | 0.37 | 350 | 350 | mg/Kg |
| BB97958 | EBC | CD-SM | Cadmium | NY / 375-6.8 Metals / Unrestricted Use Soil | 9.12 | 0.37 | 2.5 | 2.5 | mg/Kg |
| BB97958 | EBC | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 13900 | 37 | 50 | 50 | mg/kg |
| BB97958 | EBC | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 6.76 | 0.17 | 0.18 | 0.18 | mg/Kg |
| BB97958 | EBC | NI-SM | Nickel | NY / 375-6.8 Metals / Unrestricted Use Soil | 74.1 | 0.37 | 30 | 30 | mg/Kg |
| BB97958 | EBC | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 2490 | 37 | 63 | 63 | mg/Kg |
| BB97958 | EBC | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 12800 | 37 | 109 | 109 | mg/Kg |
| BB97959 | EBC | $8260SMR | Total Xylenes | NY / 375-6.8 Volatiles / Unrestricted Use Soil | 1340 | 250 | 260 | 260 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 500 | 330 | 330 | ug/Kg |
| BB97959 | EBC | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 500 | 330 | 330 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 12000 | 500 | 1000 | 1000 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 11000 | 500 | 1000 | 1000 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 16000 | 500 | 1000 | 1000 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 3400 | 500 | 800 | 800 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 12000 | 500 | 1000 | 1000 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 6800 | 500 | 500 | 500 | ug/Kg |
| BB97959 | EBC | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2300 | 500 | 330 | 330 | ug/Kg |
| BB97959 | EBC | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 17 | 3.3 | 3.3 | ug/Kg |

# Sample Criteria Exceedences Report

Requested Criteria: 375

**GBB97955**

| SampNo | LocCode | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|---|
| BB97959 | EBC | $PEST_SMR | Endrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 17 | 14 | 14 | ug/Kg |
| BB97959 | EBC | $PEST_SMR | 4,4' -DDD | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 17 | 3.3 | 3.3 | ug/Kg |
| BB97959 | EBC | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 17 | 3.3 | 3.3 | ug/Kg |
| BB97959 | EBC | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 62.8 | 0.36 | 50 | 50 | mg/kg |
| BB97959 | EBC | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 198 | 3.6 | 63 | 63 | mg/Kg |
| BB97959 | EBC | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 290 | 3.6 | 109 | 109 | mg/Kg |
| BB97960 | EBC | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2200 | 260 | 1000 | 1000 | ug/Kg |
| BB97960 | EBC | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2300 | 260 | 1000 | 1000 | ug/Kg |
| BB97960 | EBC | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2300 | 260 | 1000 | 1000 | ug/Kg |
| BB97960 | EBC | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2000 | 260 | 1000 | 1000 | ug/Kg |
| BB97960 | EBC | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 1100 | 260 | 500 | 500 | ug/Kg |
| BB97960 | EBC | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 340 | 260 | 330 | 330 | ug/Kg |
| BB97960 | EBC | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 132 | 0.37 | 50 | 50 | mg/kg |
| BB97960 | EBC | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 1.13 | 0.06 | 0.18 | 0.18 | mg/Kg |
| BB97960 | EBC | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 323 | 3.7 | 63 | 63 | mg/Kg |
| BB97960 | EBC | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 381 | 3.7 | 109 | 109 | mg/Kg |
| BB97961 | EBC | BA-SM | Barium | NY / 375-6.8 Metals / Unrestricted Use Soil | 769 | 0.36 | 350 | 350 | mg/Kg |
| BB97961 | EBC | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 139 | 0.36 | 63 | 63 | mg/Kg |
| BB97961 | EBC | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 184 | 3.6 | 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.

# PHOENIX Environmental Laboratories, Inc.

## NY/NJ CHAIN OF CUSTODY RECORD

Temp 4° w/IP Pg of

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

**Data Delivery:**
☐ Fax #:
☒ Email: Kbrousse@ebcinny.com

Customer: EBC
Address: 1808 MIDDLE COUNTRY RD
RIDGE, NY 11961

Project: 505 UNION AVENUE, BROOKLYN
Report to: EBC
Invoice to: EBC

Project P.O:
Phone #: 631-504-6000
Fax #: 631-924-2870

Sampler's Signature: [signature] Date: 6/12/2012

**Client Sample - Information - Identification**

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | VOCs 8260C | SVOCs 8270C | TAL METALS | PESTICIDES/PCBs 8081A 8082 | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( 8 ) oz | GL Soil container ( 4 ) oz | 40 ml VOA Vial [ ] As is [ ] HCl | GL Amber 1000ml [ ] As is [ ] H2SO4 | PL As is [ ] 1250ml [ ] 1500ml [ ] 1000ml | PL H2SO4 [ ] 1250ml [ ] 1500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97955 | B1(0-4) | SOIL | 6/12 | | X | X | X | X | X | | | | | | | | | |
| 97956 | B2(0-4) | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | |
| 97957 | B3(0-4) | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | |
| 97958 | B4(0-4) | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | |
| 97959 | B5(0-4) | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | |
| 97960 | B6(0-4) | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | |
| 97961 | B7(0-4) | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 6-13-12 | 8:15 |
| [signature] | [signature] | 6-13-12 | 1720 |

**Comments, Special Requirements or Regulations:**

* E SITE PRICING

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

**NJ**
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

**NY**
☐ TOGS GA GW
☐ CP-51 Soil
☒ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

**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

PHOENIX
Environmental Laboratories, Inc.

**Thursday, June 28, 2012**

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

**Project ID: 505 UNION AVE.**
**Sample ID#s: BB99259 - BB99263**

**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 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.**

**If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.**

**Sincerely yours,**

**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**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 28, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 06/14/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99259
Phoenix ID: BB99259

Project ID: 505 UNION AVE.

Client ID: GW-1

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Aluminum | 0.633 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Arsenic | 0.007 | 0.004 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Barium | 0.404 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Beryllium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Calcium | 127 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cadmium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cobalt | < 0.002 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Chromium | 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Copper | 0.033 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Aluminum (Dissolved) | < 0.01 | 0.01 | mg/L | 06/21/12 | | LK | SW6010/E200.7 |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Barium (Dissolved) | 0.297 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Calcium (Dissolved) | 115 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cobalt (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Chromium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Iron (Dissolved) | 0.164 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | 7470/E245.1 |
| Potassium (Dissolved) | 18.6 | 0.1 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Magnesium (Dissolved) | 13.3 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Manganese (Dissolved) | 0.533 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Sodium (Dissolved) | 21.7 | 0.11 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Nickel (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Lead (Dissolved) | 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Selenium (Dissolved) | < 0.011 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Thallium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | RS | 7010/279.2 | |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Zinc (Dissolved) | 0.004 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Iron | 11.3 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Mercury | 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | SW7470/245.1 | |
| Potassium | 18.7 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Magnesium | 14.3 | 0.01 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Manganese | 0.565 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Sodium | 23.6 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | B |
| Nickel | 0.002 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Lead | 0.050 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Antimony | < 0.005 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Selenium | < 0.010 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Thallium | < 0.002 | 0.002 | mg/L | 06/26/12 | | RS | SW7010/200.9 | |
| Dissolved Metals Preparation | Completed | | | 06/15/12 | | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 06/15/12 | | AG | | |
| Vanadium | 0.002 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Zinc | 0.040 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Filtration | Completed | | | 06/15/12 | | AG | 0.45um Filter | |
| Dissolved Mercury Digestion | Completed | | | 06/18/12 | | X/X | SW7470 | |
| Mercury Digestion | Completed | | | 06/18/12 | | X/X | SW7470/245.1 | |
| PCB Extraction | Completed | | | 06/15/12 | | L | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 06/15/12 | | L | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 06/15/12 | | F/D | SW3520 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1221 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1232 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1242 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1248 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1254 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1260 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1262 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1268 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| QA/QC Surrogates | | | | | | | | |
| % DCBP | 48 | | % | 06/18/12 | | MH | 30 - 150 % | |
| % TCMX | 78 | | % | 06/18/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDE | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDT | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| a-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Alachlor | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | 1 |
| Aldrin | ND | 0.003 | ug/L | 06/23/12 | | MH | SW8081 | |
| b-BHC | ND | 0.01 | ug/L | 06/23/12 | | MH | SW8081 | |
| Chlordane | ND | 0.3 | ug/L | 06/23/12 | | MH | SW8081 | |
| d-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Dieldrin | ND | 0.002 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan I | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan II | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan Sulfate | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin Aldehyde | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin ketone | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| g-BHC (Lindane) | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor epoxide | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Methoxychlor | ND | 0.2 | ug/L | 06/23/12 | | MH | SW8081 | |
| Toxaphene | ND | 1.0 | ug/L | 06/23/12 | | MH | SW8081 | |
| QA/QC Surrogates | | | | | | | | |
| %DCBP (Surrogate Rec) | 35 | | % | 06/23/12 | | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | 58 | | % | 06/23/12 | | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acetone | ND | 25 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Bromochloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Vinyl chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| QA/QC Surrogates | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 98 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 06/18/12 | | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitrophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Acetophenone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Aniline | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | LO |
| Anthracene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Azobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | 1 |
| Benzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Benzoic acid | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | LP |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Carbazole | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dibenzofuran | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Diethyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluoranthene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluorene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Isophorone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Naphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Nitrobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Phenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| Pyrene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | % | 06/19/12 | | DD | 15 - 130 % | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| % 2-Fluorobiphenyl | 67 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 68 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 62 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 28 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 86 | | % | 06/19/12 | | DD | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthene | ND | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthylene | ND | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benz(a)anthracene | 0.15 | 0.040 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | 0.09 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | 0.16 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | 0.07 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Chrysene | 0.15 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | 0.02 | 0.010 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.4 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | 0.07 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | 1O |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Phenanthrene | 0.27 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 67 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 68 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 62 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 28 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 86 | | % | 06/18/12 | | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

## Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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Phyllis Shiller, Laboratory Director
June 28, 2012
Reviewed and Released by: Johanna Harrington, Project Manager

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 28, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 06/14/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99259
Phoenix ID: BB99260

Project ID: 505 UNION AVE.

Client ID: GW-2

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Aluminum | 0.022 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Arsenic | 0.011 | 0.004 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Barium | 0.132 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Beryllium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Calcium | 136 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cadmium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cobalt | < 0.002 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Chromium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Copper | < 0.005 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Aluminum (Dissolved) | < 0.01 | 0.01 | mg/L | 06/25/12 | | L/P | SW6010/E200.7 |
| Arsenic (Dissolved) | 0.005 | 0.004 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Barium (Dissolved) | 0.121 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Calcium (Dissolved) | 126 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cobalt (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Chromium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Iron (Dissolved) | 0.631 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | 7470/E245.1 |
| Potassium (Dissolved) | 18.4 | 0.1 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Magnesium (Dissolved) | 8.51 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Manganese (Dissolved) | 0.280 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Sodium (Dissolved) | 11.9 | 0.11 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Nickel (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |

Project ID: 505 UNION AVE.
Client ID: GW-2

Phoenix I.D.: BB99260

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Selenium (Dissolved) | < 0.011 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Thallium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | RS | 7010/279.2 | |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Zinc (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Iron | 6.24 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Mercury | < 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | SW7470/245.1 | |
| Potassium | 17.9 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Magnesium | 8.92 | 0.01 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Manganese | 0.285 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Sodium | 11.0 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | B |
| Nickel | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Lead | 0.007 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Antimony | < 0.005 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Selenium | < 0.010 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Thallium | < 0.002 | 0.002 | mg/L | 06/26/12 | | RS | SW7010/200.9 | |
| Dissolved Metals Preparation | Completed | | | 06/15/12 | | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 06/15/12 | | AG | | |
| Vanadium | < 0.002 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Zinc | 0.010 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Filtration | Completed | | | 06/15/12 | | AG | 0.45um Filter | |
| Dissolved Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470 | |
| Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470/245.1 | |
| PCB Extraction | Completed | | | 06/15/12 | | L | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 06/15/12 | | L | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 06/15/12 | | F/D | SW3520 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1221 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1232 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1242 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1248 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1254 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1260 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1262 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1268 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| QA/QC Surrogates | | | | | | | | |
| % DCBP | 67 | | % | 06/18/12 | | MH | 30 - 150 % | |
| % TCMX | 68 | | % | 06/18/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDE | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDT | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| a-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Alachlor | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | 1 |
| Aldrin | ND | 0.003 | ug/L | 06/23/12 | | MH | SW8081 | |
| b-BHC | ND | 0.01 | ug/L | 06/23/12 | | MH | SW8081 | |
| Chlordane | ND | 0.3 | ug/L | 06/23/12 | | MH | SW8081 | |
| d-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |

Project ID: 505 UNION AVE.
Client ID: GW-2

Phoenix I.D.: BB99260

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Dieldrin | ND | 0.002 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan I | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan II | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan Sulfate | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin Aldehyde | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin ketone | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| g-BHC (Lindane) | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor epoxide | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Methoxychlor | ND | 0.2 | ug/L | 06/23/12 | | MH | SW8081 | |
| Toxaphene | ND | 1.0 | ug/L | 06/23/12 | | MH | SW8081 | |
| QA/QC Surrogates | | | | | | | | |
| %DCBP (Surrogate Rec) | 56 | | % | 06/23/12 | | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | 72 | | % | 06/23/12 | | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acetone | ND | 25 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Bromochloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |

Project ID: 505 UNION AVE.
Client ID: GW-2

Phoenix I.D.: BB99260

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroform | 6.6 | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Vinyl chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| QA/QC Surrogates | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 98 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 06/18/12 | | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |

Project ID: 505 UNION AVE.
Client ID: GW-2

Phoenix I.D.: BB99260

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitrophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Acetophenone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Aniline | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | LO |
| Anthracene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Azobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | 1 |
| Benzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Benzoic acid | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | 1P |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Carbazole | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dibenzofuran | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Diethyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluoranthene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluorene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Isophorone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Naphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Nitrobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Phenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| Pyrene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/19/12 | | DD | 15 - 130 % | |

Project ID: 505 UNION AVE.
Client ID: GW-2

Phoenix I.D.: BB99260

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| % 2-Fluorobiphenyl | 70 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 67 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 64 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 68 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 96 | | % | 06/19/12 | | DD | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthene | ND | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthylene | ND | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benz(a)anthracene | 0.1 | 0.040 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | 0.09 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | 0.12 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Chrysene | 0.09 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.4 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | 1O |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Phenanthrene | 0.22 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 70 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 67 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 64 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 68 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 96 | | % | 06/18/12 | | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

## Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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Phyllis Shiller, Laboratory Director
June 28, 2012
Reviewed and Released by: Johanna Harrington, Project Manager

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 28, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 06/14/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99259
Phoenix ID: BB99261

Project ID: 505 UNION AVE.

Client ID: GW-3

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Aluminum | 2.33 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Arsenic | 0.005 | 0.004 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Barium | 0.457 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Beryllium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Calcium | 136 | 0.10 | mg/L | 06/18/12 | | EK | SW6010/E200.7 |
| Cadmium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cobalt | < 0.002 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Chromium | 0.006 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Copper | 0.030 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Aluminum (Dissolved) | 0.22 | 0.05 | mg/L | 06/25/12 | | LK | SW6010/E200.7 |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Barium (Dissolved) | 0.273 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Calcium (Dissolved) | 134 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cobalt (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Chromium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Iron (Dissolved) | 0.028 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | 7470/E245.1 |
| Potassium (Dissolved) | 29.2 | 0.1 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Magnesium (Dissolved) | 31.9 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Manganese (Dissolved) | 0.705 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Sodium (Dissolved) | 41.4 | 0.11 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Nickel (Dissolved) | 0.002 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Lead (Dissolved) | 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |

Project ID: 505 UNION AVE.
Client ID: GW-3

Phoenix I.D.: BB99261

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Selenium (Dissolved) | < 0.011 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Thallium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | RS | 7010/279.2 | |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Zinc (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Iron | 13.2 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Mercury | < 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | SW7470/245.1 | |
| Potassium | 29.2 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Magnesium | 35.6 | 0.01 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Manganese | 0.797 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Sodium | 43.3 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | B |
| Nickel | 0.005 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Lead | 0.155 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Antimony | < 0.005 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Selenium | < 0.010 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Thallium | < 0.002 | 0.002 | mg/L | 06/26/12 | | RS | SW7010/200.9 | |
| Dissolved Metals Preparation | Completed | | | 06/15/12 | | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 06/15/12 | | AG | | |
| Vanadium | 0.007 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Zinc | 0.047 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Filtration | Completed | | | 06/15/12 | | AG | 0.45um Filter | |
| Dissolved Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470 | |
| Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470/245.1 | |
| PCB Extraction | Completed | | | 06/15/12 | | L | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 06/15/12 | | L | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 06/15/12 | | F/D | SW3520 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1221 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1232 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1242 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1248 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1254 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1260 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1262 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1268 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| QA/QC Surrogates | | | | | | | | |
| % DCBP | 44 | | % | 06/18/12 | | MH | 30 - 150 % | |
| % TCMX | 73 | | % | 06/18/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDE | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDT | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| a-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Alachlor | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | 1 |
| Aldrin | ND | 0.003 | ug/L | 06/23/12 | | MH | SW8081 | |
| b-BHC | ND | 0.01 | ug/L | 06/23/12 | | MH | SW8081 | |
| Chlordane | ND | 0.3 | ug/L | 06/23/12 | | MH | SW8081 | |
| d-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |

Project ID: 505 UNION AVE.
Client ID: GW-3

Phoenix I.D.: BB99261

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Dieldrin | ND* | 0.007 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan I | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan II | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan Sulfate | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin Aldehyde | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin ketone | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| g-BHC (Lindane) | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor epoxide | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Methoxychlor | ND | 0.2 | ug/L | 06/23/12 | | MH | SW8081 | |
| Toxaphene | ND | 1.0 | ug/L | 06/23/12 | | MH | SW8081 | |
| QA/QC Surrogates | | | | | | | | |
| %DCBP (Surrogate Rec) | 39 | | % | 06/23/12 | | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | 74 | | % | 06/23/12 | | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acetone | ND | 25 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Bromochloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |

Project ID: 505 UNION AVE.
Client ID: GW-3

Phoenix I.D.: BB99261

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Vinyl chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| QA/QC Surrogates | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 98 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 98 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 06/18/12 | | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |

Project ID: 505 UNION AVE.
Client ID: GW-3

Phoenix I.D.: BB99261

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitrophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Acetophenone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Aniline | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | LO |
| Anthracene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Azobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | 1 |
| Benzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Benzoic acid | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | 1P |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Carbazole | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dibenzofuran | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Diethyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluoranthene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluorene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Isophorone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Naphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Nitrobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Phenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| Pyrene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/19/12 | | DD | 15 - 130 % | |

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Client ID: GW-3

Phoenix I.D.: BB99261

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| % 2-Fluorobiphenyl | 70 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 69 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 66 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 66 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 84 | | % | 06/19/12 | | DD | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthene | 0.33 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthylene | 0.42 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benz(a)anthracene | 2.4 | 0.040 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | 1.7 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | 2.3 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | 0.74 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Chrysene | 2.1 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | 0.33 | 0.010 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.4 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | 0.85 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | 1O |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Phenanthrene | 3.3 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 70 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 69 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 66 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 66 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 84 | | % | 06/18/12 | | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

## Comments:

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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Phyllis Shiller, Laboratory Director
June 28, 2012
Reviewed and Released by: Johanna Harrington, Project Manager

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 28, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 06/14/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99259
Phoenix ID: BB99262

Project ID: 505 UNION AVE.

Client ID: GW-4

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Aluminum | 2.51 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Arsenic | 0.005 | 0.004 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Barium | 0.124 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Beryllium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Calcium | 67.5 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cadmium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cobalt | < 0.002 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Chromium | 0.005 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Copper | 0.053 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Aluminum (Dissolved) | 0.08 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Barium (Dissolved) | 0.065 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Calcium (Dissolved) | 58.9 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cobalt (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Chromium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Iron (Dissolved) | 0.504 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | 7470/E245.1 |
| Potassium (Dissolved) | 9.2 | 0.1 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Magnesium (Dissolved) | 6.52 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Manganese (Dissolved) | 0.397 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Sodium (Dissolved) | 9.58 | 0.11 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Nickel (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Lead (Dissolved) | 0.013 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |

Project ID: 505 UNION AVE.
Client ID: GW-4

Phoenix I.D.: BB99262

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Selenium (Dissolved) | < 0.011 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Thallium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | RS | 7010/279.2 | |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Zinc (Dissolved) | 0.011 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Iron | 13.8 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Mercury | 0.0004 | 0.0002 | mg/L | 06/18/12 | | RS | SW7470/245.1 | |
| Potassium | 9.1 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Magnesium | 7.64 | 0.01 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Manganese | 0.499 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Sodium | 9.8 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | B |
| Nickel | 0.005 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Lead | 0.340 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Antimony | < 0.005 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Selenium | < 0.010 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Thallium | < 0.002 | 0.002 | mg/L | 06/26/12 | | RS | SW7010/200.9 | |
| Dissolved Metals Preparation | Completed | | | 06/15/12 | | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 06/15/12 | | AG | | |
| Vanadium | 0.008 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Zinc | 0.168 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Filtration | Completed | | | 06/15/12 | | AG | 0.45um Filter | |
| Dissolved Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470 | |
| Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470/245.1 | |
| PCB Extraction | Completed | | | 06/15/12 | | L | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 06/15/12 | | L | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 06/15/12 | | F/D | SW3520 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1221 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1232 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1242 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1248 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1254 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1260 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1262 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1268 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| QA/QC Surrogates | | | | | | | | |
| % DCBP | 56 | | % | 06/18/12 | | MH | 30 - 150 % | |
| % TCMX | 75 | | % | 06/18/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDE | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDT | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| a-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Alachlor | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | 1 |
| Aldrin | ND | 0.003 | ug/L | 06/23/12 | | MH | SW8081 | |
| b-BHC | ND | 0.01 | ug/L | 06/23/12 | | MH | SW8081 | |
| Chlordane | ND | 0.3 | ug/L | 06/23/12 | | MH | SW8081 | |
| d-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |

Project ID: 505 UNION AVE.
Client ID: GW-4

Phoenix I.D.: BB99262

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Dieldrin | ND | 0.002 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan I | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan II | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan Sulfate | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin Aldehyde | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin ketone | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| g-BHC (Lindane) | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor epoxide | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Methoxychlor | ND | 0.2 | ug/L | 06/23/12 | | MH | SW8081 | |
| Toxaphene | ND | 1.0 | ug/L | 06/23/12 | | MH | SW8081 | |
| QA/QC Surrogates | | | | | | | | |
| %DCBP (Surrogate Rec) | 36 | | % | 06/23/12 | | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | 69 | | % | 06/23/12 | | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acetone | ND | 25 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Bromochloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Vinyl chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| QA/QC Surrogates | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 97 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 100 | | % | 06/18/12 | | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |

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Client ID: GW-4

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitrophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Acetophenone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Aniline | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | LO |
| Anthracene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Azobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | 1 |
| Benzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Benzoic acid | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | 1P |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Carbazole | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dibenzofuran | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Diethyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluoranthene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluorene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Isophorone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Naphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Nitrobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Phenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| Pyrene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 110 | | % | 06/19/12 | | DD | 15 - 130 % | |

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Client ID: GW-4

Phoenix I.D.: BB99262

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| % 2-Fluorobiphenyl | 65 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 61 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 62 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 61 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 63 | | % | 06/19/12 | | DD | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthene | 0.2 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthylene | 0.1 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benz(a)anthracene | 2.4 | 0.040 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | 2.6 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | 3.3 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | 1.1 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Chrysene | 2.3 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | 0.55 | 0.010 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.4 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | 1.6 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | 1O |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Phenanthrene | 2.2 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 110 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 65 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 61 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 62 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 61 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 63 | | % | 06/18/12 | | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

## Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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Phyllis Shiller, Laboratory Director
June 28, 2012
Reviewed and Released by: Johanna Harrington, Project Manager

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 28, 2012

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 06/14/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 06/15/12 | 16:30 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBB99259
Phoenix ID: BB99263

Project ID: 505 UNION AVE.

Client ID: DUPLICATE

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Aluminum | 4.22 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Arsenic | 0.006 | 0.004 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Barium | 0.483 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Beryllium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Calcium | 147 | 0.10 | mg/L | 06/18/12 | | EK | SW6010/E200.7 |
| Cadmium | < 0.001 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Cobalt | < 0.002 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Chromium | 0.009 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Copper | 0.045 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Aluminum (Dissolved) | < 0.01 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Barium (Dissolved) | 0.284 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Calcium (Dissolved) | 137 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Cobalt (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Chromium (Dissolved) | < 0.001 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Iron (Dissolved) | 0.153 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | 7470/E245.1 |
| Potassium (Dissolved) | 29.7 | 0.1 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Magnesium (Dissolved) | 32.8 | 0.01 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Manganese (Dissolved) | 0.720 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Sodium (Dissolved) | 41.9 | 0.11 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Nickel (Dissolved) | 0.002 | 0.001 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 |

Project ID: 505 UNION AVE.
Client ID: DUPLICATE

Phoenix I.D.: BB99263

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.005 | 0.005 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Selenium (Dissolved) | < 0.011 | 0.011 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Thallium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | RS | 7010/279.2 | |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Zinc (Dissolved) | < 0.002 | 0.002 | mg/L | 06/18/12 | | lk | SW6010/E200.7 | |
| Iron | 16.9 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Mercury | 0.0002 | 0.0002 | mg/L | 06/18/12 | | RS | SW7470/245.1 | |
| Potassium | 29.1 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Magnesium | 35.8 | 0.01 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Manganese | 0.870 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Sodium | 42.5 | 0.1 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | B |
| Nickel | 0.009 | 0.001 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Lead | 0.264 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Antimony | < 0.005 | 0.005 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Selenium | < 0.010 | 0.010 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Thallium | < 0.002 | 0.002 | mg/L | 06/26/12 | | RS | SW7010/200.9 | |
| Dissolved Metals Preparation | Completed | | | 06/15/12 | | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 06/15/12 | | AG | | |
| Vanadium | 0.012 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Zinc | 0.076 | 0.002 | mg/L | 06/16/12 | | LK | SW6010/E200.7 | |
| Filtration | Completed | | | 06/15/12 | | AG | 0.45um Filter | |
| Dissolved Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470 | |
| Mercury Digestion | Completed | | | 06/18/12 | | /X | SW7470/245.1 | |
| PCB Extraction | Completed | | | 06/15/12 | | L | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 06/15/12 | | L | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 06/15/12 | | F/D | SW3520 | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1221 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1232 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1242 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1248 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1254 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1260 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1262 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| PCB-1268 | ND | 0.10 | ug/L | 06/18/12 | | MH | 608/ 8082 | |
| QA/QC Surrogates | | | | | | | | |
| % DCBP | 53 | | % | 06/18/12 | | MH | 30 - 150 % | |
| % TCMX | 79 | | % | 06/18/12 | | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | | |
| 4,4' -DDD | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDE | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| 4,4' -DDT | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| a-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Alachlor | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | 1 |
| Aldrin | ND | 0.003 | ug/L | 06/23/12 | | MH | SW8081 | |
| b-BHC | ND | 0.01 | ug/L | 06/23/12 | | MH | SW8081 | |
| Chlordane | ND | 0.3 | ug/L | 06/23/12 | | MH | SW8081 | |
| d-BHC | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Dieldrin | ND | 0.002 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan I | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan II | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endosulfan Sulfate | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin Aldehyde | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| Endrin ketone | ND | 0.1 | ug/L | 06/23/12 | | MH | SW8081 | |
| g-BHC (Lindane) | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Heptachlor epoxide | ND | 0.05 | ug/L | 06/23/12 | | MH | SW8081 | |
| Methoxychlor | ND | 0.2 | ug/L | 06/23/12 | | MH | SW8081 | |
| Toxaphene | ND | 1.0 | ug/L | 06/23/12 | | MH | SW8081 | |
| QA/QC Surrogates | | | | | | | | |
| %DCBP (Surrogate Rec) | 50 | | % | 06/23/12 | | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | 71 | | % | 06/23/12 | | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acetone | ND | 25 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Bromochloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/18/12 | | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | 1P |
| Vinyl chloride | ND | 1.0 | ug/L | 06/18/12 | | R/J | SW8260 | |
| QA/QC Surrogates | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 100 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 06/18/12 | | R/J | 70 - 130 % | |
| % Toluene-d8 | 100 | | % | 06/18/12 | | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Chlorophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 2-Nitrophenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 3-Nitroaniline | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chloroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitroaniline | ND | 20 | ug/L | 06/19/12 | | DD | SW8270 | |
| 4-Nitrophenol | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Acetophenone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Aniline | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | LO |
| Anthracene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Azobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | 1 |
| Benzidine | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | |
| Benzoic acid | ND | 50 | ug/L | 06/19/12 | | DD | SW8270 | 1P |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Carbazole | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dibenzofuran | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Diethyl phthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluoranthene | 5.2 | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Fluorene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Isophorone | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Naphthalene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Nitrobenzene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| Phenol | ND | 10 | ug/L | 06/19/12 | | DD | SW8270 | |
| Pyrene | ND | 5.0 | ug/L | 06/19/12 | | DD | SW8270 | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/19/12 | | DD | 15 - 130 % | |

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| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| % 2-Fluorobiphenyl | 69 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 59 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 67 | | % | 06/19/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 54 | | % | 06/19/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 52 | | % | 06/19/12 | | DD | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthene | 0.45 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Acenaphthylene | 0.57 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benz(a)anthracene | 3 | 0.040 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | 2.2 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | 2.7 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | 1.1 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Chrysene | 2.6 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | 0.41 | 0.010 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.4 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | 1.1 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | 1O |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Phenanthrene | 4.3 | 0.050 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 06/18/12 | | DD | SW8270 (SIM) | |
| QA/QC Surrogates | | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 69 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % 2-Fluorophenol | 59 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 67 | | % | 06/18/12 | | DD | 30 - 130 % | |
| % Phenol-d5 | 54 | | % | 06/18/12 | | DD | 15 - 130 % | |
| % Terphenyl-d14 | 52 | | % | 06/18/12 | | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

## Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quanitation)

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Phyllis Shiller, Laboratory Director
June 28, 2012
Reviewed and Released by: Johanna Harrington, Project Manager

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

June 28, 2012

## QA/QC Data

SDG I.D.: GBB99259

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 202535, QC Sample No: BB97092 (BB99259, BB99260, BB99261, BB99262, BB99263) | | | | | | | | | | | | |
| Thallium - Water | BDL | <0.001 | <0.001 | NC | 114 | 114 | 0.0 | 113 | 114 | 0.9 | 75 - 125 | 20 |
| QA/QC Batch 202765, QC Sample No: BB98341 (BB99259, BB99260, BB99261, BB99262, BB99263) | | | | | | | | | | | | |
| **ICP Metals - Dissolved** | | | | | | | | | | | | |
| Aluminum | BDL | 0.046 | 0.05 | 8.30 | 87.1 | 86.0 | 1.3 | 86.9 | 87.4 | 0.6 | 75 - 125 | 20 |
| Antimony | BDL | <0.005 | <0.005 | NC | 90.5 | 89.5 | 1.1 | 89.8 | 91.7 | 2.1 | 75 - 125 | 20 |
| Arsenic | BDL | <0.004 | <0.004 | NC | 90.5 | 89.4 | 1.2 | 90.1 | 91.9 | 2.0 | 75 - 125 | 20 |
| Barium | BDL | 0.030 | 0.030 | 0 | 90.7 | 90.2 | 0.6 | 90.7 | 92.4 | 1.9 | 75 - 125 | 20 |
| Beryllium | BDL | <0.004 | <0.001 | NC | 89.8 | 89.5 | 0.3 | 89.2 | 91.3 | 2.3 | 75 - 125 | 20 |
| Cadmium | BDL | <0.001 | <0.001 | NC | 93.9 | 92.2 | 1.8 | 93.0 | 93.9 | 1.0 | 75 - 125 | 20 |
| Calcium | BDL | 20.9 | 20.5 | 1.90 | 91.3 | 89.6 | 1.9 | NC | NC | NC | 75 - 125 | 20 |
| Chromium | BDL | <0.001 | <0.001 | NC | 90.3 | 88.9 | 1.6 | 90.0 | 90.9 | 1.0 | 75 - 125 | 20 |
| Cobalt | BDL | <0.004 | <0.001 | NC | 91.8 | 90.2 | 1.8 | 91.0 | 92.1 | 1.2 | 75 - 125 | 20 |
| Copper | BDL | <0.005 | <0.005 | NC | 90.7 | 89.4 | 1.4 | 91.3 | 92.5 | 1.3 | 75 - 125 | 20 |
| Iron | BDL | <0.011 | <0.011 | NC | 88.8 | 87.6 | 1.4 | 91.6 | 89.9 | 1.9 | 75 - 125 | 20 |
| Lead | BDL | <0.002 | <0.002 | NC | 91.2 | 89.3 | 2.1 | 90.0 | 91.3 | 1.4 | 75 - 125 | 20 |
| Magnesium | BDL | 5.05 | 4.99 | 1.20 | 91.7 | 91.4 | 0.3 | NC | NC | NC | 75 - 125 | 20 |
| Manganese | BDL | 0.031 | 0.030 | 3.30 | 89.8 | 89.4 | 0.4 | 89.2 | 91.2 | 2.2 | 75 - 125 | 20 |
| Nickel | BDL | <0.001 | <0.001 | NC | 90.2 | 88.5 | 1.9 | 89.3 | 90.2 | 1.0 | 75 - 125 | 20 |
| Potassium | BDL | 1.0 | 0.9 | 10.5 | 90.9 | 91.8 | 1.0 | 91.0 | 95.9 | 5.2 | 75 - 125 | 20 |
| Selenium | BDL | <0.011 | <0.011 | NC | 86.6 | 86.3 | 0.3 | 87.1 | 88.7 | 1.8 | 75 - 125 | 20 |
| Silver | BDL | <0.001 | <0.001 | NC | 89.5 | 87.8 | 1.9 | 89.4 | 90.5 | 1.2 | 75 - 125 | 20 |
| Sodium | BDL | 7.66 | 7.57 | 1.20 | 91.4 | 92.3 | 1.0 | NC | NC | NC | 75 - 125 | 20 |
| Vanadium | BDL | <0.002 | <0.002 | NC | 89.2 | 88.1 | 1.2 | 89.2 | 90.4 | 1.3 | 75 - 125 | 20 |
| Zinc | BDL | <0.002 | <0.002 | NC | 92.7 | 91.2 | 1.6 | 93.1 | 94.2 | 1.2 | 75 - 125 | 20 |
| QA/QC Batch 202867, QC Sample No: BB99015 (BB99259) | | | | | | | | | | | | |
| Mercury - Water | BDL | <0.0002 | <0.0002 | NC | 95.7 | 93.5 | 2.3 | 97.1 | 94.8 | 2.4 | 70 - 130 | 20 |
| QA/QC Batch 202842, QC Sample No: BB99259 (BB99259, BB99260, BB99261, BB99262, BB99263) | | | | | | | | | | | | |
| **Dissolved Metals** | | | | | | | | | | | | |
| Thallium | BDL | <0.002 | | | 116 | 115 | 0.9 | | | | 75 - 125 | 30 |
| QA/QC Batch 202868, QC Sample No: BB99260 (BB99260, BB99261, BB99262, BB99263) | | | | | | | | | | | | |
| Mercury - Water | BDL | <0.0002 | <0.0002 | NC | 94.3 | 95.9 | 1.7 | 97.2 | 93.7 | 3.7 | 70 - 130 | 20 |
| QA/QC Batch 202847, QC Sample No: BB99289 (BB99259, BB99260, BB99261, BB99262, BB99263) | | | | | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | | | | | |
| Aluminum | BDL | <0.010 | <0.010 | NC | 95.0 | 95.9 | 0.9 | 90.9 | 90.3 | 0.7 | 75 - 125 | 20 |
| Antimony | BDL | <0.005 | <0.005 | NC | 97.5 | 99.7 | 2.2 | 94.9 | 93.1 | 1.9 | 75 - 125 | 20 |
| Arsenic | BDL | <0.004 | <0.004 | NC | 96.1 | 97.7 | 1.7 | 94.2 | 91.6 | 2.8 | 75 - 125 | 20 |
| Barium | BDL | <0.002 | <0.002 | NC | 99.7 | 100 | 0.3 | 95.9 | 94.0 | 2.0 | 75 - 125 | 20 |
| Beryllium | BDL | <0.001 | <0.001 | NC | 98.2 | 98.8 | 0.6 | 95.6 | 93.2 | 2.5 | 75 - 125 | 20 |
| Cadmium | BDL | <0.001 | <0.001 | NC | 99.4 | 101 | 1.6 | 97.5 | 95.5 | 2.1 | 75 - 125 | 20 |
| Calcium | BDL | 0.091 | 0.093 | 2.20 | 98.7 | 99.2 | 0.5 | 95.2 | 94.1 | 1.2 | 75 - 125 | 20 |

# QA/QC Data

SDG I.D.: GBB99259

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | BDL | <0.001 | <0.001 | NC | 96.8 | 98.2 | 1.4 | 94.0 | 92.7 | 1.4 | 75 - 125 | 20 |
| Cobalt | BDL | <0.002 | <0.002 | NC | 98.5 | 99.1 | 0.6 | 95.3 | 94.1 | 1.3 | 75 - 125 | 20 |
| Copper | BDL | <0.005 | <0.005 | NC | 99.0 | 99.5 | 0.5 | 94.5 | 94.2 | 0.3 | 75 - 125 | 20 |
| Iron | BDL | 0.011 | <0.010 | NC | 95.6 | 95.9 | 0.3 | 91.5 | 90.9 | 0.7 | 75 - 125 | 20 |
| Lead | BDL | 0.003 | 0.003 | NC | 97.6 | 98.1 | 0.5 | 94.7 | 93.2 | 1.6 | 75 - 125 | 20 |
| Magnesium | BDL | <0.01 | <0.01 | NC | 98.4 | 99.0 | 0.6 | 95.4 | 93.4 | 2.1 | 75 - 125 | 20 |
| Manganese | BDL | <0.002 | <0.001 | NC | 97.2 | 98.0 | 0.8 | 94.5 | 91.8 | 2.9 | 75 - 125 | 20 |
| Nickel | BDL | <0.002 | <0.001 | NC | 96.2 | 97.4 | 1.2 | 93.7 | 92.3 | 1.5 | 75 - 125 | 20 |
| Potassium | BDL | 0.1 | 0.2 | NC | 97.9 | 99.9 | 2.0 | 96.4 | 94.7 | 1.8 | 75 - 125 | 20 |
| Selenium | BDL | <0.010 | <0.010 | NC | 95.9 | 97.0 | 1.1 | 93.3 | 90.6 | 2.9 | 75 - 125 | 20 |
| Silver | BDL | <0.002 | <0.001 | NC | 97.9 | 98.4 | 0.5 | 93.8 | 93.6 | 0.2 | 75 - 125 | 20 |
| Sodium | 0.3 | 0.54 | 0.6 | 10.5 | 114 | 116 | 1.7 | 109 | 109 | 0.0 | 75 - 125 | 20 |
| Vanadium | BDL | <0.002 | <0.002 | NC | 96.7 | 97.3 | 0.6 | 93.0 | 92.1 | 1.0 | 75 - 125 | 20 |
| Zinc | BDL | 0.004 | 0.004 | NC | 100 | 101 | 1.0 | 97.3 | 96.0 | 1.3 | 75 - 125 | 20 |

PHOENIX

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# QA/QC Report

June 28, 2012

## QA/QC Data

SDG I.D.: GBB99259

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 202753, QC Sample No: BB91706 (BB99259, BB99260, BB99261, BB99262, BB99263) | | | | | | | | | |
| **Pesticides - Ground Water** | | | | | | | | | |
| 4,4' -DDD | ND | 85 | 86 | 1.2 | | | | 40 - 140 | 20 |
| 4,4' -DDE | ND | 73 | 74 | 1.4 | | | | 40 - 140 | 20 |
| 4,4' -DDT | ND | 84 | 85 | 1.2 | | | | 40 - 140 | 20 |
| a-BHC | ND | 74 | 73 | 1.4 | | | | 40 - 140 | 20 |
| a-Chlordane | ND | 75 | 76 | 1.3 | | | | 40 - 140 | 20 |
| Alachlor | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| Aldrin | ND | 70 | 70 | 0.0 | | | | 40 - 140 | 20 |
| b-BHC | ND | 73 | 72 | 1.4 | | | | 40 - 140 | 20 |
| Chlordane | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| d-BHC | ND | 77 | 77 | 0.0 | | | | 40 - 140 | 20 |
| Dieldrin | ND | 79 | 79 | 0.0 | | | | 40 - 140 | 20 |
| Endosulfan I | ND | 76 | 76 | 0.0 | | | | 40 - 140 | 20 |
| Endosulfan II | ND | 89 | 91 | 2.2 | | | | 40 - 140 | 20 |
| Endosulfan sulfate | ND | 83 | 83 | 0.0 | | | | 40 - 140 | 20 |
| Endrin | ND | 105 | 103 | 1.9 | | | | 40 - 140 | 20 |
| Endrin aldehyde | ND | 80 | 81 | 1.2 | | | | 40 - 140 | 20 |
| Endrin ketone | ND | 86 | 89 | 3.4 | | | | 40 - 140 | 20 |
| g-BHC | ND | 74 | 73 | 1.4 | | | | 40 - 140 | 20 |
| g-Chlordane | ND | 76 | 76 | 0.0 | | | | 40 - 140 | 20 |
| Heptachlor | ND | 75 | 75 | 0.0 | | | | 40 - 140 | 20 |
| Heptachlor epoxide | ND | 73 | 72 | 1.4 | | | | 40 - 140 | 20 |
| Methoxychlor | ND | 93 | 96 | 3.2 | | | | 40 - 140 | 20 |
| Toxaphene | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| % DCBP | 91 | 80 | 80 | 0.0 | | | | 30 - 150 | 20 |
| % TCMX | 87 | 78 | 75 | 3.9 | | | | 30 - 150 | 20 |

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 202542, QC Sample No: BB96982 (BB99259, BB99260, BB99261, BB99262, BB99263) | | | | | | | | | |
| **Polychlorinated Biphenyls - Ground Water** | | | | | | | | | |
| PCB-1016 | ND | 95 | 98 | 3.1 | | | | 40 - 140 | 20 |
| PCB-1221 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1232 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1242 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1248 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1254 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1260 | ND | 99 | 103 | 4.0 | | | | 40 - 140 | 20 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 20 |
| % DCBP (Surrogate Rec) | 86 | 83 | 85 | 2.4 | | | | 30 - 150 | 20 |
| % TCMX (Surrogate Rec) | 84 | 83 | 86 | 3.6 | | | | 30 - 150 | 20 |

# QA/QC Data

SDG I.D.: GBB99259

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 202740, QC Sample No: BB98366 (BB99259, BB99260, BB99261, BB99262, BB99263)

## Semivolatiles - Ground Water

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 73 | 73 | 0.0 | | | | 30 - 130 | 20 | |
| 1,2,4-Trichlorobenzene | ND | 71 | 74 | 4.1 | | | | 30 - 130 | 20 | |
| 1,2-Dichlorobenzene | ND | 75 | 73 | 2.7 | | | | 30 - 130 | 20 | |
| 1,3-Dichlorobenzene | ND | 69 | 71 | 2.9 | | | | 30 - 130 | 20 | |
| 1,4-Dichlorobenzene | ND | 72 | 77 | 6.7 | | | | 30 - 130 | 20 | |
| 2,4,5-Trichlorophenol | ND | 87 | 81 | 7.1 | | | | 30 - 130 | 20 | |
| 2,4,6-Trichlorophenol | ND | 86 | 81 | 6.0 | | | | 30 - 130 | 20 | |
| 2,4-Dichlorophenol | ND | 70 | 71 | 1.4 | | | | 30 - 130 | 20 | |
| 2,4-Dimethylphenol | ND | 50 | 50 | 0.0 | | | | 30 - 130 | 20 | |
| 2,4-Dinitrophenol | ND | 33 | 29 | 12.9 | | | | 30 - 130 | 20 | I |
| 2,4-Dinitrotoluene | ND | 89 | 81 | 9.4 | | | | 30 - 130 | 20 | |
| 2,6-Dinitrotoluene | ND | 91 | 86 | 5.6 | | | | 30 - 130 | 20 | |
| 2-Chloronaphthalene | ND | 86 | 80 | 7.2 | | | | 30 - 130 | 20 | |
| 2-Chlorophenol | ND | 68 | 70 | 2.9 | | | | 30 - 130 | 20 | |
| 2-Methylnaphthalene | ND | 73 | 73 | 0.0 | | | | 30 - 130 | 20 | |
| 2-Methylphenol (o-cresol) | ND | 60 | 59 | 1.7 | | | | 30 - 130 | 20 | |
| 2-Nitroaniline | ND | 43 | 32 | 29.3 | | | | 30 - 130 | 20 | r |
| 2-Nitrophenol | ND | 78 | 81 | 3.8 | | | | 30 - 130 | 20 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 62 | 63 | 1.6 | | | | 30 - 130 | 20 | |
| 3,3'-Dichlorobenzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| 3-Nitroaniline | ND | 31 | 31 | 0.0 | | | | 30 - 130 | 20 | |
| 4,6-Dinitro-2-methylphenol | ND | 76 | 77 | 1.3 | | | | 30 - 130 | 20 | |
| 4-Bromophenyl phenyl ether | ND | 77 | 77 | 0.0 | | | | 30 - 130 | 20 | |
| 4-Chloro-3-methylphenol | ND | 78 | 79 | 1.3 | | | | 30 - 130 | 20 | |
| 4-Chloroaniline | ND | <5 | 27 | NC | | | | 30 - 130 | 20 | I |
| 4-Chlorophenyl phenyl ether | ND | 85 | 75 | 12.5 | | | | 30 - 130 | 20 | |
| 4-Nitroaniline | ND | 65 | 64 | 1.6 | | | | 30 - 130 | 20 | |
| 4-Nitrophenol | ND | 75 | 62 | 19.0 | | | | 30 - 130 | 20 | |
| Acenaphthene | ND | 68 | 63 | 7.6 | | | | 30 - 130 | 20 | |
| Acenaphthylene | ND | 35 | 37 | 5.6 | | | | 30 - 130 | 20 | |
| Acetophenone | ND | 73 | 74 | 1.4 | | | | 30 - 130 | 20 | |
| Aniline | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Anthracene | ND | 68 | 70 | 2.9 | | | | 30 - 130 | 20 | |
| Azobenzene | ND | 41 | 46 | 11.5 | | | | 30 - 130 | 20 | |
| Benz(a)anthracene | ND | 72 | 76 | 5.4 | | | | 30 - 130 | 20 | |
| Benzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Benzo(a)pyrene | ND | 85 | 82 | 3.6 | | | | 30 - 130 | 20 | |
| Benzo(b)fluoranthene | ND | 133 | 114 | 15.4 | | | | 30 - 130 | 20 | I |
| Benzo(ghi)perylene | ND | 112 | 113 | 0.9 | | | | 30 - 130 | 20 | |
| Benzo(k)fluoranthene | ND | 109 | 110 | 0.9 | | | | 30 - 130 | 20 | |
| Benzoic acid | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Benzyl butyl phthalate | ND | 42 | 50 | 17.4 | | | | 30 - 130 | 20 | |
| Bis(2-chloroethoxy)methane | ND | 28 | 30 | 6.9 | | | | 30 - 130 | 20 | I |
| Bis(2-chloroethyl)ether | ND | 70 | 70 | 0.0 | | | | 30 - 130 | 20 | |
| Bis(2-chloroisopropyl)ether | ND | 79 | 81 | 2.5 | | | | 30 - 130 | 20 | |
| Bis(2-ethylhexyl)phthalate | ND | 98 | 97 | 1.0 | | | | 30 - 130 | 20 | |
| Carbazole | ND | 55 | 60 | 8.7 | | | | 30 - 130 | 20 | |
| Chrysene | ND | 74 | 75 | 1.3 | | | | 30 - 130 | 20 | |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | ND | 126 | 124 | 1.6 | | | | 30 - 130 | 20 | |
| Dibenzofuran | ND | 84 | 79 | 6.1 | | | | 30 - 130 | 20 | |
| Diethyl phthalate | ND | 85 | 82 | 3.6 | | | | 30 - 130 | 20 | |
| Dimethylphthalate | ND | 85 | 79 | 7.3 | | | | 30 - 130 | 20 | |
| Di-n-butylphthalate | ND | 83 | 85 | 2.4 | | | | 30 - 130 | 20 | |
| Di-n-octylphthalate | ND | 81 | 86 | 6.0 | | | | 30 - 130 | 20 | |
| Fluoranthene | ND | 74 | 73 | 1.4 | | | | 30 - 130 | 20 | |
| Fluorene | ND | 80 | 74 | 7.8 | | | | 30 - 130 | 20 | |
| Hexachlorobenzene | ND | 87 | 93 | 6.7 | | | | 30 - 130 | 20 | |
| Hexachlorobutadiene | ND | 74 | 76 | 2.7 | | | | 30 - 130 | 20 | |
| Hexachlorocyclopentadiene | ND | 21 | 13 | 47.1 | | | | 30 - 130 | 20 | l,r |
| Hexachloroethane | ND | 71 | 67 | 5.8 | | | | 30 - 130 | 20 | |
| Indeno(1,2,3-cd)pyrene | ND | 109 | 110 | 0.9 | | | | 30 - 130 | 20 | |
| Isophorone | ND | 83 | 83 | 0.0 | | | | 30 - 130 | 20 | |
| Naphthalene | ND | 73 | 72 | 1.4 | | | | 30 - 130 | 20 | |
| Nitrobenzene | ND | 75 | 79 | 5.2 | | | | 30 - 130 | 20 | |
| N-Nitrosodimethylamine | ND | 53 | 60 | 12.4 | | | | 30 - 130 | 20 | |
| N-Nitrosodi-n-propylamine | ND | 69 | 69 | 0.0 | | | | 30 - 130 | 20 | |
| N-Nitrosodiphenylamine | ND | 45 | 48 | 6.5 | | | | 30 - 130 | 20 | |
| Pentachloronitrobenzene | ND | 87 | 85 | 2.3 | | | | 30 - 130 | 20 | |
| Pentachlorophenol | ND | 59 | 57 | 3.4 | | | | 30 - 130 | 20 | |
| Phenanthrene | ND | 80 | 80 | 0.0 | | | | 30 - 130 | 20 | |
| Phenol | ND | 53 | 53 | 0.0 | | | | 30 - 130 | 20 | |
| Pyrene | ND | 60 | 65 | 8.0 | | | | 30 - 130 | 20 | |
| Pyridine | ND | <5 | <5 | NC | | | | 30 - 130 | 20 | l |
| % 2,4,6-Tribromophenol | 92 | 80 | 84 | 4.9 | | | | 15 - 130 | 20 | |
| % 2-Fluorobiphenyl | 70 | 80 | 73 | 9.2 | | | | 30 - 130 | 20 | |
| % 2-Fluorophenol | 69 | 58 | 56 | 3.5 | | | | 15 - 130 | 20 | |
| % Nitrobenzene-d5 | 65 | 73 | 70 | 4.2 | | | | 30 - 130 | 20 | |
| % Phenol-d5 | 11 | 28 | 34 | 19.4 | | | | 15 - 130 | 20 | |
| % Terphenyl-d14 | 70 | 73 | 72 | 1.4 | | | | 30 - 130 | 20 | |

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 203034, QC Sample No: BB99427 (BB99259, BB99260, BB99261, BB99262, BB99263)

## Volatiles - Ground Water

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 110 | 109 | 0.9 | 133 | 134 | 0.7 | 70 - 130 | 30 | m |
| 1,1,1-Trichloroethane | ND | 103 | 97 | 6.0 | 133 | 128 | 3.8 | 70 - 130 | 30 | m |
| 1,1,2,2-Tetrachloroethane | ND | 101 | 99 | 2.0 | 108 | 107 | 0.9 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 104 | 103 | 1.0 | 112 | 110 | 1.8 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 100 | 96 | 4.1 | 114 | 115 | 0.9 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 93 | 90 | 3.3 | 114 | 115 | 0.9 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 95 | 92 | 3.2 | 127 | 124 | 2.4 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 103 | 103 | 0.0 | 114 | 116 | 1.7 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 96 | 96 | 0.0 | 116 | 112 | 3.5 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 101 | 99 | 2.0 | 113 | 115 | 1.8 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 102 | 100 | 2.0 | 120 | 120 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 102 | 99 | 3.0 | 105 | 100 | 4.9 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 103 | 101 | 2.0 | 113 | 108 | 4.5 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 95 | 93 | 2.1 | 112 | 112 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 100 | 99 | 1.0 | 127 | 121 | 4.8 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 98 | 95 | 3.1 | 109 | 104 | 4.7 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 99 | 101 | 2.0 | 121 | 120 | 0.8 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB99259

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 100 | 99 | 1.0 | 117 | 114 | 2.6 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 99 | 97 | 2.0 | 108 | 108 | 0.0 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 95 | 93 | 2.1 | 115 | 114 | 0.9 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 88 | 78 | 12.0 | 88 | 87 | 1.1 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 93 | 95 | 2.1 | 112 | 111 | 0.9 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 114 | 106 | 7.3 | 98 | 99 | 1.0 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 102 | 102 | 0.0 | 120 | 117 | 2.5 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 95 | 92 | 3.2 | 114 | 112 | 1.8 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 113 | 104 | 8.3 | 104 | 103 | 1.0 | 70 - 130 | 30 | |
| Acetone | ND | 97 | 109 | 11.7 | 78 | 99 | 23.7 | 70 - 130 | 30 | |
| Acrylonitrile | ND | 106 | 104 | 1.9 | 90 | 97 | 7.5 | 70 - 130 | 30 | |
| Benzene | ND | 95 | 93 | 2.1 | 117 | 113 | 3.5 | 70 - 130 | 30 | |
| Bromobenzene | ND | 98 | 100 | 2.0 | 114 | 111 | 2.7 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 102 | 99 | 3.0 | 113 | 113 | 0.0 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 101 | 99 | 2.0 | 125 | 119 | 4.9 | 70 - 130 | 30 | |
| Bromoform | ND | 126 | 123 | 2.4 | 137 | 138 | 0.7 | 70 - 130 | 30 | m |
| Bromomethane | ND | 98 | 109 | 10.6 | >150 | >150 | NC | 70 - 130 | 30 | m |
| Carbon Disulfide | ND | 96 | 91 | 5.3 | 104 | 107 | 2.8 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 101 | 97 | 4.0 | >150 | 148 | NC | 70 - 130 | 30 | m |
| Chlorobenzene | ND | 96 | 95 | 1.0 | 118 | 116 | 1.7 | 70 - 130 | 30 | |
| Chloroethane | ND | 91 | 85 | 6.8 | 107 | 116 | 8.1 | 70 - 130 | 30 | |
| Chloroform | ND | 102 | 97 | 5.0 | 116 | 118 | 1.7 | 70 - 130 | 30 | |
| Chloromethane | ND | 83 | 77 | 7.5 | 78 | 84 | 7.4 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 101 | 96 | 5.1 | 111 | 110 | 0.9 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 97 | 92 | 5.3 | 106 | 102 | 3.8 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 102 | 100 | 2.0 | 119 | 119 | 0.0 | 70 - 130 | 30 | |
| Dibromomethane | ND | 98 | 98 | 0.0 | 114 | 110 | 3.6 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 47 | 45 | 4.3 | 69 | 79 | 13.5 | 70 - 130 | 30 | l,m |
| Ethylbenzene | ND | 104 | 106 | 1.9 | 129 | 131 | 1.5 | 70 - 130 | 30 | m |
| Hexachlorobutadiene | ND | 83 | 80 | 3.7 | 118 | 123 | 4.1 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 98 | 98 | 0.0 | 117 | 117 | 0.0 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 105 | 105 | 0.0 | 127 | 127 | 0.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 95 | 91 | 4.3 | <40 | <40 | NC | 70 - 130 | 30 | m |
| Methyl t-butyl ether (MTBE) | ND | 107 | 100 | 6.8 | 104 | 102 | 1.9 | 70 - 130 | 30 | |
| Methylene chloride | ND | 99 | 95 | 4.1 | 102 | 105 | 2.9 | 70 - 130 | 30 | |
| Naphthalene | ND | 110 | 108 | 1.8 | 103 | 112 | 8.4 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 93 | 93 | 0.0 | 116 | 118 | 1.7 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 95 | 96 | 1.0 | 119 | 121 | 1.7 | 70 - 130 | 30 | |
| o-Xylene | ND | 112 | 110 | 1.8 | 127 | 126 | 0.8 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 100 | 98 | 2.0 | 120 | 119 | 0.8 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 96 | 96 | 0.0 | 125 | 125 | 0.0 | 70 - 130 | 30 | |
| Styrene | ND | 126 | 123 | 2.4 | 125 | 125 | 0.0 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 96 | 96 | 0.0 | 119 | 120 | 0.8 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 92 | 91 | 1.1 | 119 | 115 | 3.4 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 115 | 112 | 2.6 | 132 | 125 | 5.4 | 70 - 130 | 30 | m |
| Toluene | ND | 97 | 95 | 2.1 | 115 | 111 | 3.5 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 96 | 91 | 5.3 | 111 | 114 | 2.7 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 100 | 94 | 6.2 | 101 | 98 | 3.0 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 110 | 101 | 8.5 | 74 | 85 | 13.8 | 70 - 130 | 30 | |
| Trichloroethene | ND | 98 | 94 | 4.2 | 117 | 115 | 1.7 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 102 | 94 | 8.2 | 139 | 137 | 1.4 | 70 - 130 | 30 | m |
| Trichlorotrifluoroethane | ND | 103 | 97 | 6.0 | 123 | 125 | 1.6 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 90 | 83 | 8.1 | 102 | 108 | 5.7 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB99259

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| % 1,2-dichlorobenzene-d4 | 101 | 101 | 102 | 1.0 | 100 | 100 | 0.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 97 | 101 | 101 | 0.0 | 104 | 103 | 1.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 101 | 105 | 104 | 1.0 | 103 | 99 | 4.0 | 70 - 130 | 30 |
| % Toluene-d8 | 100 | 99 | 102 | 3.0 | 100 | 99 | 1.0 | 70 - 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
June 28, 2012

# Sample Criteria Exceedences Report

## GBB99259



Requested Criteria: None

State: NY

| SampNo | LocCode | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|---|

*** 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.

# NY/NJ CHAIN OF CUSTODY RECORD

**PHOENIX** Environmental Laboratories, Inc.

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

Temp 4° WHP Pg 1 of 1

**Data Delivery:**
☐ Fax #:
☑ Email: csosik@ebcihcny.com

Customer: EBC
Address: 1808 Middle Country Road, Ridge, NY 11961

Project: 505 Union Ave
Report to: Charlie Sosik
Invoice to:

Project P.O:
Phone #:
Fax #:

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 6/14/12

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

| | Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | VOCs 8260 | SVOCs 8270 | Pest/PCB 8081/8082 | ~~TAL Metals~~ | TAL Metals (Hg) | TAL Metals (dissolved) | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [✓] HCl | GL Amber 1000ml [✓] As is [ ] H2SO4 | PL As is [✓] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 99259 | GW 1 | GW | 6-14-12 | | X | X | X | X | X | | | | | 5 | 3 | 1 | | 1 | | |
| (1) | 99260 | GW 2 | \| | \| | | \| | \| | \| | \| | \| | | | | | \| | \| | \| | | \| | | |
| | 99261 | GW 3 | \| | \| | | \| | \| | \| | \| | \| | | | | | \| | \| | \| | | \| | | |
| | 99262 | GW 4 | \| | \| | | \| | \| | \| | \| | \| | | | | | \| | \| | \| | | \| | | |
| | 99263 | Duplicate | \| | \| | | \| | \| | \| | \| | \| | | | | | \| | \| | \| | | \| | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 6/15/12 | 10:05 |
| [signature] | [signature] | 6-15-12 | 16:30 |

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

**NJ**
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

**NY**
☐ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

**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

**Comments, Special Requirements or Regulations:**
* only received 4 VOA vials not 5 as indicated
E-SITE PRICING
(1) recieved 6 VOA vials not 5 as indicated (MJP)

**State where samples were collected:** NY