# 683 MARCY AVENUE

**BROOKLYN, NEW YORK 11216**

# Remedial Investigation Report

**Prepared for:**

683 Marcy Avenue Realty LLC

119 Lorimer Street

Brooklyn, NY

**Prepared by:**

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

1808 Middle Country Road

Ridge, NY 11961

February 2013

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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 VCP | New York City Voluntary 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, Kevin Brussee, 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 683 Marcy Avenue, Brooklyn, NY, (NYC VCP Site No. 13CVCP116K). 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.

| KEVIN BRUSSEE | 3/18/2013 | |
|---|---|---|
| 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 683 Marcy Avenue in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1785 and Lots 1, 3, and 5 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 10,000-square feet and is bounded by Kosciusko Street to the north, multi-family residential buildings to the south and to the east, and Marcy Avenue to the west. Currently, the Site is undeveloped and vacant. A map of the site boundary is shown in Figure 2. A description of each of the three lots comprising the Site is provided below.

- Lot 5 (683 Marcy Avenue) - A 20 ft by 100 ft corner lot located on the south east corner of the intersection of Marcy Avenue and Kosciuszko Street.
- Lot 3 (685 Marcy Avenue) - A 30 ft by 100 ft lot located between Lot 5 and Lot 1.
- Lot 1 (689 Marcy Avenue) - A 50 ft by 100 ft lot located south of Lot 3 and Lot 5.

**Summary of Proposed Redevelopment Plan**

The proposed future use of the Site will consist of a new 8-story residential building. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R6. The proposed use is consistent with existing zoning for the property.

The entire footprint of the Site (with the exception of a 5 ft thin strip along Kosciuszko Street) will be developed with a new 8-story residential building. A 4,219 $ft^2$ cellar will be constructed along the Marcy Avenue half of the Site. The cellar will be used for utility space, a laundry facility, storage, and as accessory residential space. The first floor space immediately above the cellar will be used for residential space. The rear of the Site will not be excavated for a cellar and will consist of slab-on-grade construction that will be used for parking (13 spaces) and bicycle

parking (12 spaces). The building's boiler room/mechanical room will also be located on the first floor between the parking area and apartments. The second through eighth floors will consist of additional apartment spaces.

The top of the cellar slab will be constructed at approximately 10 ft below sidewalk grade. Therefore, assuming excavation to a depth of 11 ft over a 5,000 $ft^2$ area, a total of approximately 2,000 cubic yards (3,000 tons) will be excavated for the cellar level. An estimated 1 to 2 ft of additional soil will require excavation across the rear of the Site (5,000 $ft^2$) for construction of the building's pile caps, footings, and slab. This is equivalent to an additional 300 cubic yards (450 tons).

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

According to a review of NYC records, City Directory Listings and historic Sanborn maps, as well as personal interviews, the Site was developed with a livery stable, upholstery shop and a retail store by at least 1888. By 1908, the upholstery shop had been converted to several retail stores and a portion of the livery stable converted to a carriage house. Between 1908 and 1932, the livery stable (Lot No. 1) was redeveloped with a garage. By 1962, an addition to the northern retail store had been constructed. By 1978, the retail shops had been demolished, except for the eastern addition to the northern retail store (along Kosciuszko Street). In 1988, the garage building was identified as a K of C Hall, but by 1991, the building was identified as an auto repair shop and the remaining portions of the former retail stores were demolished. The auto repair shop (Lot No. 1) was demolished in September 2012. Sanborn maps from 1932-1987 identified the presence of a gasoline storage tank (likely an underground tank) within the west-central portion of the former garage building (Lot No. 1).

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 7 ft below grade.
2. Area of underground storage tank depicted on 1932-1987 Sanborn maps.

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

683 Marcy Avenue Realty LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 8 soil borings across the entire project Site, and collected 16 soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site and collected 2 groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality. One of the three monitoring wells did not contain any groundwater to sample; and
4. Installed 4 soil vapor probes at the Site and collected 4 samples for chemical analysis.

**Summary of Environmental Findings**

1. Elevation of the property is approximately 43 feet.
2. Depth to groundwater is approximately 45 feet at the Site.
3. Depth to bedrock is at the Site is greater than 100 feet.
4. The stratigraphy of the Site, from the surface down, consists of a layer of historic fill that appears to extend to depths as great as 7ft in portions of the Site. The historic fill layer is underlain by a layer of coarse sand with large stones.
5. Soil/fill samples collected during the RI showed no detectable concentrations of PCBs. No chlorinated VOCs were detected, as the only VOC detected was naphthalene in one shallow soil sample at a concentration (0.100 ppm) below its Unrestricted Use SCO. Nine SVOCs including benzo(a)anthracene (max 65 ppm), benzo(a)pyrene (max 44 ppm), benzo(b)fluoranthene (max of 64 ppm), benzo-(k)fluoranthene (max 17 ppm), chrysene (max of 53 ppm), fluoranthene (max of 160 ppm), indeno(1,2,3-cd)pyrene (max of 20 ppm), phenanthrene (max of 190 ppm), and pyrene (max of 120 ppm) were detected above their respective Restricted Residential Use SCOs within four of the eight shallow soil samples. The SVOCs detected above Restricted Residential SCOs are all PAH compounds and their concentrations and distributions, with the exception of one shallow sample with 905 ppm total SVOCs which will be treated as a hotspot, indicate that they are associated with historic fill material observed during the sampling. The metals copper, lead, mercury, and/or zinc exceeded Unrestricted Use SCOs in six of the eight

shallow soil samples. Of these metals, lead (maximum of 445 ppm) and mercury (maximum of 1.45 ppm) also exceeded Restricted Residential SCOs. Six of the eight deep soil samples showed nickel (maximum of 128 ppm) and/or copper (maximum of 90.8 ppm) above Unrestricted Use SCOs. Pesticides including 4,4,-DDE (maximum of 0.010 ppm), 4,4,-DDT (maximum of 0.038 ppm), and dieldrin (maximum of 0.009 ppm) were detected within the shallow soil samples at concentrations above Unrestricted Use SCOs, but well below Restricted Residential SCOs. No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within any of the deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

6. Groundwater samples collected during the RI showed no detectable concentrations of pesticides, PCBs or SVOCs. No chlorinated VOCs were detected within either groundwater sample, but low levels of petroleum VOCs were detected within both groundwater samples. The VOCs 1,2,4-trimethylbenzene (max 140 ppb), 1,3,5-trimethylbenzene (max 51 ppb), isopropylbenzene (max 15 ppb), n-propylbenzene (max 30 ppb), and sec-butylbenzene (max 6 ppb) were detected above Groundwater Quality Standards (GQSs) in the southwest corner of the Site in proximity to a gasoline storage tank shown on 1932-1987 Sandborn maps. Concentrations of VOCs in the northwest corner of the Site were lower, with only n-propylbenzene (10 ppb) exceeding its GQS. Neither groundwater sample contained a detectable concentration of benzene, toluene, ethylbenzene, or xylene (BTEX) which indicates an older gasoline spill/release. The metals iron, magnesium, manganese, and sodium were detected above their respective NYSDEC GQS in all three dissolved groundwater samples.
7. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at low concentrations. Tetrachloroethylene (PCE) was identified in all four soil vapor samples at a maximum concentration of 7.86 µg/$m^3$. Trichloroethylene (TCE) was reported within one of the four soil vapor samples at a concentration of 0.376 µg/$m^3$. Carbon Tetrachloride was reported in two of the four soil vapor samples at a maximum concentration of 0.503 µg/$m^3$. 1,1,1- TCA was not detected in soil vapor. The PCE and TCE concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs were

generally less than 10 µg/$m^3$. Overall the highest reported concentrations were for acetone (74.5 µg/$m^3$) and ethanol (55.2 µg/$m^3$).

# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND

683 Marcy Avenue Realty LLC has enrolled in the New York City Volunteer Cleanup Program (NYC VCP) to investigate and remediate a 0.23-acre Site located at 683 Marcy Avenue in Bedford-Stuyvesant section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between December 28, 2013, and January 17, 2013. 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 683 Marcy Avenue in the Bedford-Stuyvesant section of Brooklyn, New York, and is identified as Block 1785 and Lots 1, 3, and 5 on the New York City Tax Map. Figure 1 shows the Site location. Combined, the three lots of the Site is 10,000-square feet and is bounded by Kosciusko Street to the north, multi-family residential buildings to the south and to the east, and Marcy Avenue to the west. Currently, the Site is used for undeveloped and vacant. A map of the site boundary is shown in Figure 2. A description of each of the three adjacent lots comprising the Site is provided below.

- Lot 5 (683 Marcy Avenue) - A 20 ft by 100 ft corner lot located on the south east corner of the intersection of Marcy Avenue and Kosciuszko Street.
- Lot 3 (685 Marcy Avenue) - A 30 ft by 100 ft lot located between Lot 5 and Lot 1.
- Lot 1 (689 Marcy Avenue) - A 50 ft by 100 ft lot located south of Lots 3 and 5.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new 8-story residential building. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R6. The proposed use is consistent with existing zoning for the property.

The entire footprint of the Site (with the exception of a 5 ft thin strip along Kosciuszko Street) will be developed with a new 8-story residential building. A 4,219 $ft^2$ cellar will be constructed along the Marcy Avenue half of the Site. The cellar will be used for utility space, a laundry facility, storage, and as accessory residential space. The first floor space immediately above the cellar will be used for residential space.

The rear of the Site will not be excavated for a cellar and will consist of slab-on-grade construction that will be used for parking (13 spaces) and bicycle parking (12 spaces). The building's boiler room/mechanical room will also be located on the first floor between the parking area and apartments. The second through eighth floors will consist of additional apartment spaces.

The top of the cellar slab will be constructed at approximately 10 feet below sidewalk grade. Therefore, assuming excavation to a depth of 11 ft over a 5,000 $ft^2$ area, a total of approximately 2,000 cubic yards (3,000 tons) will be excavated for the cellar level. An estimated 1 to 2 feet of additional soil will require excavation across the rear of the Site (5,000 $ft^2$) for construction of the building's pile caps, footings, and slab. This is equivalent to an additional 300 $yd^3$ (450 tons).

### 1.3 Description of Surrounding Property

The area surrounding the Site is primarily a residential neighborhood. 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. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

**Surrounding Property Usage**

| Direction | Property Description |
|---|---|
| **North –** Opposite side of Kosciuszko Street | Block 1780, Lots 1 and 78 (175 Kosciuszko Street) – Lot 1 is a small corner lot located on the northeast corner of Marcy Avenue and Kosciuszko Street. The lot is undeveloped and used for parking. Lot 78 is developed with a 2-story house and a small concrete capped side yard. |
| **South –** Adjacent properties | Block 1785, Lots 72 to 77 (660, 661, 662, 663, 664 and 665 Lafayette Avenue) – Multiple 25 ft by 100 ft lots that front Lafayette Avenue. All five lots are developed with 3-story row houses. |
| **East –** Adjacent properties | Block 1785, Lots 7501 and 7502 (174 and 176 Kosciuszko Street) – Both 20 ft wide lots were recently re-developed with a single 4-story apartment building. |

| | |
|---|---|
| **West –** Opposite side of Marcy Avenue | Block 1784, Lot 44 (152 Kosciuszko Street) – A 52,500 $ft^2$ playground. The Banneker Playground consists of basketball courts, a hand ball court, swing sets, and jungle gyms. |

# 2.0 SITE HISTORY

## 2.1 Past Uses and Ownership

According to a review of NYC records, City Directory Listings and historic Sanborn maps, as well as personal interviews, the Site was developed with a livery stable, upholstery shop and a retail store by at least 1888. By 1908, the upholstery shop had been converted to several retail stores and a portion of the livery stable converted to a carriage house. Between 1908 and 1932, the livery stable (Lot No. 1) was redeveloped with a garage. By 1962, an addition to the northern retail store had been constructed. By 1978, the retail shops had been demolished, except for the eastern addition to the northern retail store (along Kosciuszko Street). In 1988, the garage building was identified as a K of C Hall, but by 1991, the building was identified as an auto repair shop and the remaining portions of the former retail stores were demolished. The auto repair shop (Lot No. 1) was demolished in September 2012.

Sanborn maps from 1932-1987 identified the presence of a gasoline storage tank (likely an underground tank) within the west-central portion of the former garage building (Lot No. 1).

## 2.2 Previous Investigations

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

## 2.3 Site Inspection

Mr. Charles Sosik of EBC performed the Site inspection on December 11, 2012, beginning at approximately 12:00 pm. The reconnaissance included a visual inspection of the three lots, the sidewalk immediately surrounding the three lots, and the exterior of adjacent properties.

At the time of the inspection the Site was vacant/undeveloped, and unpaved with some sparse vegetation. Property boundaries are enclosed with corrugated steel, wood or chain-link fencing, except for portions of the eastern boundary, which are bordered by the adjacent apartment building. Gated entrances are located along Kosciuszko Street to the north and Marcy Avenue to the west, although no corresponding driveway entrance is located in the sidewalk area, leading from Kosciuszko Street. Several piles of lumber, assorted construction and demolition debris and bagged trash are located across the Site. No evidence of ASTs or USTs (e.g., vent or fill pipes) was observed on the property at the time of the inspection.

## 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 as great as 7 feet below grade.
2. Area of underground storage tank depicted on 1932-1987 Sanborn maps.

A copy of the Phase 1 Report is presented in Attachment A.

# 3.0 PROJECT MANAGEMENT

## 3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kevin Brussee.

## 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

683 Marcy Avenue Realty LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 8 soil borings across the entire project Site, and collected 16 soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site and collected 2 groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality. One of the three monitoring wells did not contain any groundwater to sample; and
4. Installed 4 soil vapor probes at the Site and collected 4 samples for chemical analysis.

### 4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment.

### 4.2 Borings and Monitoring Wells

**Drilling and Soil Logging**

On December 28, 2013, a total of eight soil borings (SB1-SB8) were performed at the Site within the approximate locations shown on Figure 5. The soil boring locations were chosen to gain representative soil and groundwater quality information across the Site. For each of the soil borings, soil samples were collected continuously from grade to a final depth of 15 feet below existing grade using a five-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 obtained from any the of soil borings.

One soil sample was retained from each soil boring representing the interval 0 to 2 feet below grade and one soil sample was retained from each soil boring representing the interval 10 to 12 feet below grade. Soil boring details are provided in Table 1. 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**

A temporary 1-inch diameter PVC monitoring well with 15 feet of 0.010 slot screen was installed at boring locations B1 (MW1), B3 (MW3), and B7 (MW2) set to intersect the water table. Since groundwater was encountered at approximately 45 feet below grade, monitoring wells were installed to a depth of 55 feet. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

**Survey**

Soil borings and wells were located to the nearest 0.10 foot with respect to two or more permanent site features.

**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 groundwater was present within MW2, therefore no water level measurement was recorded. No free product was observed within monitoring wells MW1 and MW3. 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 sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

**Soil Sampling**

Seventeen 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 17 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**

Three groundwater samples were collected for chemical analysis during this RI. Groundwater samples were collected by installing a one-inch diameter PVC well, 10-feet below the water table interface (set at approximately 55 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 are included in Attachment C. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

**Soil Vapor Sampling**

Four soil vapor probes were installed and four soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 10. Soil vapor sampling logs are included in Attachment E.

Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

The four soil vapor implants were installed using Geoprobe™ equipment and tooling. 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 implants were installed to a depth of 12 feet below grade at all locations. Each implant was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implant to a height of approximately 1 foot above the bottom of the implant. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Soil vapor sampling for the four implants installed on December 28, 2012, was conducted on January 17, 2013. 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 four 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 ofthe ample 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 four 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 D). 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);<br>• Pesticides by EPA Method 8081B (rev. 2000);<br>• PCBs by EPA Method 8082A (rev. 2000); |

| | |
|---|---|
| | 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.

# 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 as great as 7 ft below grade in portions of the Site. Native soil consisting of a coarse sand with large stones 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 45 ft.

## 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 Unrestricted Use and Restricted Residential Use SCOs.

Soil/fill samples collected during the RI showed no detectable concentrations of PCBs. No chlorinated VOCs were detected, as the only VOC detected was naphthalene in one shallow soil sample at a concentration (0.100 ppm) below its Unrestricted Use SCO. Nine SVOCs including benzo(a)anthracene (max 65 ppm), benzo(a)pyrene (max 44 ppm), benzo(b)fluoranthene (max of 64 ppm), benzo-(k)fluoranthene (max 17 ppm), chrysene (max of 53 ppm), fluoranthene (max of 160 ppm), indeno(1,2,3-cd)pyrene (max of 20 ppm), phenanthrene (max of 190 ppm), and pyrene (max of 120 ppm) were detected above their respective Restricted Residential Use SCOs within four of the eight shallow soil samples. The SVOCs detected above Restricted Residential SCOs are all PAH compounds and their concentrations and distributions, with the exception of one shallow sample with 905 ppm total SVOCs which will be treated as a hotspot, indicate that they are associated with historic fill material observed during the sampling. The metals copper,

lead, mercury, and/or zinc exceeded Unrestricted Use SCOs in six of the eight shallow soil samples. Of these metals, lead (maximum of 445 ppm) and mercury (maximum of 1.45 ppm) also exceeded Restricted Residential SCOs. Six of the eight deep soil samples showed nickel (maximum of 128 ppm) and/or copper (maximum of 90.8 ppm) above Unrestricted Use SCOs. Pesticides including 4,4,-DDE (maximum of 0.010 ppm), 4,4,-DDT (maximum of 0.038 ppm), and dieldrin (maximum of 0.009 ppm) were detected within the shallow soil samples at concentrations above Unrestricted Use SCOs, but well below Restricted Residential SCOs. No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within any of the deep soil samples collected at the Site. Overall, the 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 detectable concentrations of pesticides, PCBs or SVOCs. No chlorinated VOCs were detected within either groundwater sample, but low levels of petroleum VOCs were detected within both groundwater samples. The VOCs 1,2,4-trimethylbenzene (max 140 ppb), 1,3,5-trimethylbenzene (max 51 ppb), isopropylbenzene (max 15 ppb), n-propylbenzene (max 30 ppb), and sec-butylbenzene (max 6 ppb) were detected above Groundwater Quality Standards (GQSs) in the southwest corner of the Site in proximity to a gasoline storage tank shown on 1932-1987 Sandborn maps. Concentrations of VOCs in the northwest corner of the Site were lower, with only n-propylbenzene (10 ppb) exceeding its GQS. Neither groundwater sample contained a detectable concentration of benzene, toluene, ethylbenzene, or xylene (BTEX) which indicates an older gasoline spill/release. The metals iron, magnesium, manganese, and sodium were detected above their respective NYSDEC GQS in all three dissolved groundwater samples.


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## 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 showed petroleum and chlorinated VOCs at low concentrations. Tetrachloroethylene (PCE) was identified in all four soil vapor samples at a maximum concentration of 7.86 µg/$m^3$. Trichloroethylene (TCE) was reported within one of the four soil vapor samples at a concentration of 0.376 µg/$m^3$. Carbon Tetrachloride was reported in two of the four soil vapor samples at a maximum concentration of 0.503 µg/$m^3$. 1,1,1- TCA was not detected in soil vapor. The PCE and TCE concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs were generally less than 10 µg/$m^3$. Overall the highest reported concentrations were for acetone (74.5 µg/$m^3$) and ethanol (55.2 µg/$m^3$).

## 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.

# ***TABLES***

Table 1
683 Marcy Avenue, Brooklyn, NY
Soil Boring / Well Information

| SAMPLE ID | Date | Total Depth (ft) | Diameter (in) | Construction Materials | Screen Length (ft) | DTW (ft) |
|---|---|---|---|---|---|---|
| B1 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| B2 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| B3 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| B4 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| B5 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| B6 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| B7 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| B8 | 12/28/2013 | 15 | 2 | Geoprobe | - | - |
| | | | | | | |
| MW1 | 12/28/2013 | 55 | 1 | PVC | 15.00 | 42 |
| MW2 | 12/28/2013 | 55 | 1 | PVC | 15.00 | DRY |
| MW3 | 12/28/2013 | 55 | 1 | PVC | 15.00 | 42 |

TABLE 2
683 Marcy 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 | | B8 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') µg/Kg | (10-12') µg/Kg | (0-2') µg/Kg | (10-12') µg/Kg | (0-2') µg/Kg | (10-12') µg/Kg | (0-2') µg/Kg | (10-12') µg/Kg | (0-2') µg/Kg | (10-12') µg/Kg | (0-2') µg/Kg | Duplicate (0-2') µg/Kg | (10-12') µg/Kg | (0-2') µg/Kg | (10-12') µg/Kg | (0-2') µg/Kg | (10-12') µg/Kg |
| | | | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL | Result RL |
| 1,1,1,2-Tetrachlorothane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,1,1-Trichloroethane | 680 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,1,2,2-Tetrachloroethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,1,2-Trichloroethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,1-Dichloroethane | 270 | 26,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,1-Dichloroethene | 330 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,1-Dichloropropene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2,3-Trichlorobenzene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2,3-Trichloropropane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2,4-Trichlorobenzene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2-Dibromo-3-chloropropane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2-Dichloroethane | 20 | 3,100 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,2-Dichloropropane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,3-Dichlorobenzene | 2,400 | 4,900 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,3-Dichloropropane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 2,2-Dichloropropane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 2-Chlorotoluene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 2-Hexanone (Methyl Butyl Ketone) | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 2-Isopropyltoluene | | | ND 28 | ND 27 | ND 29 | ND 27 | ND 27 | ND 26 | ND 27 | ND 26 | ND 28 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 26 |
| 4-Chlorotoluene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| 4-Methyl-2-Pentanone | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Acetone | 50 | 100,000 | ND 28 | ND 27 | ND 29 | ND 27 | ND 27 | ND 26 | ND 27 | ND 26 | ND 28 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 26 |
| Acrylonitrile | | | ND 28 | ND 27 | ND 29 | ND 27 | ND 27 | ND 26 | ND 27 | ND 26 | ND 28 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 26 |
| Benzene | 60 | 4,800 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 10 | ND 11 | ND 10 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 |
| Bromobenzene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Bromochloromethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Bromodichloromethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Bromoform | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Bromomethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Carbon Disulfide | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Carbon tetrachloride | 760 | 2,400 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Chlorobenzene | 1,100 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Chloroethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Chloroform | 370 | 49,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Chloromethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| cis-1,2-Dichloroethene | 250 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| cis-1,3-Dichloropropene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Dibromochloromethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Dibromoethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Dibromomethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Dichlorodifluoromethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Ethylbenzene | 1,000 | 41,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Hexachlorobutadiene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Isopropylbenzene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| m&p-Xylenes | 260 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Methyl Ethyl Ketone (2-Butanone) | 120 | 100,000 | ND 28 | ND 27 | ND 29 | ND 27 | ND 27 | ND 26 | ND 27 | ND 26 | ND 28 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 27 | ND 26 |
| Methyl t-butyl ether (MTBE) | 930 | 100,000 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 10 | ND 11 | ND 10 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 |
| Methylene chloride | 50 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Naphthalene | 12,000 | 100,000 | ND 5.6 | ND 5.4 | **100** 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| n-Butylbenzene | 12,000 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| n-Propylbenzene | 3,900 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| o-Xylene | 260 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| p-Isopropyltoluene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| sec-Butylbenzene | 11,000 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Styrene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| tert-Butylbenzene | 5,900 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Tetrachloroethene | 1,300 | 19,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Tetrahydrofuran (THF) | | | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 10 | ND 11 | ND 10 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 |
| Toluene | 700 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Total Xylenes | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| trans-1,2-Dichloroethene | 190 | 100,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| trans-1,3-Dichloropropene | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| trabs-1,4-dichloro-2-butene | | | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 10 | ND 11 | ND 10 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 | ND 11 |
| Trichloroethene | 470 | 21,000 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Trichlorofluoromethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Trichlorotrifluoroethane | | | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| Vinyl Chloride | 20 | 900 | ND 5.6 | ND 5.4 | ND 5.7 | ND 5.3 | ND 5.5 | ND 5.2 | ND 5.5 | ND 5.2 | ND 5.6 | ND 5.4 | ND 5.5 | ND 5.5 | ND 5.3 | ND 5.4 | ND 5.3 | ND 5.5 | ND 5.3 |
| **Total BTEX Concentration** | | | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** |
| **Total VOCs Concentration** | | | **0.0** | **0.0** | **100.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **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
683 Marcy 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 | | | | B8 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | Duplicate (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,2,4,5-Tetrachlorobenzene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 1,2,4-Trichlorobenzene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 1,2-Dichlorobenzene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 1,2-Diphenylhydrazine | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| 1,3-Dichlorobenzene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 1,4-Dichlorobenzene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2,4,5-Trichlorophenol | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2,4,6-Trichlorophenol | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2,4-Dichlorophenol | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2,4-Dimethylphenol | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2,4-Dinitrophenol | | | ND | 590 | ND | 580 | ND | 5,900 | ND | 560 | ND | 5,800 | ND | 550 | ND | 2,900 | ND | 540 | ND | 580 | ND | 570 | ND | 5,700 | ND | 5,700 | ND | 550 | ND | 560 | ND | 550 | ND | 570 | ND | 550 |
| 2,4-Dinitrotoluene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2,6-Dinitrotoluene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2-Chloronaphthalene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2-Chlorophenol | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2-Methylnaphthalene | | | ND | 260 | ND | 250 | **4,700** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2-Methylphenol (o-cresol) | 330 | 100,000 | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 2-Nitroaniline | | | ND | 590 | ND | 580 | ND | 5,900 | ND | 560 | ND | 5,800 | ND | 550 | ND | 2,900 | ND | 540 | ND | 580 | ND | 570 | ND | 5,700 | ND | 5,700 | ND | 550 | ND | 560 | ND | 550 | ND | 570 | ND | 550 |
| 2-Nitrophenol | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 3&4-Methylphenol (m&p-cresol) | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| 3,3'-Dichlorobenzidine | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 3-Nitroaniline | | | ND | 590 | ND | 580 | ND | 5,900 | ND | 560 | ND | 5,800 | ND | 550 | ND | 2,900 | ND | 540 | ND | 580 | ND | 570 | ND | 5,700 | ND | 5,700 | ND | 550 | ND | 560 | ND | 550 | ND | 570 | ND | 550 |
| 4,6-Dinitro-2-methylphenol | | | ND | 1,100 | ND | 1,000 | ND | 11,000 | ND | 1,000 | ND | 10,000 | ND | 1,000 | ND | 5,300 | ND | 980 | ND | 1,100 | ND | 1,000 | ND | 10,000 | ND | 10,000 | ND | 1000 | ND | 1,000 | ND | 1,000 | ND | 1,000 | ND | 1,000 |
| 4-Bromophenyl phenyl ether | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| 4-Chloro-3-methylphenol | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 4-Chloroaniline | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 4-Chlorophenyl phenyl ether | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| 4-Nitroaniline | | | ND | 590 | ND | 580 | ND | 5,900 | ND | 560 | ND | 5,800 | ND | 550 | ND | 2,900 | ND | 540 | ND | 580 | ND | 570 | ND | 5,700 | ND | 5,700 | ND | 550 | ND | 560 | ND | 550 | ND | 570 | ND | 550 |
| 4-Nitrophenol | | | ND | 1,100 | ND | 1,000 | ND | 11,000 | ND | 1,000 | ND | 10,000 | ND | 1,000 | ND | 5,300 | ND | 980 | ND | 1,100 | ND | 1,000 | ND | 10,000 | ND | 10,000 | ND | 1000 | ND | 1,000 | ND | 1,000 | ND | 1,000 | ND | 1,000 |
| Acenaphthene | 20,000 | 100,000 | ND | 260 | ND | 250 | **18,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Acenaphthylene | 100,000 | 100,000 | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Acetophenone | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Aniline | | | ND | 1,100 | ND | 1,000 | ND | 11,000 | ND | 1,000 | ND | 10,000 | ND | 1,000 | ND | 5,300 | ND | 980 | ND | 1,100 | ND | 1,000 | ND | 10,000 | ND | 10,000 | ND | 1000 | ND | 1,000 | ND | 1,000 | ND | 1,000 | ND | 1,000 |
| Anthracene | 100,000 | 100,000 | ND | 260 | ND | 250 | **43,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | **3,400** | 2,500 | **5,900** | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Benz(a)anthracene | 1,000 | 1,000 | **630** | 260 | ND | 250 | **65,000** | 2,600 | ND | 250 | **2,700** | 2,500 | ND | 240 | **2,700** | 1,300 | ND | 240 | ND | 250 | ND | 250 | **10,000** | 2,500 | **18,000** | 2,500 | ND | 240 | **380** | 250 | ND | 240 | ND | 250 | ND | 240 |
| Benzidine | | | ND | 450 | ND | 430 | ND | 4,500 | ND | 420 | ND | 4,300 | ND | 410 | ND | 2,200 | ND | 410 | ND | 430 | ND | 430 | ND | 4,300 | ND | 4,300 | ND | 420 | ND | 420 | ND | 420 | ND | 430 | ND | 420 |
| Benzo(a)pyrene | 1,000 | 1,000 | **650** | 260 | ND | 250 | **44,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | **2,600** | 1,300 | ND | 240 | ND | 250 | ND | 250 | **9,500** | 2,500 | **16,000** | 2,500 | ND | 240 | **300** | 250 | ND | 240 | ND | 250 | ND | 240 |
| Benzo(b)fluoranthene | 1,000 | 1,000 | **880** | 260 | ND | 250 | **64,000** | 2,600 | ND | 250 | **3,200** | 2,500 | ND | 240 | **3,200** | 1,300 | ND | 240 | **350** | 250 | ND | 250 | **13,000** | 2,500 | **21,000** | 2,500 | ND | 240 | **360** | 250 | ND | 240 | ND | 250 | ND | 240 |
| Benzo(ghi)perylene | 100,000 | 100,000 | **430** | 260 | ND | 250 | **19,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | **1,300** | 1,300 | ND | 240 | ND | 250 | ND | 250 | **4,100** | 2,500 | **7,200** | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Benzo(k)fluoranthene | 800 | 1,000 | **330** | 260 | ND | 250 | **17,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | **4,900** | 2,500 | **9,100** | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Benzoic acid | | | ND | 1,100 | ND | 1,000 | ND | 11,000 | ND | 1,000 | ND | 10,000 | ND | 1,000 | ND | 5,300 | ND | 980 | ND | 1,100 | ND | 1,000 | ND | 10,000 | ND | 10,000 | ND | 1000 | ND | 1,000 | ND | 1,000 | ND | 1,000 | ND | 1,000 |
| Benzyl butyl phthalate | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Bis(2-chloroethoxy)methane | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Bis(2-chloroethyl)ether | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| Bis(2-chloroisopropyl)ether | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Bis(2-ethylhexyl)phthalate | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Carbazole | | | ND | 560 | ND | 540 | **39,000** | 5,600 | ND | 530 | ND | 5,400 | ND | 520 | ND | 2,700 | ND | 510 | ND | 540 | ND | 530 | ND | 5,300 | ND | 5,300 | ND | 520 | ND | 530 | ND | 520 | ND | 540 | ND | 520 |
| Chrysene | 1,000 | 1,000 | **690** | 260 | ND | 250 | **53,000** | 2,600 | ND | 250 | **2,700** | 2,500 | ND | 240 | **2,900** | 1,300 | ND | 240 | ND | 250 | ND | 250 | **12,000** | 2,500 | **20,000** | 2,500 | ND | 240 | **390** | 250 | ND | 240 | ND | 250 | ND | 240 |
| Dibenz(a,h)anthracene | 330 | 330 | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Dibenzofuran | 7,000 | 59,000 | ND | 260 | ND | 250 | **14,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Diethyl phthalate | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Dimethylphthalate | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Di-n-butylphthalate | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Di-n-octylphthalate | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Fluoranthene | 100,000 | 100,000 | **1,500** | 260 | ND | 250 | **160,000** | 2,600 | ND | 250 | **5,700** | 2,500 | ND | 240 | **5,300** | 1,300 | ND | 240 | **310** | 250 | ND | 250 | **22,000** | 2,500 | **35,000** | 2,500 | ND | 240 | **730** | 250 | ND | 240 | ND | 250 | ND | 240 |
| Fluorene | 30,000 | 100,000 | ND | 260 | ND | 250 | **27,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Hexachlorobenzene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Hexachlorobutadiene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Hexachlorocyclopentadiene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Hexachloroethane | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Indeno(1,2,3-cd)pyrene | 500 | 500 | **380** | 260 | ND | 250 | **20,000** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | **4,200** | 2,500 | **7,300** | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Isophorone | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Naphthalene | 12,000 | 100,000 | ND | 260 | ND | 250 | **7,600** | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Nitrobenzene | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| N-Nitrosodimethylamine | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| N-Nitrosodi-n-propylamine | | | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| N-Nitrosodiphenylamine | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| Pentachloronitrobenzene | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| Pentachlorophenol | 800 | 2,400 | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |
| Phenanthrene | 100,000 | 100,000 | **1,100** | 260 | ND | 250 | **190,000** | 2,600 | ND | 250 | **4,400** | 2,500 | ND | 240 | **3,500** | 1,300 | ND | 240 | ND | 250 | ND | 250 | **19,000** | 2,500 | **32,000** | 2,500 | ND | 240 | **850** | 250 | ND | 240 | ND | 250 | ND | 240 |
| Phenol | 330 | 100,000 | ND | 260 | ND | 250 | ND | 2,600 | ND | 250 | ND | 2,500 | ND | 240 | ND | 1,300 | ND | 240 | ND | 250 | ND | 250 | ND | 2,500 | ND | 2,500 | ND | 240 | ND | 250 | ND | 240 | ND | 250 | ND | 240 |
| Pyrene | 100,000 | 100,000 | **1,300** | 260 | ND | 250 | **120,000** | 2,600 | ND | 250 | **4,400** | 2,500 | ND | 240 | **5,000** | 1,300 | ND | 240 | **300** | 250 | ND | 250 | **19,000** | 2,500 | **31,000** | 2,500 | ND | 240 | **720** | 250 | ND | 240 | ND | 250 | ND | 240 |
| Pyridine | | | ND | 370 | ND | 360 | ND | 3,700 | ND | 350 | ND | 3,600 | ND | 340 | ND | 1,800 | ND | 340 | ND | 360 | ND | 350 | ND | 3,600 | ND | 3,500 | ND | 350 | ND | 350 | ND | 350 | ND | 360 | ND | 350 |

**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
683 Marcy 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 | | | | B8 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | Duplicate (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 4,4' -DDD | 3.3 | 2,600 | ND | 2.2 | ND | 2.1 | ND* | 23 | ND | 2.1 | ND* | 22 | ND | 2 | ND | 2.2 | ND | 2.1 | ND | 2.2 | ND | 2.1 | ND | 2.2 | ND* | 21 | ND | 2.1 | ND | 2.1 | ND | 2.1 | ND | 2.2 | ND | 2.1 |
| 4,4' -DDE | 3.3 | 1,800 | **10** | 2.2 | ND | 2.1 | ND* | 23 | ND | 2.1 | ND* | 22 | ND | 2 | ND | 2.9 | ND | 2.1 | **3.6** | 2.2 | ND | 2.1 | ND* | 2.6 | ND* | 21 | ND | 2.1 | ND | 2.1 | ND | 2.1 | ND | 2.2 | ND | 2.1 |
| 4,4' -DDT | 3.3 | 1,700 | **17** | 2.2 | ND | 2.1 | ND* | 23 | ND | 2.1 | ND* | 22 | ND | 2 | **38** | 2.2 | ND | 2.1 | **29** | 2.2 | ND | 2.1 | ND | 2.2 | ND* | 21 | ND | 2.1 | **2.7** | 2.1 | ND | 2.1 | **3.5** | 2.2 | ND | 2.1 |
| a-BHC | 20 | 97 | ND | 3.6 | ND | 3.4 | ND* | 36 | ND | 3.3 | ND* | 35 | ND | 3.3 | ND | 3.5 | ND | 3.3 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND* | 34 | ND | 3.4 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND | 3.3 |
| Alachlor | | | ND | 3.6 | ND | 3.4 | ND* | 36 | ND | 3.3 | ND* | 35 | ND | 3.3 | ND | 3.5 | ND | 3.3 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND* | 34 | ND | 3.4 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND | 3.3 |
| Aldrin | 5 | 19 | ND | 1.1 | ND | 1.1 | ND* | 11 | ND | 1 | ND* | 11 | ND | 1 | ND | 1.1 | ND | 1 | ND | 1.1 | ND | 1 | ND | 1.1 | ND* | 11 | ND | 1 | ND | 1.1 | ND | 1.1 | ND | 1.1 | ND | 1 |
| b-BHC | 36 | 72 | ND | 3.6 | ND | 3.4 | ND* | 36 | ND | 3.3 | ND* | 35 | ND | 3.3 | ND | 3.5 | ND | 3.3 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND* | 34 | ND | 3.4 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND | 3.3 |
| Chlordane | | | **56** | 11 | ND | 11 | ND* | 110 | ND | 10 | ND* | 110 | ND | 10 | ND | 11 | ND | 10 | **74** | 11 | ND | 10 | ND | 11 | ND* | 110 | ND | 10 | **74** | 11 | ND | 11 | **40** | 11 | ND | 10 |
| d-BHC | 40 | 100,000 | ND | 3.6 | ND | 3.4 | ND* | 36 | ND | 3.3 | ND* | 35 | ND | 3.3 | ND | 3.5 | ND | 3.3 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND* | 34 | ND | 3.4 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND | 3.3 |
| Dieldrin | 5 | 39 | ND | 1.1 | ND | 1.1 | ND* | 11 | ND | 1 | ND* | 11 | ND | 1 | **9** | 1.1 | ND | 1 | ND* | 1.8 | ND | 1 | ND* | 4.4 | ND* | 11 | ND | 1 | ND | 1.1 | ND | 1.1 | ND | 1.1 | ND | 1 |
| Endosulfan I | 2,400 | 4,800 | ND | 3.6 | ND | 3.4 | ND* | 36 | ND | 3.3 | ND* | 35 | ND | 3.3 | ND | 3.5 | ND | 3.3 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND* | 34 | ND | 3.4 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND | 3.3 |
| Endosulfan II | 2,400 | 4,800 | ND | 7.2 | ND | 6.9 | ND* | 73 | ND | 6.6 | ND* | 70 | ND | 6.5 | ND | 6.9 | ND | 6.6 | ND | 6.9 | ND | 6.8 | ND | 7 | ND* | 68 | ND | 6.8 | ND | 6.9 | ND | 6.8 | ND | 7 | ND | 6.7 |
| Endosulfan sulfate | 2,400 | 4,800 | ND | 7.2 | ND | 6.9 | ND* | 73 | ND | 6.6 | ND* | 70 | ND | 6.5 | ND | 6.9 | ND | 6.6 | ND | 6.9 | ND | 6.8 | ND | 7 | ND* | 68 | ND | 6.8 | ND | 6.9 | ND | 6.8 | ND | 7 | ND | 6.7 |
| Endrin | 14 | 2,200 | ND | 7.2 | ND | 6.9 | ND* | 73 | ND | 6.6 | ND* | 70 | ND | 6.5 | ND | 6.9 | ND | 6.6 | ND | 6.9 | ND | 6.8 | ND | 7 | ND* | 68 | ND | 6.8 | ND | 6.9 | ND | 6.8 | ND | 7 | ND | 6.7 |
| Endrin aldehyde | | | ND | 7.2 | ND | 6.9 | ND* | 73 | ND | 6.6 | ND* | 70 | ND | 6.5 | ND | 6.9 | ND | 6.6 | ND | 6.9 | ND | 6.8 | ND | 7 | ND* | 68 | ND | 6.8 | ND | 6.9 | ND | 6.8 | ND | 7 | ND | 6.7 |
| Endrin ketone | | | ND | 7.2 | ND | 6.9 | ND* | 73 | ND | 6.6 | ND* | 70 | ND | 6.5 | ND | 6.9 | ND | 6.6 | ND | 6.9 | ND | 6.8 | ND | 7 | ND* | 68 | ND | 6.8 | ND | 6.9 | ND | 6.8 | ND | 7 | ND | 6.7 |
| g-BHC | 100 | 280 | ND | 1.1 | ND | 1.1 | ND* | 11 | ND | 1 | ND* | 11 | ND | 1 | ND | 1.1 | ND | 1 | ND | 1.1 | ND | 1 | ND | 1.1 | ND* | 11 | ND | 1 | ND | 1.1 | ND | 1.1 | ND | 1.1 | ND | 1 |
| Heptachlor | 42 | 420 | ND | 2.2 | ND | 2.1 | ND* | 23 | ND | 2.1 | ND* | 22 | ND | 2 | ND | 2.2 | ND | 2.1 | ND | 2.2 | ND | 2.1 | ND | 2.2 | ND* | 21 | ND | 2.1 | ND | 2.1 | ND | 2.1 | ND | 2.2 | ND | 2.1 |
| Heptachlor epoxide | | | ND | 3.6 | ND | 3.4 | ND* | 36 | ND | 3.3 | ND* | 35 | ND | 3.3 | ND | 3.5 | ND | 3.3 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND* | 34 | ND | 3.4 | ND | 3.4 | ND | 3.4 | ND | 3.5 | ND | 3.3 |
| Methoxychlor | | | ND | 36 | ND | 34 | ND* | 360 | ND | 33 | ND* | 350 | ND | 33 | ND | 35 | ND | 33 | ND | 34 | ND | 34 | ND | 35 | ND* | 340 | ND | 34 | ND | 34 | ND | 34 | ND | 35 | ND | 33 |
| Toxaphene | | | ND | 36 | ND | 34 | ND* | 360 | ND | 33 | ND* | 350 | ND | 33 | ND | 35 | ND | 33 | ND | 34 | ND | 34 | ND | 35 | ND* | 340 | ND | 34 | ND | 34 | ND | 34 | ND | 35 | ND | 33 |
| PCB-1016 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1221 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1232 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1242 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1248 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1254 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1260 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1262 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |
| PCB-1268 | 100 | 1,000 | ND | 75 | ND | 72 | ND | 76 | ND | 69 | ND | 73 | ND | 68 | ND | 72 | ND | 69 | ND | 72 | ND | 70 | ND | 73 | ND | 71 | ND | 70 | ND | 72 | ND | 71 | ND | 72 | ND | 70 |

**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
683 Marcy 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 | | | | B8 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | Duplicate (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | | (0-2') µg/Kg | | (10-12') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| Aluminum | | | **11,200** | 54 | **4,720** | 56 | **9,590** | 55 | **9,160** | 53 | **6,290** | 57 | **10,500** | 52 | **7,240** | 56 | **13,500** | 51 | **6,500** | 56 | **10,200** | 50 | **7,850** | 49 | **6,750** | 57 | **9,050** | 56 | **6,020** | 53 | **9,170** | 50 | **6,980** | 52 | **7,330** | 51 |
| Antimony | | | BRL | 3.6 | BRL | 3.7 | BRL | 3.6 | BRL | 3.5 | BRL | 3.8 | BRL | 3.5 | BRL | 3.7 | BRL | 3.4 | BRL | 3.8 | BRL | 3.4 | BRL | 3.3 | BRL | 3.8 | BRL | 3.7 | BRL | 3.5 | BRL | 3.4 | BRL | 3.5 | BRL | 3.4 |
| Arsenic | 13 | 16 | **4.2** | 0.7 | **1.1** | 0.7 | **6** | 0.7 | **3** | 0.7 | **4** | 0.8 | **3.7** | 0.7 | **4** | 0.7 | **2.4** | 0.7 | **2.6** | 0.8 | **2.2** | 0.7 | **3.3** | 0.7 | **5** | 0.8 | **3.6** | 0.7 | **1.8** | 0.7 | **1.7** | 0.7 | **1.9** | 0.7 | **1.5** | 0.7 |
| Barium | 350 | 350 | **111** | 0.36 | **33** | 0.37 | **187** | 0.36 | **52.6** | 0.35 | **123** | 0.38 | **78** | 0.35 | **115** | 0.37 | **68** | 0.34 | **58.2** | 0.38 | **114** | 0.34 | **90.3** | 0.33 | **132** | 0.38 | **46** | 0.37 | **47.4** | 0.35 | **49.7** | 0.34 | **44.9** | 0.35 | **43.4** | 0.34 |
| Beryllium | 7.2 | 14 | **0.5** | 0.29 | **0.39** | 0.3 | **0.47** | 0.29 | **0.65** | 0.28 | **0.39** | 0.31 | **0.62** | 0.28 | **0.35** | 0.3 | **0.64** | 0.27 | **0.33** | 0.3 | **0.63** | 0.27 | **0.41** | 0.26 | **0.41** | 0.31 | **0.69** | 0.3 | **0.3** | 0.28 | **0.55** | 0.27 | **0.41** | 0.28 | **0.53** | 0.27 |
| Cadmium | 2.5 | 2.5 | BRL | 0.36 | BRL | 0.37 | **0.52** | 0.36 | BRL | 0.35 | **0.41** | 0.38 | BRL | 0.35 | **0.44** | 0.37 | BRL | 0.34 | BRL | 0.38 | BRL | 0.34 | **0.67** | 0.33 | **1.41** | 0.38 | BRL | 0.37 | BRL | 0.35 | BRL | 0.34 | BRL | 0.35 | BRL | 0.34 |
| Calcium | | | **4,340** | 5.4 | **10,600** | 5.6 | **4,510** | 5.5 | **3,440** | 5.3 | **23,000** | 57 | **3,530** | 5.2 | **8,050** | 5.6 | **5,300** | 5.1 | **2,710** | 5.6 | **3,670** | 5 | **4,950** | 4.9 | **5,730** | 5.7 | **2,890** | 5.6 | **2,310** | 5.3 | **2,210** | 5 | **2,730** | 5.2 | **1,760** | 5.1 |
| Chromium | | | **22.2** | 0.36 | **15.4** | 0.37 | **25.3** | 0.36 | **29** | 0.35 | **13.7** | 0.38 | **27.4** | 0.35 | **16.5** | 0.37 | **52.2** | 0.34 | **14** | 0.38 | **19.4** | 0.34 | **16.7** | 0.33 | **15.2** | 0.38 | **27.5** | 0.37 | **14.7** | 0.35 | **26.9** | 0.34 | **16.6** | 0.35 | **25.3** | 0.34 |
| Cobalt | | | **5.48** | 0.36 | **5.45** | 0.37 | **5.91** | 0.36 | **9.45** | 0.35 | **3.8** | 0.38 | **8.74** | 0.35 | **4.86** | 0.37 | **14.6** | 0.34 | **4.21** | 0.38 | **11.3** | 0.34 | **4.94** | 0.33 | **6.44** | 0.38 | **10.2** | 0.37 | **4.17** | 0.35 | **7.4** | 0.34 | **4.46** | 0.35 | **6.98** | 0.34 |
| Copper | 50 | 270 | **42** | 0.36 | **15** | 0.37 | **59.7** | 0.36 | **53** | 0.35 | **76.5** | 0.38 | **90.8** | 0.35 | **30.2** | 0.37 | **34.5** | 0.34 | **22.4** | 0.38 | **57.5** | 0.34 | **38** | 0.33 | **77.6** | 0.38 | **24.3** | 0.37 | **17.9** | 0.35 | **28.9** | 0.34 | **18** | 0.35 | **21.5** | 0.34 |
| Iron | | | **15,500** | 54 | **10,700** | 56 | **17,000** | 55 | **19,900** | 53 | **15,900** | 57 | **22,500** | 52 | **14,800** | 56 | **27,600** | 51 | **12,700** | 56 | **35,100** | 50 | **17,400** | 49 | **16,200** | 57 | **16,200** | 56 | **11,300** | 53 | **18,900** | 50 | **16,400** | 52 | **16,000** | 51 |
| Lead | 63 | 400 | **160** | 3.6 | **7.64** | 0.37 | **445** | 3.6 | **9.08** | 0.35 | **327** | 3.8 | **11.9** | 0.35 | **210** | 3.7 | **12.9** | 0.34 | **176** | 3.8 | **44.2** | 0.34 | **177** | 3.3 | **345** | 3.8 | **21.1** | 0.37 | **52** | 0.35 | **10.9** | 0.34 | **33.6** | 0.35 | **10** | 0.34 |
| Magnesium | | | **2,110** | 5.4 | **2,690** | 5.6 | **2,190** | 5.5 | **4,510** | 5.3 | **11,600** | 57 | **5,080** | 52 | **4,270** | 5.6 | **8,970** | 51 | **2,060** | 5.6 | **5,780** | 50 | **2,700** | 4.9 | **3,240** | 5.7 | **6,000** | 56 | **1,760** | 5.3 | **4,860** | 50 | **2,030** | 5.2 | **4,910** | 5.1 |
| Manganese | 1,600 | 2,000 | **278** | 3.6 | **352** | 3.7 | **267** | 3.6 | **474** | 3.5 | **233** | 3.8 | **373** | 3.5 | **265** | 3.7 | **445** | 3.4 | **205** | 3.8 | **697** | 3.4 | **307** | 3.3 | **285** | 3.8 | **326** | 3.7 | **216** | 3.5 | **343** | 3.4 | **235** | 3.5 | **466** | 3.4 |
| Mercury | 0.18 | 0.81 | **1.38** | 0.07 | BRL | 0.07 | **1.45** | 0.07 | BRL | 0.07 | **0.81** | 0.07 | BRL | 0.07 | **0.34** | 0.07 | BRL | 0.08 | **0.21** | 0.06 | BRL | 0.06 | **0.1** | 0.06 | **0.16** | 0.08 | BRL | 0.08 | **0.08** | 0.06 | BRL | 0.07 | **0.08** | 0.07 | BRL | 0.07 |
| Nickel | 30 | 140 | **12.3** | 0.36 | **23.4** | 0.37 | **15.6** | 0.36 | **38.9** | 0.35 | **13.7** | 0.38 | **35.5** | 0.35 | **13.7** | 0.37 | **128** | 0.34 | **12.2** | 0.38 | **29.1** | 0.34 | **15** | 0.33 | **20.8** | 0.38 | **53.3** | 0.37 | **10.9** | 0.35 | **29.7** | 0.34 | **11.4** | 0.35 | **30.5** | 0.34 |
| Potassium | | | **741** | 5.4 | **1,450** | 5.6 | **890** | 5.5 | **2,020** | 5.3 | **791** | 5.7 | **3,140** | 5.2 | **758** | 5.6 | **3,790** | 51 | **805** | 5.6 | **3,450** | 50 | **865** | 4.9 | **728** | 5.7 | **2,610** | 5.6 | **746** | 5.3 | **2,960** | 5 | **903** | 5.2 | **2,970** | 5.1 |
| Selenium | 3.9 | 36 | BRL | 1.4 | BRL | 1.5 | BRL | 1.5 | BRL | 1.4 | BRL | 1.5 | BRL | 1.4 | BRL | 1.5 | BRL | 1.4 | BRL | 1.5 | BRL | 1.3 | BRL | 1.3 | BRL | 1.5 | BRL | 1.5 | BRL | 1.4 | BRL | 1.3 | BRL | 1.4 | BRL | 1.3 |
| Silver | 2 | 36 | BRL | 0.36 | BRL | 0.37 | BRL | 0.36 | BRL | 0.35 | BRL | 0.38 | BRL | 0.35 | BRL | 0.37 | BRL | 0.34 | BRL | 0.38 | BRL | 0.34 | BRL | 0.33 | BRL | 0.38 | BRL | 0.37 | BRL | 0.35 | BRL | 0.34 | BRL | 0.35 | BRL | 0.34 |
| Sodium | | | **526** | 5.4 | **180** | 5.6 | **126** | 5.5 | **466** | 5.3 | **116** | 5.7 | **533** | 5.2 | **115** | 5.6 | **605** | 5.1 | **86.9** | 5.6 | **562** | 5 | **81** | 4.9 | **66.9** | 5.7 | **497** | 5.6 | **74** | 5.3 | **258** | 5 | **93.3** | 5.2 | **307** | 5.1 |
| Thallium | | | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.5 | BRL | 0.6 | BRL | 0.5 | BRL | 0.5 | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.5 | BRL | 0.6 | BRL | 0.5 |
| Vanadium | | | **31.1** | 0.36 | **21.4** | 0.37 | **28.6** | 0.36 | **35.2** | 0.35 | **27.8** | 0.38 | **35.9** | 0.35 | **23.5** | 0.37 | **46.3** | 0.34 | **20.2** | 0.38 | **94.8** | 0.34 | **28.9** | 0.33 | **30.2** | 0.38 | **32.8** | 0.37 | **20.3** | 0.35 | **41.9** | 0.34 | **25** | 0.35 | **28.5** | 0.34 |
| Zinc | 109 | 2,200 | **101** | 0.36 | **26.1** | 0.37 | **220** | 0.36 | **48.6** | 0.35 | **148** | 0.38 | **81.4** | 0.35 | **138** | 0.37 | **55.9** | 0.34 | **71.1** | 0.38 | **37.6** | 0.34 | **137** | 3.3 | **215** | 3.8 | **59** | 0.37 | **49.1** | 0.35 | **53.2** | 0.34 | **41.8** | 0.35 | **51.9** | 0.34 |

**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
683 Marcy Avenue, Brooklyn , New York
Groundwater Analytical Results
Volatile Organic Compounds

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW3 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachlorothane | 5 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,1-Trichloroethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,2,2-Tetrachloroethane | 5 | ND | 0.5 | ND | 0.5 | ND | 1 |
| 1,1,2-Trichloroethane | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloropropene | | ND | 1 | ND | 1 | ND | 1 |
| 1,2,3-Trichlorobenzene | | ND | 1 | ND | 1 | ND | 1 |
| 1,2,3-Trichloropropane | 0.04 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trichlorobenzene | | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trimethylbenzene | 5 | **140** | 10 | **1.4** | 10 | **140** | 10 |
| 1,2-Dibromo-3-chloropropane | 0.04 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichloroethane | 0.6 | ND | 0.6 | ND | 0.6 | ND | 1 |
| 1,2-Dichloropropane | 0.94 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dibromoethane | | ND | 1 | ND | 1 | ND | 1 |
| 1,3,5-Trimethylbenzene | 5 | **50** | 10 | ND | 10 | **51** | 10 |
| 1,3-Dichlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 |
| 1,3-Dichloropropane | 5 | ND | 1 | ND | 1 | ND | 1 |
| 1,4-Dichlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 |
| 2,2-Dichloropropane | 5 | ND | 1 | ND | 1 | ND | 1 |
| 2-Chlorotoluene | 5 | ND | 1 | ND | 1 | ND | 1 |
| 2-Hexanone (Methyl Butyl Ketone) | | ND | 5 | ND | 5 | ND | 5 |
| 2-Isopropyltoluene | 5 | ND | 1 | ND | 1 | ND | 1 |
| 4-Chlorotoluene | 5 | ND | 1 | ND | 1 | ND | 1 |
| 4-Methyl-2-Pentanone | | ND | 5 | ND | 5 | ND | 5 |
| Acetone | | ND | 25 | ND | 25 | ND | 25 |
| Acrylonitrile | 5 | ND | 5 | ND | 5 | ND | 5 |
| Benzene | 1 | ND | 0.7 | ND | 0.7 | ND | 1 |
| Bromobenzene | 5 | ND | 1 | ND | 1 | ND | 1 |
| Bromochloromethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| Bromodichloromethane | | ND | 0.5 | ND | 0.5 | ND | 1 |
| Bromoform | | ND | 1 | ND | 1 | ND | 1 |
| Bromomethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| Carbon Disulfide | 60 | ND | 5 | ND | 5 | ND | 5 |
| Carbon tetrachloride | 5 | ND | 1 | ND | 1 | ND | 1 |
| Chlorobenzene | 5 | ND | 1 | ND | 1 | ND | 1 |
| Chloroethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| Chloroform | 7 | ND | 5 | ND | 5 | ND | 5 |
| Chloromethane | 60 | ND | 1 | ND | 1 | ND | 1 |
| cis-1,2-Dichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 |
| cis-1,3-Dichloropropene | | ND | 0.4 | ND | 0.4 | ND | 0 |
| Dibromochloromethane | | ND | 0.5 | ND | 0.5 | ND | 1 |
| Dibromomethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| Dichlorodifluoromethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| Ethylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 |
| Hexachlorobutadiene | 0.5 | ND | 0.4 | ND | 0.4 | ND | 0 |
| Isopropylbenzene | 5 | **13** | 1 | ND | 1 | **15** | 1 |
| m&p-Xylenes | 5 | ND | 1 | ND | 1 | ND | 1 |
| Methyl Ethyl Ketone (2-Butanone) | | ND | 5 | ND | 5 | ND | 5 |
| Methyl t-butyl ether (MTBE) | 10 | ND | 1 | ND | 1 | ND | 1 |
| Methylene chloride | 5 | ND | 1 | ND | 1 | ND | 1 |
| Naphthalene | 10 | **4** | 1 | ND | 1 | **4.4** | 1 |
| n-Butylbenzene | 5 | **3.8** | 1 | ND | 1 | **4.2** | 1 |
| n-Propylbenzene | 5 | **30** | 10 | **10** | 10 | **30** | 10 |
| o-Xylene | 5 | ND | 1 | ND | 1 | ND | 1 |
| p-Isopropyltoluene | | **1.8** | 1 | **1.3** | 1 | **2.8** | 1 |
| sec-Butylbenzene | 5 | **5** | 1 | **4.8** | 1 | **6** | 1 |
| Styrene | 5 | ND | 1 | ND | 1 | ND | 1 |
| tert-Butylbenzene | 5 | ND | 1 | ND | 1 | ND | 1 |
| Tetrachloroethene | 5 | ND | 1 | ND | 1 | ND | 1 |
| Tetrahydrofuran (THF) | | ND | 5 | ND | 5 | ND | 5 |
| Toluene | 5 | ND | 1 | ND | 1 | ND | 1 |
| Total Xylenes | 5 | ND | 1 | ND | 1 | ND | 1 |
| trans-1,2-Dichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 |
| trans-1,3-Dichloropropene | 0.4 | ND | 0.4 | ND | 0.4 | ND | 0 |
| trans-1,4-dichloro-2-butene | 5 | ND | 5 | ND | 5 | ND | 5 |
| Trichloroethene | 5 | ND | 1 | ND | 1 | ND | 1 |
| Trichlorofluoromethane | 5 | ND | 1 | ND | 1 | ND | 1 |
| Trichlorotrifluoroethane | | ND | 1 | ND | 1 | ND | 1 |
| Vinyl Chloride | 2 | ND | 1 | ND | 1 | ND | 1 |

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

TABLE 7
683 Marcy Avenue, Brooklyn, New York
Groundwater Analytical Results
Semi-Volatile Organic Compounds

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW3 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | | ND | 1.8 | ND | 2 | ND | 1.8 |
| 1,2,4-Trichlorobenzene | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| 2,4,5-Trichlorophenol | 3 | ND | 1 | ND | 1 | ND | 1 |
| 2,4,6-Trichlorophenol | 3 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichlorobenzene | | ND | 4 | ND | 4 | ND | 4 |
| 1,3-Dichlorobenzene | | ND | 3 | ND | 3 | ND | 3 |
| 1,4-Dichlorobenzene | | ND | 5 | ND | 5 | ND | 5 |
| 2,4-Dichlorophenol | | ND | 1 | ND | 1 | ND | 1 |
| 2,4-Dimethylphenol | | ND | 1 | ND | 1 | ND | 1 |
| 2,4-Dinitrophenol | | ND | 1 | ND | 1 | ND | 1 |
| 2,4-Dinitrotoluene | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2,6-Dinitrotoluene | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Chloronaphthalene | 10 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| 2-Chlorophenol | | ND | 1 | ND | 1 | ND | 1 |
| 2-Methylnaphthalene | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| 2-Methylphenol (o-cresol) | | ND | 1 | ND | 1 | ND | 1 |
| 2-Nitroaniline | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Nitrophenol | | ND | 1 | ND | 1 | ND | 1 |
| 3&4-Methylphenol (m&p-cresol) | | ND | 11 | ND | 11 | ND | 11 |
| 3,3'-Dichlorobenzidine | 5 | ND | 5 | ND | 5 | ND | 5 |
| 3-Nitroaniline | 5 | ND | 5 | ND | 5 | ND | 5 |
| 4,6-Dinitro-2-methylphenol | | ND | 1 | ND | 1 | ND | 1 |
| 4-Bromophenyl phenyl ether | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| 4-Chloro-3-methylphenol | | ND | 1 | ND | 1 | ND | 1 |
| 4-Chloroaniline | 5 | ND | 5 | ND | 5 | ND | 5 |
| 4-Chlorophenyl phenyl ether | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| 4-Nitroaniline | 5 | ND | 5 | ND | 5 | ND | 5 |
| 4-Nitrophenol | | ND | 1 | ND | 1 | ND | 1 |
| Acenaphthene | 20 | ND | 0.057 | ND | 0.063 | ND | 0.056 |
| Acenaphthylene | | ND | 0.057 | ND | 0.063 | ND | 0.056 |
| Acetophenone | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Aniline | | ND | 5 | ND | 5 | ND | 5 |
| Anthracene | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Benzo(a)anthracene | 0.002 | ND | 0.02 | ND | 0.02 | ND | 0.02 |
| Benzidine | 5 | ND | 5 | ND | 5 | ND | 5 |
| Benzo(a)pyrene | | ND | 0.02 | ND | 0.02 | ND | 0.02 |
| Benzo(b)fluoranthene | 0.002 | ND | 0.02 | ND | 0.02 | ND | 0.02 |
| Benzo(g,h,i)perylene | | ND | 3.4 | ND | 3.8 | ND | 3.3 |
| Benzo(k)fluoranthene | 0.002 | ND | 0.02 | ND | 0.02 | ND | 0.02 |
| Benzoic Acid | | ND | 50 | ND | 50 | ND | 50 |
| Bis(2-chloroethoxy)methane | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-chloroethyl)ether | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bis(2-chloroisopropyl)ether | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Bis(2-ethylhexyl)phthalate | 5 | ND | 1.8 | ND | 2 | ND | 1.8 |
| Carbazole | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Chrysene | 0.002 | ND | 0.02 | ND | 0.02 | ND | 0.02 |
| Dibenzo(a,h)anthracene | | ND | 0.02 | ND | 0.02 | ND | 0.02 |
| Dibenzofuran | | ND | 5 | ND | 5 | ND | 5 |
| Diethylphthalate | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Dimethylphthalate | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Di-n-butylphthalate | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Di-n-octylphthalate | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Fluoranthene | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Fluorene | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Hexachlorobenzene | 0.04 | ND | 0.04 | ND | 0.04 | ND | 0.04 |
| Hexachlorobutadiene | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |
| Hexachlorocyclopentadiene | 5 | ND | 5 | ND | 5 | ND | 5 |
| Hexachloroethane | 5 | ND | 2.7 | ND | 3 | ND | 2.7 |
| Indeno(1,2,3-cd)pyrene | 0.002 | ND | 0.02 | ND | 0.02 | ND | 0.02 |
| Isophorone | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Naphthalene | 10 | ND | 5 | ND | 5 | ND | 5 |
| Nitrobenzene | 0.4 | ND | 0.4 | ND | 0.4 | ND | 0.4 |
| N-Nitrosodimethylamine | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| N-Nitrosodi-n-propylamine | | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| N-Nitrosodiphenylamine | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Pentachloronitrobenzene | | ND | 0.11 | ND | 0.13 | ND | 0.11 |
| Pentachlorophenol | | ND | 0.91 | ND | 1 | ND | 0.89 |
| Phenanthrene | 50 | ND | 0.057 | ND | 0.063 | ND | 0.056 |
| Phenol | | ND | 1 | ND | 1 | ND | 1 |
| Pyrene | 50 | ND | 5.6 | ND | 5.6 | ND | 5.6 |
| Pyridine | | ND | 0.57 | ND | 0.63 | ND | 0.56 |

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

TABLE 8
683 Marcy Avenue, Brooklyn, New York
Groundwater Analytical Results
Pesticides/PCBs

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW3 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|
| **PCB-1016** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1221** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1232** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1242** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1248** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1254** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1260** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1262** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **PCB-1268** | **0.09** | ND | 0.05 | ND | 0.05 | ND | 0.05 |
| **4,4-DDD** | **0.3** | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **4,4-DDE** | **0.2** | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **4,4-DDT** | **0.11** | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **a-BHC** | **0.94** | ND* | 0.05 | ND* | 0.025 | ND* | 0.05 |
| **Alachlor** | | ND* | 0.075 | ND* | 0.075 | ND* | 0.075 |
| **Aldrin** | | ND* | 0.002 | ND* | 0.002 | ND* | 0.002 |
| **b-BHC** | **0.04** | ND* | 0.005 | ND* | 0.005 | ND* | 0.005 |
| **Chlordane** | **0.05** | ND* | 0.3 | ND* | 0.3 | ND* | 0.3 |
| **d-BHC** | **0.04** | ND* | 0.025 | ND* | 0.025 | ND* | 0.025 |
| **Dieldrin** | **0.004** | ND* | 0.002 | ND* | 0.004 | ND* | 0.002 |
| **Endosulfan I** | | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **Endosulfan II** | | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **Endosulfan Sulfate** | | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **Endrin** | | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **Endrin aldehyde** | **5** | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **Endrin ketone** | | ND* | 0.05 | ND* | 0.05 | ND* | 0.05 |
| **gamma-BHC** | **0.05** | ND* | 0.025 | ND* | 0.025 | ND* | 0.025 |
| **Heptachlor** | **0.04** | ND* | 0.025 | ND* | 0.025 | ND* | 0.025 |
| **Heptachlor epoxide** | **0.03** | ND* | 0.025 | ND* | 0.025 | ND* | 0.025 |
| **Methoxychlor** | **35** | ND* | 0.1 | ND* | 0.1 | ND* | 0.1 |
| **Toxaphene** | | 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
683 Marcy Avenue Brooklyn, New York
Groundwater Analytical Results
TAL Metals

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW3 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL |
| Aluminum | NS | 31,400 | 10 | 134,000 | 100 | 36,300 | 100 |
| Antimony | 3 | BRL | 3 | BRL | 3 | BRL | 3 |
| Arsenic | 25 | 11 | 4 | 77 | 4 | 17 | 4 |
| Barium | 1000 | 655 | 2 | 1,740 | 2 | 741 | 2 |
| Beryllium | 3 | 2 | 1 | 9 | 1 | 3 | 1 |
| Cadmium | 5 | BRL | 1 | 4 | 1 | BRL | 1 |
| Calcium | NS | 68,600 | 10 | 88,100 | 10 | 72,600 | 10 |
| Chromium | 50 | 210 | 1 | 1,240 | 1 | 322 | 1 |
| Cobalt | NS | 48 | 2 | 167 | 2 | 58 | 2 |
| Copper | 200 | 134 | 5 | 718 | 5 | 169 | 5 |
| Iron | 500 | 97,600 | 10 | 568,000 | 100 | 124,000 | 10 |
| Lead | 25 | 46 | 2 | 283 | 2 | 50 | 2 |
| Magnesium | 35000 | 50,300 | 10 | 101,000 | 100 | 53,700 | 10 |
| Manganese | 300 | 5,260 | 10 | 6,890 | 10 | 6,690 | 10 |
| Mercury | 0.7 | BRL | 0.2 | BRL | 0.2 | BRL | 0.2 |
| Nickel | 100 | 181 | 1 | 572 | 1 | 239 | 1 |
| Potassium | NS | 13,100 | 100 | 33,800 | 100 | 14,000 | 100 |
| Selenium | 10 | BRL | 10 | BRL | 10 | BRL | 10 |
| Silver | 50 | BRL | 1 | BRL | 1 | BRL | 1 |
| Sodium | 2000 | 76,600 | 1000 | 83,800 | 1000 | 82,100 | 1000 |
| Thallium | 0.5 | BRL | 0.5 | BRL | 0.5 | BRL | 0.5 |
| Vanadium | NS | 93 | 2 | 434 | 2 | 110 | 2 |
| Zinc | 2000 | 153 | 2 | 1,380 | 2 | 191 | 2 |

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

Table 10
683 Marcy Avenue, Brooklyn, New York
Groundwater Analytical Results
TAL Filtered Metals

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW3 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|
| Silver | 50 | BRL | 1 | BRL | 1 | BRL | 1 |
| Aluminum | NS | **540** | 10 | **1,510** | 10 | **1,420** | 10 |
| Arsenic | 25 | BRL | 4 | BRL | 4 | BRL | 4 |
| Barium | 1000 | **138** | 2 | **118** | 2 | **132** | 2 |
| Beryllium | 3 | BRL | 1 | BRL | 1 | BRL | 1 |
| Calcium | NS | **62,800** | 10 | **63,100** | 10 | **64,100** | 10 |
| Cadmium | 5 | BRL | 1 | BRL | 1 | BRL | 1 |
| Cobalt | NS | **9** | 1 | **14** | 1 | **9** | 1 |
| Chromium | 50 | **1** | 1 | **12** | 1 | **9** | 1 |
| Copper | 200 | BRL | 5 | **7** | 5 | **6** | 5 |
| Iron | 500 | **740** | 11 | **4,480** | 11 | **3,030** | 11 |
| Mercury | 0.7 | BRL | 0.2 | BRL | 0.2 | BRL | 0.2 |
| Potassium | NS | **5,000** | 100 | **5,500** | 100 | **4,900** | 100 |
| Magnesium | 35000 | **37,200** | 10 | **31,800** | 10 | **38,500** | 10 |
| Manganese | 300 | **2,260** | 11 | **1,070** | 1 | **2,150** | 11 |
| Sodium | 2000 | **75,700** | 1100 | **83,900** | 1100 | **72,700** | 1100 |
| Nickel | 100 | **36** | 1 | **36** | 1 | **41** | 1 |
| Lead | 25 | BRL | 2 | **5** | 2 | BRL | 2 |
| Antimony | 3 | BRL | 3 | BRL | 3 | BRL | 3 |
| Selenium | 10 | BRL | 10 | BRL | 10 | BRL | 10 |
| Thallium | 0.5 | BRL | 0.5 | BRL | 0.5 | BRL | 0.5 |
| Vanadium | NS | BRL | 2 | **3** | 2 | **2** | 2 |
| Zinc | 2000 | **4** | 2 | **18** | 2 | **10** | 2 |

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

TABLE 11
683 Marcy Avenue, Brooklyn, New York
Soil Gas - Volatile Organic Compounds

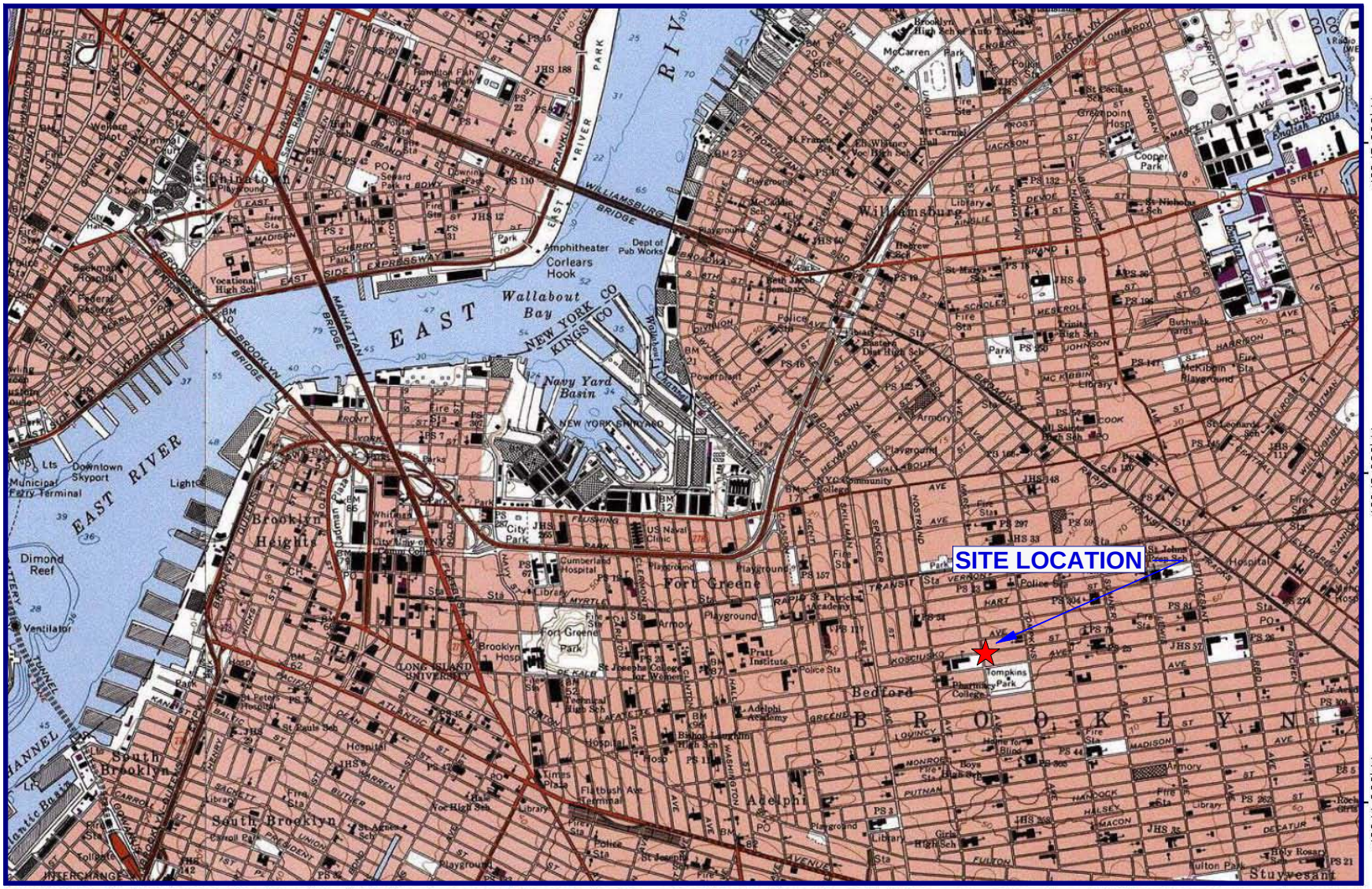
| COMPOUNDS | NYSDOH Maximum Sub Slab Value ($\mu g/m^3$) [a] | NYSDOH Soil Outdoor Background Levels ($\mu g/m^3$) [b] | SG-1 (µg/m3) | | SG-2 (µg/m3) | | SG-3 (µg/m3) | | SG-4 (µg/m3) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,1,1,2-Tetrachloroethane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,1-Trichloroethane | 100 | <2.0 - 2.8 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,2,2-Tetrachloroethane | | <1.5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,2-Trichloroethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trichlorobenzene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trimethylbenzene | | <1.0 | ND | 1 | ND | 1 | **1.08** | 1 | ND | 1 |
| 1,2-Dibromoethane | | <1.5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichlorobenzene | | <2.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichloroethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichlorotetrafluoroethane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3,5-Trimethylbenzene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3-Butadiene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3-Dichlorobenzene | | <2.0 | **10.4** | 1 | **24.1** | 1 | **14.4** | 1 | **17.8** | 1 |
| 1,4-Dichlorobenzene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,4-Dioxane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 2-Hexanone | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 4-Ethyltoluene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 4-Isopropyltoluene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 4-Methyl-2-pentanone | | | **1.56** | 1 | **3.36** | 1 | **3.56** | 1 | **1.72** | 1 |
| Acetone | | NA | **52.9** | 1 | **74.5** | 1 | **62** | 1 | **48.4** | 1 |
| Acrylonitrile | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Benzene | | <1.6 - 4.7 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Benzyl Chloride | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromodichloromethane | | <5.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromoform | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromomethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Carbon Disulfide | | NA | **1.28** | 1 | ND | 1 | ND | 1 | **1.09** | 1 |
| Carbon Tetrachloride | 5 | <3.1 | **0.503** | 0.25 | ND | 0.25 | ND | 0.25 | **0.314** | 0.25 |
| Chlorobenzene | | <2.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloroethane | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloroform | | <2.4 | **1.27** | 1 | **1.37** | 1 | **4.15** | 1 | ND | 1 |
| Chloromethane | | <1.0 - 1.4 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| cis-1,2-Dichloroethene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| cis-1,3-Dichloropropene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Cyclohexane | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Dibromochloromethane | | <5.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Dichlorodifluromethane | | NA | **2.72** | 1 | **2.72** | 1 | **2.32** | 1 | **2.03** | 1 |
| Ethanol | | | **31.1** | 1 | **55.2** | 1 | **40.7** | 1 | **41** | 1 |
| Ethyl Acetate | | NA | **2.05** | 1 | **3.24** | 1 | **2.41** | 1 | **2.56** | 1 |
| Ethylbenzene | | <4.3 | ND | 1 | ND | 1 | **1.82** | 1 | ND | 1 |
| Heptane | | NA | ND | 1 | ND | 1 | **3.56** | 1 | ND | 1 |
| Hexachlorobutadiene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Hexane | | <1.5 | **1.37** | 1 | ND | 1 | ND | 1 | ND | 1 |
| Isopropylalcohol | | NA | **3.76** | 1 | **7.62** | 1 | **5.8** | 1 | **6.07** | 1 |
| Isopropylbenzene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Xylene (m&p) | | <4.3 | **1.6** | 1 | **1.95** | 1 | **4.86** | 1 | **2.6** | 1 |
| Methyl Ethyl Ketone | | | **2.62** | 1 | **3.09** | 1 | **2.48** | 1 | **3.6** | 1 |
| MTBE | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Methylene Chloride | | <3.4 | **4.51** | 1 | **1.08** | 1 | ND | 1 | **1.25** | 1 |
| n-Butylbenzene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Xylene (o) | | <4.3 | ND | 1 | ND | 1 | **2.82** | 1 | **1.04** | 1 |
| Propylene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| sec-Butylbenzene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Styrene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Tetrachloroethene | 100 | | **1.96** | 0.25 | **1.29** | 0.25 | **7.86** | 0.25 | **1.29** | 0.25 |
| Tetrahydrofuran | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Toluene | | 1.0 - 6.1 | **2.52** | 1 | **2.9** | 1 | **4.59** | 1 | **2.45** | 1 |
| trans-1,2-Dichloroethene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| trans-1,3-Dichloropropene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Trichloroethene | 5 | <1.7 | **0.376** | 0.25 | ND | 0.25 | ND | 0.25 | ND | 0.25 |
| Trichlorofluoromethane | | NA | **3.14** | 1 | **3.42** | 1 | **3.42** | 1 | **2.36** | 1 |
| Trichlorotrifluoroethane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Vinyl Chloride | | <1.0 | 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, monitoring.

Table 12
683 Marcy Avenue
Brooklyn, NY
Well Survey Data

| Well No. | Survey Reading | Casing Elevation | DTW 3/1/2012 | DTP | PT | GW ELV 3/1/2012 |
|---|---|---|---|---|---|---|
| MW1 | 3.19 | 96.81 | 45.02 | - | - | 51.79 |
| MW3 | 3.29 | 96.71 | 44.99 | - | - | 51.72 |

# ***FIGURES***




USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

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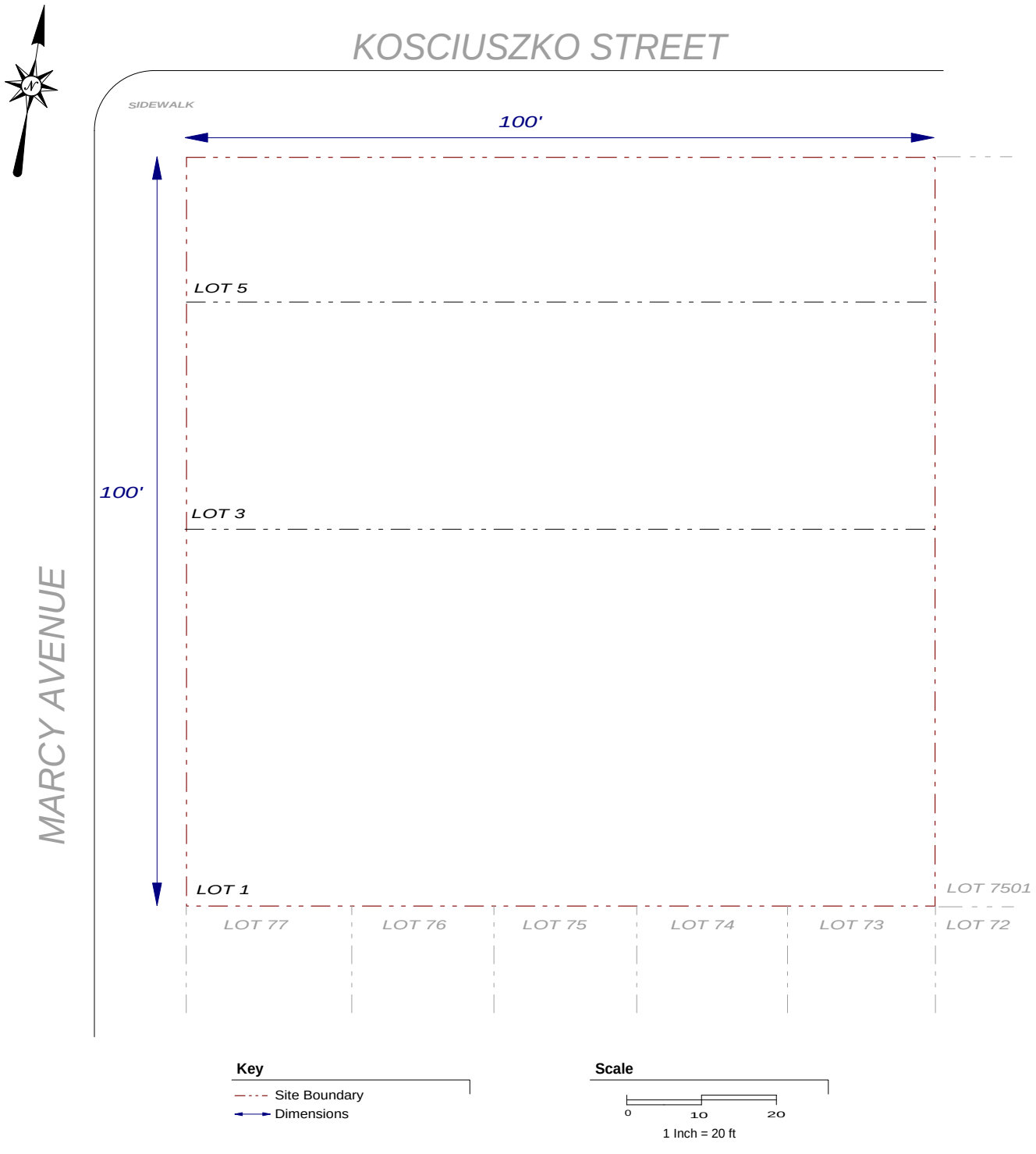
Phone 631.504.6000
Fax 631.924.2780

683 MARCY AVENUE
BROOKLYN, NY

**FIGURE 1** SITE LOCATION MAP

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# 683-689 MARCY AVENUE
BROOKLYN, NY

**FIGURE 2** SITE BOUNDARY MAP

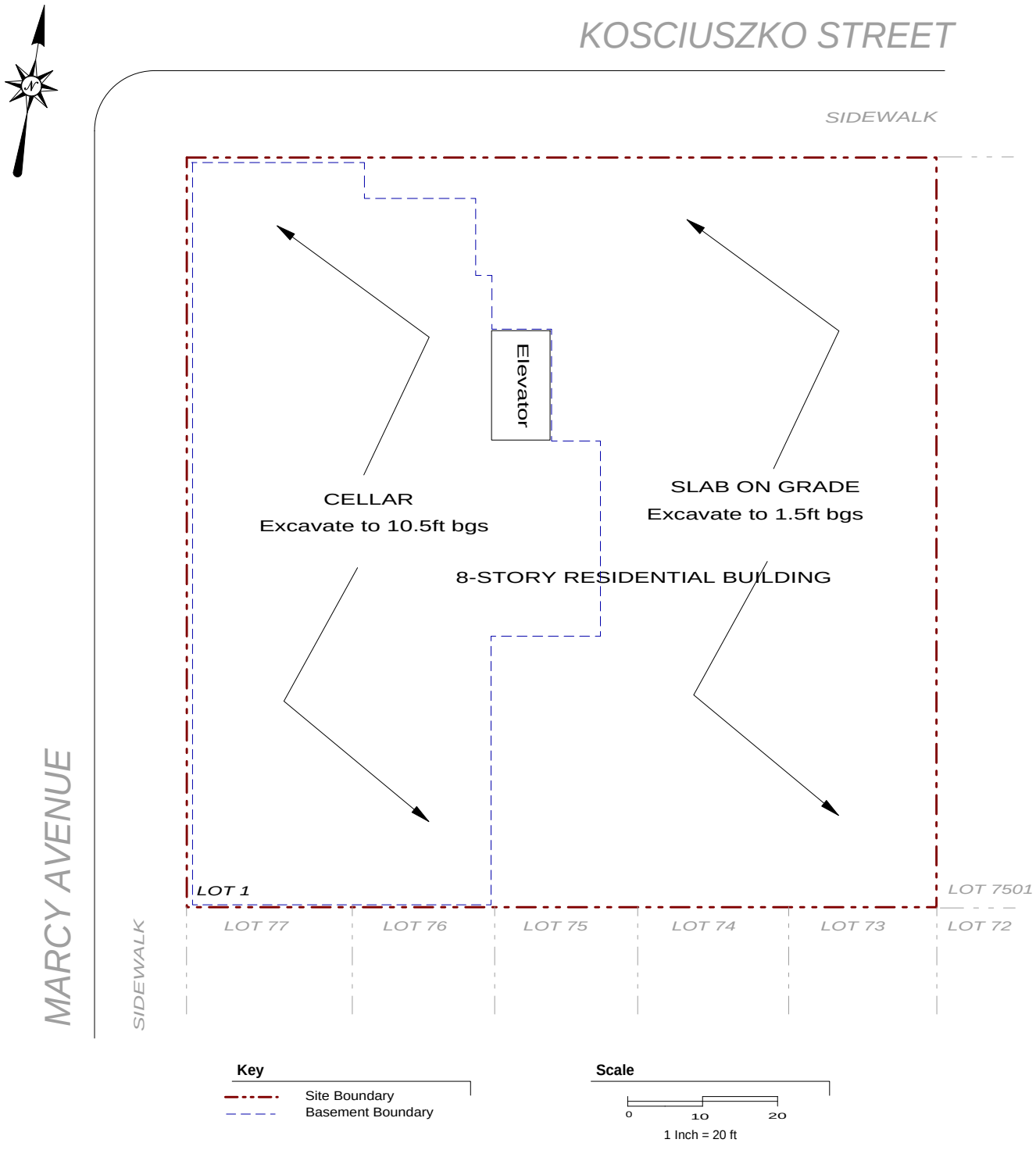


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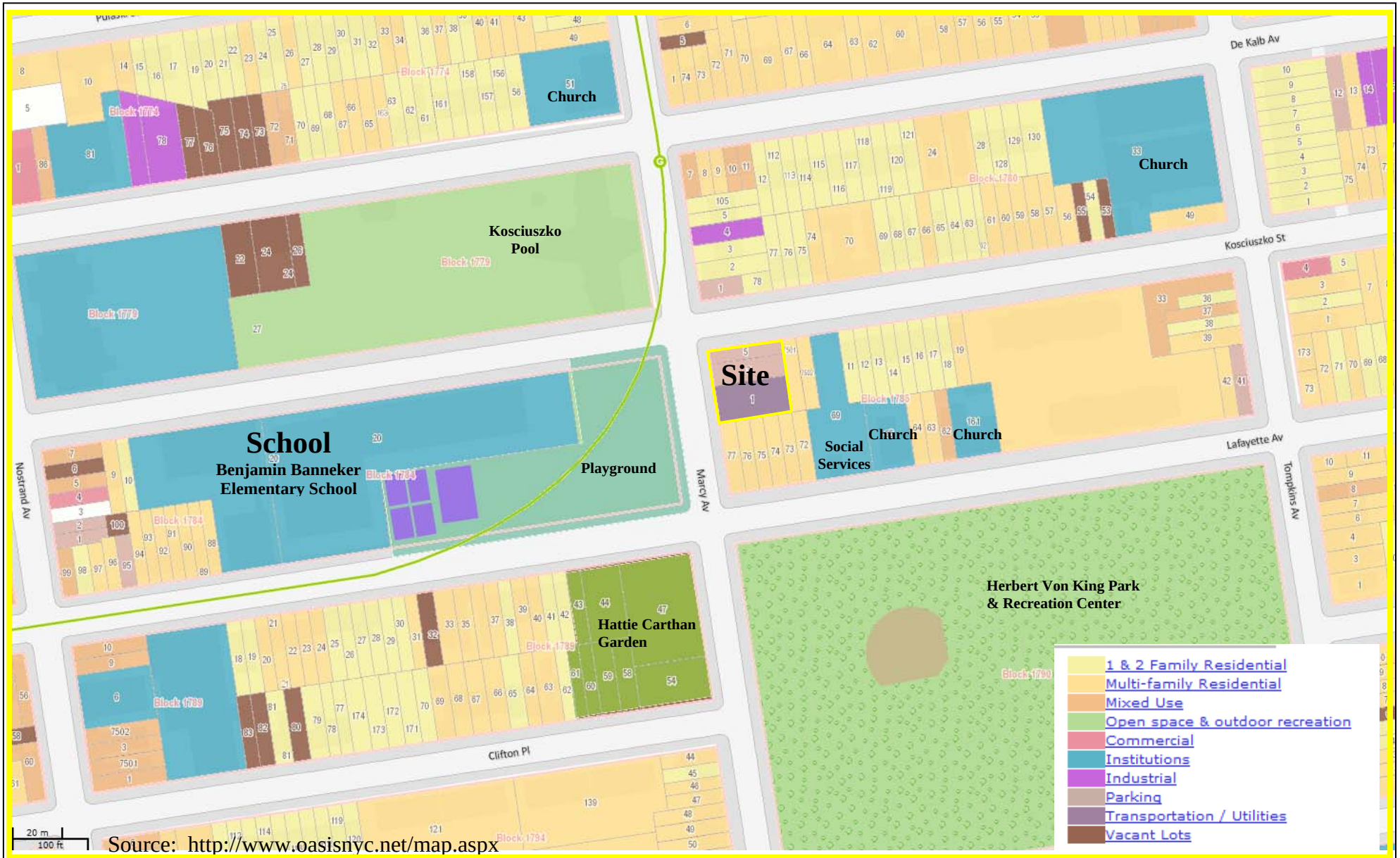
**FIGURE 3** REDEVELOPMENT PLAN




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

# FIGURE 4
## SURROUNDING LAND USE MAP

683 MARCY AVENUE
BROOKLYN, NY 11216

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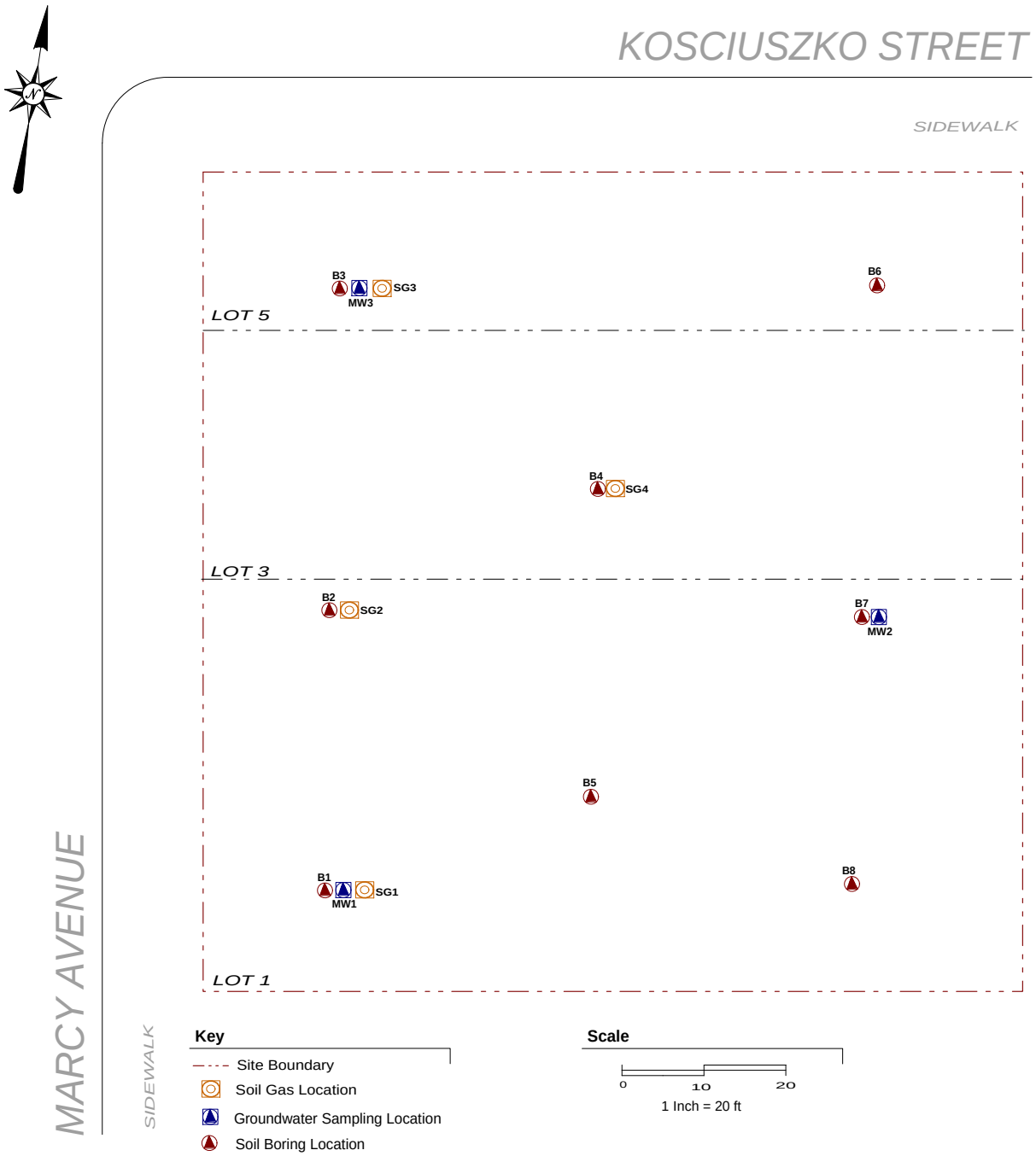


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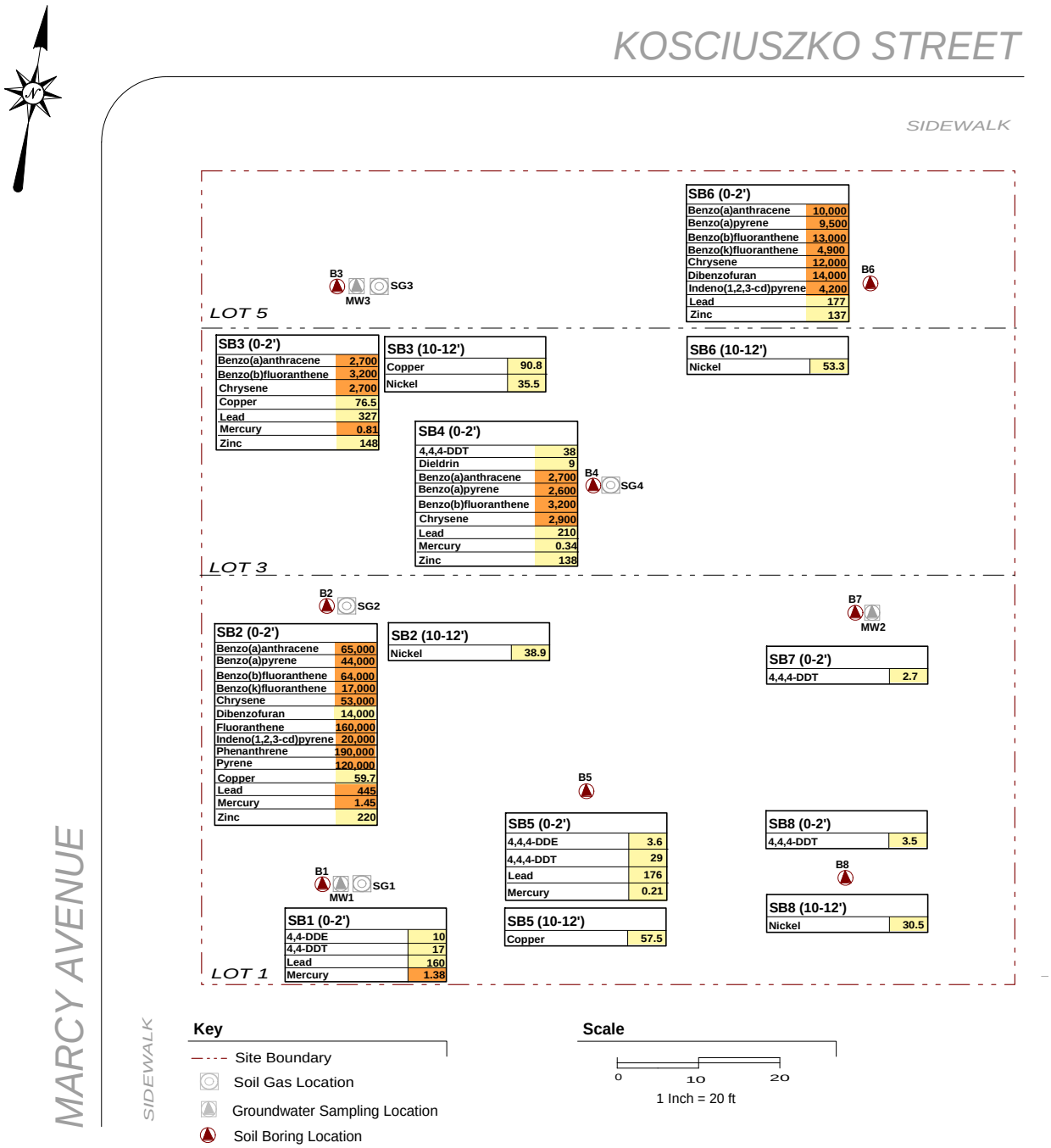
BROOKLYN, NY

**FIGURE 5** SITE PLAN

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BROOKLYN, NY

**FIGURE 6** SOIL EXCEEDENCES MAP

KOSCIUSZKO STREET

SIDEWALK

MW-3

| VOCs | |
|---|---|
| n-Propylbenzene | 10 |
| **Dissolved Metals** | |
| Iron | 4,480 |
| Manganese | 1,070 |
| Sodium | 83,900 |

B3 MW3 SG3

B6

LOT 5

B4 SG4

LOT 3

B2 SG2

B7 MW2

MW-1

| VOCs | |
|---|---|
| 1,2,4-Trimethylbenzene | 140 |
| 1,3,5-Trimethylbenzene | 50 |
| Isopropylbenzene | 13 |
| n-Propylbenzene | 30 |
| sec-Propylbenzene | 5 |
| **Dissolved Metals** | |
| Iron | 740 |
| Magnesium | 37,200 |
| Manganese | 2,260 |
| Sodium | 75,700 |

B5

B8

B1 MW1 SG1

LOT 1

MARCY AVENUE

SIDEWALK

**Key**

- Site Boundary
- Soil Gas Location
- Groundwater Sampling Location
- Soil Boring Location

**Scale**

0 10 20

1 Inch = 20 ft

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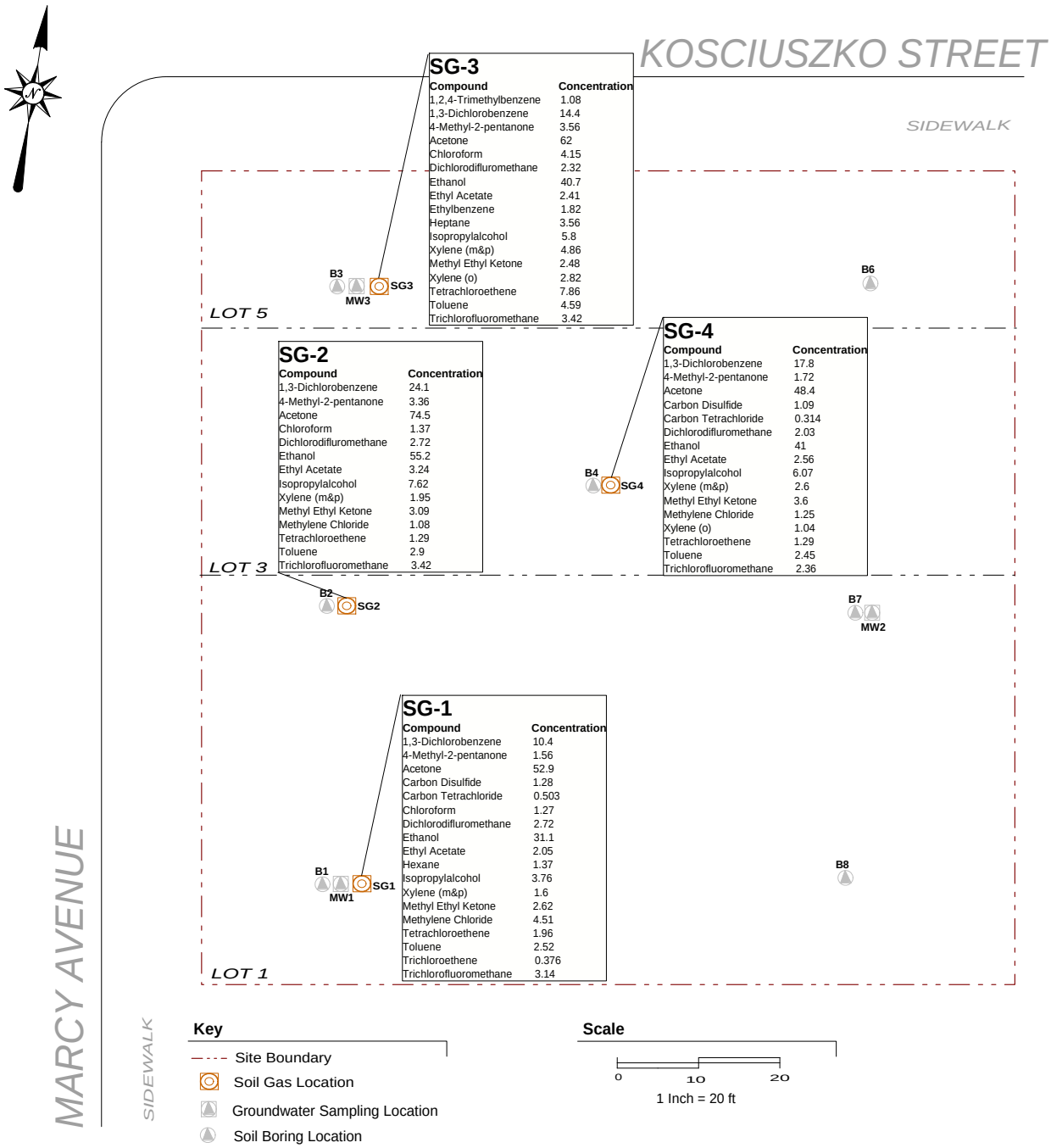
683-689 MARCY AVENUE
BROOKLYN, NY

**FIGURE 7** GROUNDWATER EXCEEDENCES

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683-689 MARCY AVENUE
BROOKLYN, NY

**FIGURE 8** SOIL GAS DETECTIONS

# ***APPENDIX A***
# ***PHASE I REPORT***

# ***APPENDIX B***
# ***SOIL BORING LOGS***

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B1 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed on the southwest corner of the property; 23ft from Marcy Avenue | | | Depth to Water (ft. from grade.) | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | | Date / DTW | Ground Elevation |
| | | | Groundwater depth | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 15 feet | Field Techician S.Babyatsky | | | |

| B1 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | SAMPLES Blow per 6 in. | SAMPLES PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 to 5 | 14 | | - | 7" - Brown coarse grained silty sands<br>2" - Crushed brick.<br>5" - Brown silty sand with brick<br><br>* *Retained soil sample B1(0-2)* |
| | 5 to 10 | 17 | | - | 17" - Brown coarse grained sand with gravel and intermittent organic matter (wood)<br><br>* *Retained soil sample B1(8-10)* |
| | 10 to 15 | 27 | | - | 8" - Light Brown coarse grained sands<br>10" - Dark Brown fine/medium grained silty sands<br>9" - Tan/Light Brown medium/coarse grained sands and stone<br><br>*Retained soil sample B1(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B2 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed on the northwestern portion of the property; 16ft from Marcy Avenue and 49ft from Kosciuszko | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 15 feet | Field Techician S.Babyatsky | | | |

| B2 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 to 5 | 14 | | - | 5" - Black silty sands with gravel. Damp.<br>9" - Dark Brown fine grained silty sands. Damp.<br>** Retained soil sample B2(0-2)* |
| | 5 to 10 | 14 | | - | 12" - Dark Brown fine grained silty sands<br>3" - Brown medium grained silty sands; trace gravel and brick<br>** Retained soil sample B2(5-7)* |
| | 10 to 15 | 26 | | - | 16" - Brown/Red coarse grained sands and gravel<br>10" - Brown medium/coarse grained sands and stone<br>** Retained soil sample B2(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B3 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed in the northwest corner of the property; 5ft from property line on Kosciuszko Street. | | | Depth to Water (ft. from grade.) | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | | Date / DTW | Ground Elevation |
| | | | Groundwater depth | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 14 feet | Field Techician S.Babyatsky | | | |

| B3 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | SAMPLES Blow per 6 in. | SAMPLES PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 to 5 | 17 | | - | 9" - Black medium grained sands with gravel<br>8" - Brown fine/medium grained silty sands<br><br>* *Retained soil sample B3(0-2)* |
| | 5 to 10 | 24 | | - | 16" - Brown fine/medium grained silty sands<br>4" - Stone and Shale<br>4" - Brown fine/medium grained silty sands |
| | 10 to 15 | 17 | | - | 17" - Brown medium/coarse grained sands with gravel and stone<br>Refusal encountered at 14ft<br><br>* *Retained soil sample B3(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

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ENVIRONMENTAL BUSINESS CONSULTANTS

## B4 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed on the southern portion of the property; 50ft from Marcy Avenue and 38ft from Kosciuszko Street. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 15 feet | Field Techician S.Babyatsky | | | |

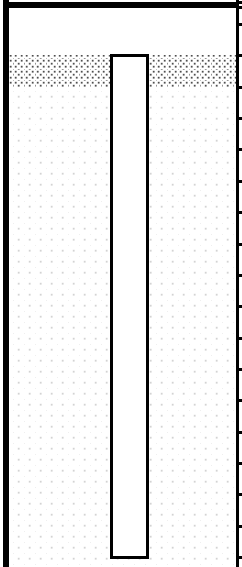
| B4 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 to 5 | 38 | | - | 14" - Brown fine/medium grained sands and silts<br>24" - Dark Brown/Red medium grained sands and silts<br>** Retained soil sample B4(0-2)* |
| | 5 to 10 | 28 | | - | 28" - Brown fine/medium grained sands with silt |
| | 10 to 15 | 25 | | - | 25" - Brown medium/coarse grained sands with gravel and stone<br>** Retained soil sample B4(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B5 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed on the southern portion of the property; 55ft from eastern boundary and 25ft from southern boundary. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 15 feet | Field Techician S.Babyatsky | | | |

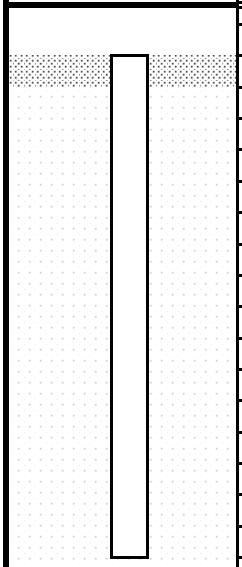
| B5 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | SAMPLES Blow per 6 in. | SAMPLES PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
|  | 0 to 5 | 22 | | - | 22" - Brown fine/medium grained silty sands<br>* *Retained soil sample B5(0-2)* |
| | 5 to 10 | 17 | | - | 12" - Brown fine/medium grained silty sand. Damp.<br>5" - Brown fine/medium grained silty sand. Saturated. |
| | 10 to 15 | 10 | | - | 10" - Brown medium grained silty sands and stone<br>* *Retained soil sample B5(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B6 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed in the northeast corner of the property; 15ft from eastern boundary and 15ft from Kosciuszko Street. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 15 feet | Field Techician S.Babyatsky | | | |

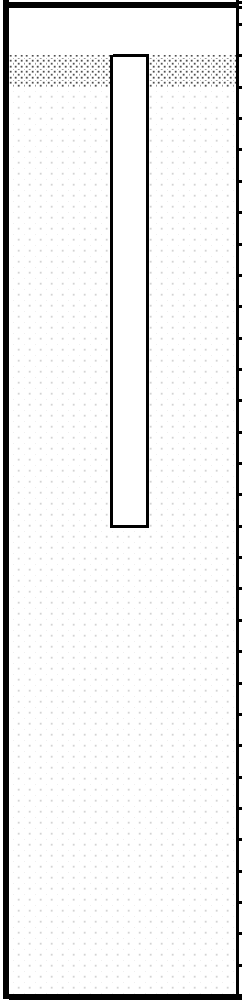
| B6 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
|  | 0 to 5 | 28 | | - | 14" - Brown fine/medium grained silty sands. Damp.<br>12" - Black fine/medium grained silty sands. Damp.<br>2" - Brown medium grained silty sands. Damp.<br>** Retained soil sample B6(0-2) and Duplicate Sample* |
| | 5 to 10 | 34 | | - | 34" - Brown medium grained silty sands |
| | 10 to 15 | 18 | | - | 18" - Brown medium/coarse grained sands and stone<br>** Retained soil sample B6(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B7 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed on the southern portion of the property; 80ft from Marcy Avenue and 53ft from Kosciuszko Street. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 15 feet | Field Techician S.Babyatsky | | | |

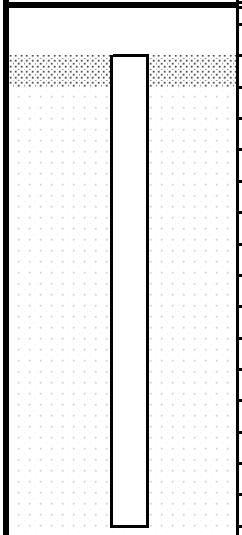
| B7 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
|  | 0 to 5 | 13 | | - | 13" - Brown mediumg grained sands with silt<br>* *Retained soil sample B7(0-2)* |
| | 5 to 10 | 28 | | - | 10" - Brown coarse grained sand and stone<br>18" - Brown fine/medium grained sands and silts |
| | 10 to 15 | 20 | | - | 20" - Brown medium grained sands with silt and gravel<br>* *Retained soil sample B7(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B8 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Completed in the southeastern corner of the property; 15ft from southern boundary and 20ft from eastern | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: TAG1214 | Address: 683 Marcy Avenue, Brooklyn, NY | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions, Inc. | Method: Dual Tube Geoprobe 6610 | | | Well Specifications |
| Date Started: 12/28/2012 | Date Completed: 12/28/2012 | | | |
| Completion Depth: 15 feet | Field Techician S.Babyatsky | | | |

| B8 (NTS) | DEPTH (ft below grade) | SAMPLES Recovery (in.) | SAMPLES Blow per 6 in. | SAMPLES PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
|  | 0 to 5 | 21 | | - | 21" - Brown fine/medium grained sands and silts. Damp.<br>* *Retained soil sample B8(0-2)* |
| | 5 to 10 | 14 | | - | 14" - Brown fine/medium grained sands and silts. Damp. |
| | 10 to 15 | 12 | | - | 5" - Brown fine/medium grained sands and silts. Damp.<br>7" - Tan medium/coarse grained sands and silts. Damp.<br>* *Retained soil sample B8(10-12)* |
| | | | | | |
| | | | | | |
| | | | | | |

# ***APPENDIX C***
# ***GROUNDWATER SAMPLING LOGS***

# GROUNDWATER PURGE / SAMPLE LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW1 Date: 1/17/2013

Well Depth (from TOC): 55 Equipment: Check Valve

Static Water Level (from TOC): 45.02

Height of Water in Well: 9.98

Gallons of Water per Well Volume: 0.3992

Flow Rate: 400ml/min.

| Time | Pump Rate | Gal. Removed | pH | Cond. (mS/cm) | Temp. (deg. C) | DO (mg/L) | Comments |
|---|---|---|---|---|---|---|---|
| 0.00 | 400ml/min | 0 | | | | | turbid |
| 5.00 | 400ml/min | 0.55 | | | | | turbid |
| 10.00 | 400ml/min | 1.1 | | | | | slightly turbid |
| 15.00 | 400ml/min | 1.65 | | | | | clear |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Note 400 ml = 0.11 gallons

# GROUNDWATER PURGE / SAMPLE LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW3 Date: 1/17/2013

Well Depth (from TOC): 55 Equipment: Check Valve

Static Water Level (from TOC): 44.99

Height of Water in Well: 10.01

Gallons of Water per Well Volume: 0.4004

Flow Rate: 400ml/min.

| Time | Pump Rate | Gal. Removed | pH | Cond. (mS/cm) | Temp. (deg. C) | DO (mg/L) | Comments |
|---|---|---|---|---|---|---|---|
| 0.00 | 400ml/min | 0 | | | | | turbid |
| 5.00 | 400ml/min | 0.55 | | | | | turbid |
| 10.00 | 400ml/min | 1.1 | | | | | slightly turbid |
| 15.00 | 400ml/min | 1.65 | | | | | clear |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Note 400 ml = 0.11 gallons

# ***APPENDIX D***
# ***SOIL GAS SAMPLING LOGS***

# CHAIN OF CUSTODY RECORD AIR ANALYSES

Updated 1/18 — Pg 1 of 1

**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) 645-1102**

**Data Delivery:**
☐ Fax #:
☒ Email: KBrussee@EBCINC.NY.com

| | | | | | |
|---|---|---|---|---|---|
| Report to: | EBC | Invoice to: | EBC | Project Name: | 683 Marcy Ave |
| Address: | 1808 Middle Country Rd. Ridge, NY 11961 | Address: | | Location: | Brooklyn, NY |
| Project Mgr: | Kevin Brussee | P.O. # | | State: | |
| Phone # | 631.504.6000 | Quote # | | Sampled by: | KW |

| 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 | | | | Is Canister Returned Unused? Y/N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LAB USE ONLY | | | | | | | | | | | MATRIX | | | | ANALYSES | | | | | |
| 21457 | SG1 | 483 | 6 | 30 | -1 | 03414 | 40 | 1020 | 1216 | 1/17 | 30 | 5 | | X | | | | X | | | | N |
| 21458 | SG2 | 13639 | 6 | 30 | -3 | 05350 | 40 | 1005 | 1215 | 1/17 | 30 | 5 | | X | | | | X | | | | N |
| 21459 | SG3 | 13647 | 6 | 30 | 0 | 02865 | 40 | 1015 | 1201 | 1/17 | 29 | 2 | | X | | | | X | | | | N |
| 21460 | SG4 | 218 | 6 | 30 | 0 | 02871 | 40 | 100 | 1203 | 1/17 | 29 | 3 | | X | | | | X | | | | N |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 1/18 | 9:30 |
| | | 1-18-13 | 1549 |

**Criteria Requested:** **Deliverable:**
RCP ☐
MCP ☐
State where samples collected: NY

**Data Format:**
Excel ☒ Equis ☐
PDF ☒ Other: ☐
GISKey ☐

**SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:**

*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: 1/18

# ***APPENDIX E***
# ***LABORATORY REPORTS IN DIGITAL FORMAT***

PHOENIX
Environmental Laboratories, Inc.

**Wednesday, January 09, 2013**

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

**Project ID: 683 MARCY AVE.**
**Sample ID#s: BD14399 - BD14410**

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

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

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

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

**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**

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

January 09, 2013

SDG I.D.: GBD14399

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BD14399 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14400 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14401 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14402 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14403 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14404 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14405 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14406 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14407 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14408 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14409 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14410 - 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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14399

Project ID: 683 MARCY AVE.
Client ID: B1 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 11200 | 54 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 4.2 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 111 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.50 | 0.29 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 4340 | 5.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.36 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 5.48 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 22.2 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 42.0 | 0.36 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 15500 | 54 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 1.38 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 741 | 5.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 2110 | 5.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 278 | 3.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 526 | 5.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 12.3 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 160 | 3.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.6 | 3.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 31.1 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 101 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 89 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B1 0-2

Phoenix I.D.: BD14399

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 75 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 66 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 67 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | 10 | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | 17 | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.6 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | 56 | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 7.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 7.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 7.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 7.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 7.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 36 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 36 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 71 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 61 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B1 0-2

Phoenix I.D.: BD14399

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 105 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 87 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 590 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 590 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 590 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 590 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B1 0-2

Phoenix I.D.: BD14399

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | 630 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 450 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | 650 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 880 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | 430 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | 330 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | 690 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 1500 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 380 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | 1100 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 1300 | 260 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 370 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 108 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 85 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 92 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 79 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 92 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B1 0-2

Phoenix I.D.: BD14399

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 95 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14400

Project ID: 683 MARCY AVE.
Client ID: B1 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 4720 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 1.1 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 33.0 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.39 | 0.30 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 10600 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.37 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 5.45 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 15.4 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 15.0 | 0.37 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 10700 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.07 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 1450 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 2690 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 352 | 3.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 180 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 23.4 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 7.64 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.7 | 3.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 21.4 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 26.1 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 92 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B1 10-12

Phoenix I.D.: BD14400

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 75 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 73 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 68 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 59 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B1 10-12

Phoenix I.D.: BD14400

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 89 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 98 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B1 10-12

Phoenix I.D.: BD14400

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 430 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 540 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 89 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 82 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 83 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 70 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 84 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B1 10-12

Phoenix I.D.: BD14400

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 91 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14401

Project ID: 683 MARCY AVE.
Client ID: B2 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 9590 | 55 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 6.0 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 187 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.47 | 0.29 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 4510 | 5.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | 0.52 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 5.91 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 25.3 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 59.7 | 0.36 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 17000 | 55 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 1.45 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 890 | 5.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 2190 | 5.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 267 | 3.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 126 | 5.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 15.6 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 445 | 3.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.6 | 3.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 28.6 | 0.36 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 220 | 3.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 87 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B2 0-2

Phoenix I.D.: BD14401

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 76 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 62 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 23 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 23 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 23 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND* | 36 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND* | 36 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND* | 36 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND* | 110 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND* | 36 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND* | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND* | 36 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND* | 73 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND* | 73 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND* | 73 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND* | 73 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND* | 73 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND* | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND* | 23 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND* | 36 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND* | 360 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND* | 360 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 52 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 73 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B2 0-2

Phoenix I.D.: BD14401

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 29 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 29 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 29 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 29 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | 100 | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.7 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 87 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 102 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 97 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 5900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | 4700 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 5900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 5900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 11000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 5900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 11000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B2 0-2

Phoenix I.D.: BD14401

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 18000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 11000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | 43000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | 65000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 4500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | 44000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 64000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | 19000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | 17000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 11000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | 39000 | 5600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | 53000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | 14000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 160000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | 27000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 20000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | 7600 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | 190000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 120000 | 2600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 3700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B2 0-2

Phoenix I.D.: BD14401

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | *Diluted Out | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level

## Comments:

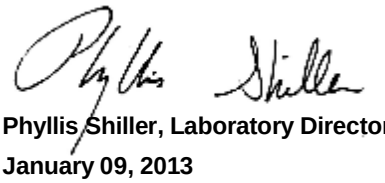
This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

* 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.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

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

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

**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14402

Project ID: 683 MARCY AVE.
Client ID: B2 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 9160 | 53 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 3.0 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 52.6 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.65 | 0.28 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 3440 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 9.45 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 29.0 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 53.0 | 0.35 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 19900 | 53 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.07 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 2020 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 4510 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 474 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 466 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 38.9 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 9.08 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.5 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 35.2 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 48.6 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 94 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B2 10-12

Phoenix I.D.: BD14402

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 73 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 71 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 10 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 71 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 60 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B2 10-12

Phoenix I.D.: BD14402

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 91 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B2 10-12

Phoenix I.D.: BD14402

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 420 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 530 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 92 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 92 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 78 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 85 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B2 10-12

Phoenix I.D.: BD14402

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 102 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14403

Project ID: 683 MARCY AVE.
Client ID: B3 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.38 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 6290 | 57 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 4.0 | 0.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 123 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.39 | 0.31 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 23000 | 57 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | 0.41 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 3.80 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 13.7 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 76.5 | 0.38 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 15900 | 57 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 0.81 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 791 | 5.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 11600 | 57 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 233 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 116 | 5.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 13.7 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 327 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.8 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 27.8 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 148 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 91 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B3 0-2

Phoenix I.D.: BD14403

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 76 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 22 | ug/Kg | 01/07/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 22 | ug/Kg | 01/07/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 22 | ug/Kg | 01/07/13 | MH | SW8081 | |
| a-BHC | ND* | 35 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Alachlor | ND* | 35 | ug/Kg | 01/07/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 11 | ug/Kg | 01/07/13 | MH | SW8081 | |
| b-BHC | ND* | 35 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Chlordane | ND* | 110 | ug/Kg | 01/07/13 | MH | SW8081 | |
| d-BHC | ND* | 35 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Dieldrin | ND* | 11 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endosulfan I | ND* | 35 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endosulfan II | ND* | 70 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endosulfan sulfate | ND* | 70 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endrin | ND* | 70 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endrin aldehyde | ND* | 70 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endrin ketone | ND* | 70 | ug/Kg | 01/07/13 | MH | SW8081 | |
| g-BHC | ND* | 11 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Heptachlor | ND* | 22 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Heptachlor epoxide | ND* | 35 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Methoxychlor | ND* | 350 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Toxaphene | ND* | 350 | ug/Kg | 01/07/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 119 | | % | 01/07/13 | MH | 30 - 150 % | |
| % TCMX | 96 | | % | 01/07/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B3 0-2

Phoenix I.D.: BD14403

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 76 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 104 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 91 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 5800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 5800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 5800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 5800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B3 0-2

Phoenix I.D.: BD14403

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | 2700 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 4300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 3200 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 5400 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | 2700 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 5700 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | 4400 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 4400 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
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Phoenix I.D.: BD14403

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | *Diluted Out | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

* 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.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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

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


**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14404

Project ID: 683 MARCY AVE.
Client ID: B3 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 10500 | 52 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 3.7 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 78.0 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.62 | 0.28 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 3530 | 5.2 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 8.74 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 27.4 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 90.8 | 0.35 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 22500 | 52 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.07 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 3140 | 5.2 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 5080 | 52 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 373 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 533 | 5.2 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 35.5 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 11.9 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.5 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 35.9 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 81.4 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 96 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B3 10-12

Phoenix I.D.: BD14404

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 68 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 36 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 40 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 10 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 35 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 36 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B3 10-12

Phoenix I.D.: BD14404

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 105 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 88 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B3 10-12

Phoenix I.D.: BD14404

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 410 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 520 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 91 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 94 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 100 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 84 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 89 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
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Phoenix I.D.: BD14404

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 106 | | % | 01/03/13 | 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.

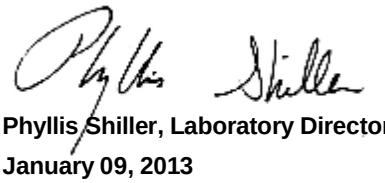
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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



**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14405

Project ID: 683 MARCY AVE.
Client ID: B4 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 7240 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 4.0 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 115 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.35 | 0.30 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 8050 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | 0.44 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 4.86 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 16.5 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 30.2 | 0.37 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 14800 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 0.34 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 758 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 4270 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 265 | 3.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 115 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 13.7 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 210 | 3.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.7 | 3.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 23.5 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 138 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 91 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B4 0-2

Phoenix I.D.: BD14405

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 76 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.2 | ug/Kg | 01/07/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.9 | ug/Kg | 01/07/13 | MH | SW8081 | |
| 4,4' -DDT | 38 | 2.2 | ug/Kg | 01/07/13 | MH | SW8081 | |
| a-BHC | ND | 3.5 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Alachlor | ND | 3.5 | ug/Kg | 01/07/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/07/13 | MH | SW8081 | |
| b-BHC | ND | 3.5 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Chlordane | ND | 11 | ug/Kg | 01/07/13 | MH | SW8081 | |
| d-BHC | ND | 3.5 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Dieldrin | 9.0 | 1.1 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.5 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.9 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.9 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endrin | ND | 6.9 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.9 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.9 | ug/Kg | 01/07/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.5 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Methoxychlor | ND | 35 | ug/Kg | 01/07/13 | MH | SW8081 | |
| Toxaphene | ND | 35 | ug/Kg | 01/07/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | Interference | | % | 01/07/13 | MH | 30 - 150 % | |
| % TCMX | 74 | | % | 01/07/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B4 0-2

Phoenix I.D.: BD14405

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 106 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 73 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 107 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 93 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 2900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 2900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 2900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 5300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 2900 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 5300 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B4 0-2

Phoenix I.D.: BD14405

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 5300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | 2700 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 2200 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | 2600 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 3200 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | 1300 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 5300 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 2700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | 2900 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 5300 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | 3500 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 5000 | 1300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 1800 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 96 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 88 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 70 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 83 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 71 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
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Phoenix I.D.: BD14405

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 88 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

* 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.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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

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


**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14406

Project ID: 683 MARCY AVE.
Client ID: B4 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 13500 | 51 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 2.4 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 68.0 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.64 | 0.27 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 5300 | 5.1 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 14.6 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 52.2 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 34.5 | 0.34 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 27600 | 51 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.08 | 0.08 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 3790 | 51 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 8970 | 51 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 445 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 605 | 5.1 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 128 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 12.9 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.4 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.5 | 0.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 46.3 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 55.9 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 96 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B4 10-12

Phoenix I.D.: BD14406

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 69 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 63 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 64 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 10 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 63 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 56 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B4 10-12

Phoenix I.D.: BD14406

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 26 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.2 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 104 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 89 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 540 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 540 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 540 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 980 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 540 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 980 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B4 10-12

Phoenix I.D.: BD14406

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 980 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 410 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 980 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 510 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 340 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 94 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 93 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 79 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 90 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B4 10-12

Phoenix I.D.: BD14406

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 102 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14407

Project ID: 683 MARCY AVE.
Client ID: B5 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.38 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 6500 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 2.6 | 0.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 58.2 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.33 | 0.30 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 2710 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.38 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 4.21 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 14.0 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 22.4 | 0.38 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 12700 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 0.21 | 0.06 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 805 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 2060 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 205 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 86.9 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 12.2 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 176 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.8 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 20.2 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 71.1 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 90 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B5 0-2

Phoenix I.D.: BD14407

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 72 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 72 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | 3.6 | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | 29 | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | 74 | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND* | 1.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 72 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 63 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B5 0-2

Phoenix I.D.: BD14407

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 28 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.6 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 107 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 86 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 580 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B5 0-2

Phoenix I.D.: BD14407

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 430 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 350 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1100 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 540 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 310 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 300 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 110 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 96 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 98 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 82 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 97 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
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Phoenix I.D.: BD14407

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 103 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

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

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


**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14408

Project ID: 683 MARCY AVE.
Client ID: B5 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 10200 | 50 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 2.2 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 114 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.63 | 0.27 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 3670 | 5.0 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 11.3 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 19.4 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 57.5 | 0.34 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 35100 | 50 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.06 | 0.06 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 3450 | 50 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 5780 | 50 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 697 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 562 | 5.0 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 29.1 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 44.2 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.4 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.3 | 1.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.5 | 0.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 94.8 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 37.6 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 93 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B5 10-12

Phoenix I.D.: BD14408

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 72 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 10 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 69 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 60 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B5 10-12

Phoenix I.D.: BD14408

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.4 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 86 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 97 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B5 10-12

Phoenix I.D.: BD14408

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 430 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 530 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 120 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 100 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 97 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 85 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 93 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B5 10-12

Phoenix I.D.: BD14408

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 110 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14409

Project ID: 683 MARCY AVE.
Client ID: B6 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.33 | 0.33 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 7850 | 49 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 3.3 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 90.3 | 0.33 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.41 | 0.26 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 4950 | 4.9 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | 0.67 | 0.33 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 4.94 | 0.33 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 16.7 | 0.33 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 38.0 | 0.33 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 17400 | 49 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 0.10 | 0.06 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 865 | 4.9 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 2700 | 4.9 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 307 | 3.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 81.0 | 4.9 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 15.0 | 0.33 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 177 | 3.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.3 | 3.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.3 | 1.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.5 | 0.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 28.9 | 0.33 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 137 | 3.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 91 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B6 0-2

Phoenix I.D.: BD14409

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 73 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 33 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 35 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 2.6 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND* | 4.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 35 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 35 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 36 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 30 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B6 0-2

Phoenix I.D.: BD14409

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 106 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 79 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 103 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 95 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B6 0-2

Phoenix I.D.: BD14409

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | 3400 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | 10000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 4300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | 9500 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 13000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | 4100 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | 4900 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 5300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | 12000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 22000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 4200 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | 19000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 19000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 3600 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B6 0-2

Phoenix I.D.: BD14409

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | *Diluted Out | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

* 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.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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

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


**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**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

January 09, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14399
Phoenix ID: BD14410

Project ID: 683 MARCY AVE.
Client ID: B6 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 9050 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 3.6 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 46.0 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.69 | 0.30 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 2890 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.37 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 10.2 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 27.5 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 24.3 | 0.37 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 16200 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.08 | 0.08 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 2610 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 6000 | 56 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 326 | 3.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 497 | 5.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 53.3 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 21.1 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.7 | 3.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 32.8 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 59.0 | 0.37 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 94 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B6 10-12

Phoenix I.D.: BD14410

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 76 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 10 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 73 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 60 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B6 10-12

Phoenix I.D.: BD14410

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.3 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 105 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 90 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B6 10-12

Phoenix I.D.: BD14410

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 420 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 520 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 118 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 100 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 102 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 87 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 96 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B6 10-12

Phoenix I.D.: BD14410

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 109 | | % | 01/03/13 | 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.

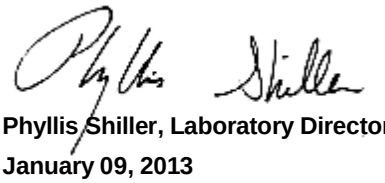
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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



**Phyllis Shiller, Laboratory Director**
**January 09, 2013**
**Reviewed and Released by: Johanna Harrington, Project Manager**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

January 09, 2013

## QA/QC Data

SDG I.D.: GBD14399

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 217552, QC Sample No: BD14394 (BD14399, BD14400, BD14401, BD14402, BD14403, BD14404, BD14405, BD14406, BD14407, BD14408, BD14409, BD14410) | | | | | | | | | | | | | |
| **ICP Metals - Soil** | | | | | | | | | | | | | |
| Aluminum | BRL | 6020 | 6270 | 4.10 | 83.0 | 87.1 | 4.8 | NC | NC | NC | 75 - 125 | 30 | |
| Antimony | BRL | <3.5 | <3.6 | NC | 81.2 | 81.6 | 0.5 | 91.3 | 91.6 | 0.3 | 75 - 125 | 30 | |
| Arsenic | BRL | 1.8 | 2.22 | NC | 102 | 105 | 2.9 | 93.3 | 95.5 | 2.3 | 75 - 125 | 30 | |
| Barium | BRL | 47.4 | 49.4 | 4.10 | 107 | 121 | 12.3 | 103 | 109 | 5.7 | 75 - 125 | 30 | |
| Beryllium | BRL | 0.30 | 0.31 | NC | 108 | 110 | 1.8 | 98.2 | 99.5 | 1.3 | 75 - 125 | 30 | |
| Cadmium | BRL | <0.35 | <0.36 | NC | 105 | 108 | 2.8 | 97.8 | 99.3 | 1.5 | 75 - 125 | 30 | |
| Calcium | BRL | 2310 | 2170 | 6.30 | 103 | 108 | 4.7 | NC | NC | NC | 75 - 125 | 30 | |
| Chromium | BRL | 14.7 | 14.1 | 4.20 | 109 | 111 | 1.8 | 101 | 104 | 2.9 | 75 - 125 | 30 | |
| Cobalt | BRL | 4.17 | 4.52 | 8.10 | 107 | 109 | 1.9 | 98.2 | 100 | 1.8 | 75 - 125 | 30 | |
| Copper | BRL | 17.9 | 21.6 | 18.7 | 110 | 114 | 3.6 | 104 | 107 | 2.8 | 75 - 125 | 30 | |
| Iron | BRL | 11300 | 12800 | 12.4 | 116 | 120 | 3.4 | NC | NC | NC | 75 - 125 | 30 | |
| Lead | BRL | 52.0 | 56.3 | 7.90 | 105 | 111 | 5.6 | 95.9 | 102 | 6.2 | 75 - 125 | 30 | |
| Magnesium | BRL | 1760 | 1750 | 0.60 | 105 | 108 | 2.8 | NC | NC | NC | 75 - 125 | 30 | |
| Manganese | BRL | 216 | 294 | 30.6 | 105 | 112 | 6.5 | 126 | 116 | 8.3 | 75 - 125 | 30 | m,r |
| Nickel | BRL | 10.9 | 11.5 | 5.40 | 105 | 109 | 3.7 | 96.9 | 98.0 | 1.1 | 75 - 125 | 30 | |
| Potassium | BRL | 746 | 777 | 4.10 | 108 | 112 | 3.6 | >130 | >130 | NC | 75 - 125 | 30 | m |
| Selenium | BRL | <1.4 | <1.4 | NC | 102 | 107 | 4.8 | 88.9 | 90.0 | 1.2 | 75 - 125 | 30 | |
| Silver | BRL | <0.35 | <0.36 | NC | 103 | 105 | 1.9 | 96.2 | 98.0 | 1.9 | 75 - 125 | 30 | |
| Sodium | BRL | 74.0 | 78.1 | 5.40 | 109 | 112 | 2.7 | >130 | 124 | NC | 75 - 125 | 30 | m |
| Thallium | BRL | <0.6 | <3.2 | NC | 105 | 108 | 2.8 | 95.4 | 97.3 | 2.0 | 75 - 125 | 30 | |
| Vanadium | BRL | 20.3 | 21.8 | 7.10 | 113 | 117 | 3.5 | 101 | 105 | 3.9 | 75 - 125 | 30 | |
| Zinc | BRL | 49.1 | 47.1 | 4.20 | 108 | 119 | 9.7 | 95.9 | 101 | 5.2 | 75 - 125 | 30 | |
| QA/QC Batch 217598, QC Sample No: BD14394 (BD14399, BD14400, BD14401, BD14402, BD14403, BD14404, BD14405, BD14406, BD14407, BD14408, BD14409, BD14410) | | | | | | | | | | | | | |
| Mercury - Soil | BRL | 0.08 | 0.07 | NC | 91.1 | 96.7 | 6.0 | 103 | 92.8 | 10.4 | 70 - 130 | 30 | |

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

January 09, 2013

## QA/QC Data

SDG I.D.: GBD14399

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 217547, QC Sample No: BD14395 (BD14399, BD14400, BD14401, BD14402, BD14403, BD14404, BD14405, BD14406, BD14407, BD14408) | | | | | | | | | | |
| **Semivolatiles - Soil** | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 90 | 87 | 3.4 | 90 | 89 | 1.1 | 30 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 81 | 78 | 3.8 | 82 | 80 | 2.5 | 30 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 81 | 79 | 2.5 | 82 | 79 | 3.7 | 30 - 130 | 30 | |
| 1,2-Diphenylhydrazine | ND | 94 | 89 | 5.5 | 92 | 86 | 6.7 | 30 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 74 | 72 | 2.7 | 75 | 73 | 2.7 | 30 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 79 | 77 | 2.6 | 80 | 77 | 3.8 | 30 - 130 | 30 | |
| 2,4,5-Trichlorophenol | ND | 97 | 95 | 2.1 | 97 | 97 | 0.0 | 30 - 130 | 30 | |
| 2,4,6-Trichlorophenol | ND | 101 | 99 | 2.0 | 102 | 100 | 2.0 | 30 - 130 | 30 | |
| 2,4-Dichlorophenol | ND | 91 | 88 | 3.4 | 92 | 90 | 2.2 | 30 - 130 | 30 | |
| 2,4-Dimethylphenol | ND | 64 | 58 | 9.8 | 64 | 64 | 0.0 | 30 - 130 | 30 | |
| 2,4-Dinitrophenol | ND | <5 | 59 | NC | 21 | 35 | 50.0 | 30 - 130 | 30 | l,m,r |
| 2,4-Dinitrotoluene | ND | 98 | 93 | 5.2 | 96 | 100 | 4.1 | 30 - 130 | 30 | |
| 2,6-Dinitrotoluene | ND | 94 | 90 | 4.3 | 93 | 96 | 3.2 | 30 - 130 | 30 | |
| 2-Chloronaphthalene | ND | 87 | 85 | 2.3 | 88 | 87 | 1.1 | 30 - 130 | 30 | |
| 2-Chlorophenol | ND | 78 | 76 | 2.6 | 79 | 78 | 1.3 | 30 - 130 | 30 | |
| 2-Methylnaphthalene | ND | 83 | 79 | 4.9 | 84 | 86 | 2.4 | 30 - 130 | 30 | |
| 2-Methylphenol (o-cresol) | ND | 84 | 82 | 2.4 | 87 | 87 | 0.0 | 30 - 130 | 30 | |
| 2-Nitroaniline | ND | 138 | 130 | 6.0 | 129 | 136 | 5.3 | 30 - 130 | 30 | l,m |
| 2-Nitrophenol | ND | 80 | 83 | 3.7 | 84 | 82 | 2.4 | 30 - 130 | 30 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 90 | 86 | 4.5 | 89 | 88 | 1.1 | 30 - 130 | 30 | |
| 3,3'-Dichlorobenzidine | ND | 115 | 104 | 10.0 | 96 | 105 | 9.0 | 30 - 130 | 30 | |
| 3-Nitroaniline | ND | 93 | 88 | 5.5 | 91 | 92 | 1.1 | 30 - 130 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 52 | 105 | 67.5 | 94 | 114 | 19.2 | 30 - 130 | 30 | r |
| 4-Bromophenyl phenyl ether | ND | 90 | 89 | 1.1 | 91 | 89 | 2.2 | 30 - 130 | 30 | |
| 4-Chloro-3-methylphenol | ND | 96 | 90 | 6.5 | 92 | 92 | 0.0 | 30 - 130 | 30 | |
| 4-Chloroaniline | ND | 111 | 102 | 8.5 | 103 | 111 | 7.5 | 30 - 130 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 90 | 86 | 4.5 | 89 | 91 | 2.2 | 30 - 130 | 30 | |
| 4-Nitroaniline | ND | 93 | 88 | 5.5 | 91 | 92 | 1.1 | 30 - 130 | 30 | |
| 4-Nitrophenol | ND | 66 | 10 | 147.4 | 13 | 11 | 16.7 | 30 - 130 | 30 | l,m,r |
| Acenaphthene | ND | 106 | 102 | 3.8 | 108 | 106 | 1.9 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 87 | 84 | 3.5 | 88 | 88 | 0.0 | 30 - 130 | 30 | |
| Acetophenone | ND | 85 | 82 | 3.6 | 85 | 84 | 1.2 | 30 - 130 | 30 | |
| Aniline | ND | >150 | 143 | NC | 121 | 132 | 8.7 | 30 - 130 | 30 | l,m |
| Anthracene | ND | 108 | 106 | 1.9 | 109 | 109 | 0.0 | 30 - 130 | 30 | |
| Benz(a)anthracene | ND | 110 | 107 | 2.8 | 110 | 111 | 0.9 | 30 - 130 | 30 | |
| Benzidine | ND | <5 | <5 | NC | <5 | <5 | NC | 30 - 130 | 30 | l,m |
| Benzo(a)pyrene | ND | 104 | 101 | 2.9 | 103 | 104 | 1.0 | 30 - 130 | 30 | |
| Benzo(b)fluoranthene | ND | 109 | 105 | 3.7 | 110 | 114 | 3.6 | 30 - 130 | 30 | |
| Benzo(ghi)perylene | ND | 123 | 119 | 3.3 | 120 | 117 | 2.5 | 30 - 130 | 30 | |
| Benzo(k)fluoranthene | ND | 104 | 104 | 0.0 | 103 | 110 | 6.6 | 30 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD14399

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzyl butyl phthalate | ND | 88 | 84 | 4.7 | 86 | 89 | 3.4 | 30 - 130 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 82 | 79 | 3.7 | 83 | 82 | 1.2 | 30 - 130 | 30 | |
| Bis(2-chloroethyl)ether | ND | 66 | 63 | 4.7 | 67 | 66 | 1.5 | 30 - 130 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 78 | 74 | 5.3 | 78 | 78 | 0.0 | 30 - 130 | 30 | |
| Bis(2-ethylhexyl)phthalate | ND | 86 | 82 | 4.8 | 84 | 85 | 1.2 | 30 - 130 | 30 | |
| Carbazole | ND | >150 | >150 | NC | >150 | >150 | NC | 30 - 130 | 30 | l,m |
| Chrysene | ND | 106 | 104 | 1.9 | 108 | 108 | 0.0 | 30 - 130 | 30 | |
| Dibenz(a,h)anthracene | ND | 123 | 120 | 2.5 | 122 | 122 | 0.0 | 30 - 130 | 30 | |
| Dibenzofuran | ND | 92 | 88 | 4.4 | 91 | 92 | 1.1 | 30 - 130 | 30 | |
| Diethyl phthalate | ND | 94 | 89 | 5.5 | 92 | 97 | 5.3 | 30 - 130 | 30 | |
| Dimethylphthalate | ND | 91 | 86 | 5.6 | 90 | 93 | 3.3 | 30 - 130 | 30 | |
| Di-n-butylphthalate | ND | 91 | 87 | 4.5 | 89 | 92 | 3.3 | 30 - 130 | 30 | |
| Di-n-octylphthalate | ND | 92 | 89 | 3.3 | 91 | 89 | 2.2 | 30 - 130 | 30 | |
| Fluoranthene | ND | 101 | 97 | 4.0 | 100 | 101 | 1.0 | 30 - 130 | 30 | |
| Fluorene | ND | 110 | 105 | 4.7 | 109 | 112 | 2.7 | 30 - 130 | 30 | |
| Hexachlorobenzene | ND | 87 | 86 | 1.2 | 87 | 87 | 0.0 | 30 - 130 | 30 | |
| Hexachlorobutadiene | ND | 85 | 82 | 3.6 | 85 | 84 | 1.2 | 30 - 130 | 30 | |
| Hexachlorocyclopentadiene | ND | 107 | 101 | 5.8 | 106 | 101 | 4.8 | 30 - 130 | 30 | |
| Hexachloroethane | ND | 80 | 78 | 2.5 | 81 | 79 | 2.5 | 30 - 130 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 137 | 133 | 3.0 | 121 | 133 | 9.4 | 30 - 130 | 30 | l,m |
| Isophorone | ND | 87 | 83 | 4.7 | 86 | 87 | 1.2 | 30 - 130 | 30 | |
| Naphthalene | ND | 85 | 81 | 4.8 | 86 | 83 | 3.6 | 30 - 130 | 30 | |
| Nitrobenzene | ND | 86 | 83 | 3.6 | 86 | 84 | 2.4 | 30 - 130 | 30 | |
| N-Nitrosodimethylamine | ND | 52 | 49 | 5.9 | 50 | 47 | 6.2 | 30 - 130 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 84 | 80 | 4.9 | 84 | 81 | 3.6 | 30 - 130 | 30 | |
| N-Nitrosodiphenylamine | ND | 106 | 100 | 5.8 | 101 | 107 | 5.8 | 30 - 130 | 30 | |
| Pentachloronitrobenzene | ND | 100 | 100 | 0.0 | 100 | 101 | 1.0 | 30 - 130 | 30 | |
| Pentachlorophenol | ND | 110 | 126 | 13.6 | 77 | 61 | 23.2 | 30 - 130 | 30 | |
| Phenanthrene | ND | 110 | 108 | 1.8 | 111 | 110 | 0.9 | 30 - 130 | 30 | |
| Phenol | ND | 77 | 73 | 5.3 | 77 | 73 | 5.3 | 30 - 130 | 30 | |
| Pyrene | ND | 116 | 112 | 3.5 | 116 | 117 | 0.9 | 30 - 130 | 30 | |
| Pyridine | ND | 42 | 41 | 2.4 | 24 | 30 | 22.2 | 30 - 130 | 30 | m |
| % 2,4,6-Tribromophenol | 106 | 105 | 105 | 0.0 | 98 | 103 | 5.0 | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 81 | 84 | 83 | 1.2 | 86 | 86 | 0.0 | 30 - 130 | 30 | |
| % 2-Fluorophenol | 71 | 73 | 73 | 0.0 | 75 | 73 | 2.7 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 84 | 84 | 82 | 2.4 | 83 | 82 | 1.2 | 30 - 130 | 30 | |
| % Phenol-d5 | 76 | 83 | 81 | 2.4 | 82 | 81 | 1.2 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 101 | 103 | 101 | 2.0 | 101 | 105 | 3.9 | 30 - 130 | 30 | |

QA/QC Batch 217761, QC Sample No: BD14398 (BD14403, BD14405, BD14409)

## Volatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 103 | 108 | 4.7 | 104 | 103 | 1.0 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 86 | 89 | 3.4 | 91 | 90 | 1.1 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 102 | 104 | 1.9 | 108 | 102 | 5.7 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 94 | 93 | 1.1 | 93 | 88 | 5.5 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 86 | 88 | 2.3 | 93 | 89 | 4.4 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 80 | 89 | 10.7 | 90 | 96 | 6.5 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 88 | 92 | 4.4 | 97 | 97 | 0.0 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 113 | 103 | 9.3 | 114 | 99 | 14.1 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 101 | 96 | 5.1 | 100 | 89 | 11.6 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 107 | 100 | 6.8 | 114 | 103 | 10.1 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 109 | 113 | 3.6 | 112 | 112 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 113 | 109 | 3.6 | 102 | 94 | 8.2 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD14399

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | ND | 91 | 89 | 2.2 | 91 | 86 | 5.6 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 106 | 108 | 1.9 | 110 | 108 | 1.8 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 91 | 90 | 1.1 | 93 | 89 | 4.4 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 91 | 91 | 0.0 | 94 | 91 | 3.2 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 107 | 112 | 4.6 | 112 | 112 | 0.0 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 107 | 110 | 2.8 | 112 | 110 | 1.8 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 104 | 105 | 1.0 | 106 | 102 | 3.8 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 106 | 108 | 1.9 | 111 | 109 | 1.8 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 88 | 89 | 1.1 | 88 | 86 | 2.3 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 105 | 107 | 1.9 | 112 | 110 | 1.8 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 95 | 93 | 2.1 | 81 | 76 | 6.4 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 106 | 110 | 3.7 | 117 | 118 | 0.9 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 105 | 107 | 1.9 | 112 | 110 | 1.8 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 89 | 86 | 3.4 | 89 | 82 | 8.2 | 70 - 130 | 30 | |
| Acetone | ND | 71 | 72 | 1.4 | 42 | 40 | 4.9 | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 90 | 84 | 6.9 | 97 | 84 | 14.4 | 70 - 130 | 30 | |
| Benzene | ND | 90 | 91 | 1.1 | 96 | 94 | 2.1 | 70 - 130 | 30 | |
| Bromobenzene | ND | 105 | 108 | 2.8 | 108 | 106 | 1.9 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 85 | 87 | 2.3 | 90 | 84 | 6.9 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 93 | 93 | 0.0 | 91 | 87 | 4.5 | 70 - 130 | 30 | |
| Bromoform | ND | 106 | 108 | 1.9 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| Bromomethane | ND | 86 | 85 | 1.2 | 70 | 63 | 10.5 | 70 - 130 | 30 | m |
| Carbon Disulfide | ND | 70 | 80 | 13.3 | 91 | 100 | 9.4 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 91 | 94 | 3.2 | 89 | 91 | 2.2 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 102 | 105 | 2.9 | 107 | 106 | 0.9 | 70 - 130 | 30 | |
| Chloroethane | ND | 81 | 93 | 13.8 | <40 | <40 | NC | 70 - 130 | 30 | m |
| Chloroform | ND | 88 | 88 | 0.0 | 91 | 87 | 4.5 | 70 - 130 | 30 | |
| Chloromethane | ND | 83 | 84 | 1.2 | 102 | 96 | 6.1 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 89 | 88 | 1.1 | 93 | 87 | 6.7 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 92 | 91 | 1.1 | 90 | 88 | 2.2 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 107 | 109 | 1.9 | 100 | 98 | 2.0 | 70 - 130 | 30 | |
| Dibromomethane | ND | 93 | 91 | 2.2 | 93 | 87 | 6.7 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 85 | 88 | 3.5 | 110 | 107 | 2.8 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 100 | 103 | 3.0 | 109 | 110 | 0.9 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 105 | 102 | 2.9 | 117 | 109 | 7.1 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 108 | 114 | 5.4 | 111 | 112 | 0.9 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 101 | 104 | 2.9 | 109 | 109 | 0.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 68 | 64 | 6.1 | 67 | 57 | 16.1 | 70 - 130 | 30 | l,m |
| Methyl t-butyl ether (MTBE) | ND | 88 | 85 | 3.5 | 92 | 87 | 5.6 | 70 - 130 | 30 | |
| Methylene chloride | ND | 75 | 83 | 10.1 | 79 | 84 | 6.1 | 70 - 130 | 30 | |
| Naphthalene | ND | 124 | 98 | 23.4 | 117 | 92 | 23.9 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 109 | 111 | 1.8 | 118 | 117 | 0.9 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 110 | 114 | 3.6 | 113 | 114 | 0.9 | 70 - 130 | 30 | |
| o-Xylene | ND | 102 | 105 | 2.9 | 111 | 110 | 0.9 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 109 | 114 | 4.5 | 114 | 114 | 0.0 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 106 | 110 | 3.7 | 114 | 115 | 0.9 | 70 - 130 | 30 | |
| Styrene | ND | 97 | 102 | 5.0 | 108 | 110 | 1.8 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 109 | 113 | 3.6 | 112 | 113 | 0.9 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 100 | 105 | 4.9 | 110 | 113 | 2.7 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 85 | 82 | 3.6 | 90 | 79 | 13.0 | 70 - 130 | 30 | |
| Toluene | ND | 89 | 91 | 2.2 | 95 | 95 | 0.0 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 87 | 86 | 1.2 | 95 | 90 | 5.4 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 91 | 89 | 2.2 | 91 | 85 | 6.8 | 70 - 130 | 30 | |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 111 | 110 | 0.9 | 109 | 102 | 6.6 | 70 - 130 | 30 |
| Trichloroethene | ND | 94 | 95 | 1.1 | 93 | 92 | 1.1 | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 88 | 92 | 4.4 | NC | NC | NC | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 84 | 91 | 8.0 | 94 | 101 | 7.2 | 70 - 130 | 30 |
| Vinyl chloride | ND | 83 | 82 | 1.2 | 91 | 86 | 5.6 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 98 | 99 | 99 | 0.0 | 99 | 97 | 2.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 94 | 97 | 96 | 1.0 | 97 | 98 | 1.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 95 | 96 | 96 | 0.0 | 98 | 94 | 4.2 | 70 - 130 | 30 |
| % Toluene-d8 | 98 | 98 | 99 | 1.0 | 98 | 98 | 0.0 | 70 - 130 | 30 |

QA/QC Batch 217548, QC Sample No: BD14407 (BD14399, BD14400, BD14401, BD14402, BD14403, BD14404, BD14405, BD14406, BD14407, BD14408)

## Pesticides - Soil

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4,4' -DDD | ND | 61 | 70 | 13.7 | 69 | 67 | 2.9 | 40 - 140 | 30 |
| 4,4' -DDE | ND | 64 | 73 | 13.1 | 73 | 69 | 5.6 | 40 - 140 | 30 |
| 4,4' -DDT | ND | 61 | 68 | 10.9 | 76 | 73 | 4.0 | 40 - 140 | 30 |
| a-BHC | ND | 70 | 80 | 13.3 | 75 | 73 | 2.7 | 40 - 140 | 30 |
| a-Chlordane | ND | 66 | 75 | 12.8 | 72 | 69 | 4.3 | 40 - 140 | 30 |
| Alachlor | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| Aldrin | ND | 67 | 77 | 13.9 | 72 | 69 | 4.3 | 40 - 140 | 30 |
| b-BHC | ND | 63 | 72 | 13.3 | 64 | 65 | 1.6 | 40 - 140 | 30 |
| Chlordane | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| d-BHC | ND | 66 | 73 | 10.1 | 70 | 70 | 0.0 | 40 - 140 | 30 |
| Dieldrin | ND | 66 | 74 | 11.4 | 72 | 73 | 1.4 | 40 - 140 | 30 |
| Endosulfan I | ND | 66 | 76 | 14.1 | 70 | 68 | 2.9 | 40 - 140 | 30 |
| Endosulfan II | ND | 59 | 70 | 17.1 | 70 | 69 | 1.4 | 40 - 140 | 30 |
| Endosulfan sulfate | ND | 61 | 70 | 13.7 | 69 | 67 | 2.9 | 40 - 140 | 30 |
| Endrin | ND | 57 | 62 | 8.4 | 72 | 71 | 1.4 | 40 - 140 | 30 |
| Endrin aldehyde | ND | 62 | 86 | 32.4 | 81 | 81 | 0.0 | 40 - 140 | 30 |
| Endrin ketone | ND | 72 | 81 | 11.8 | 76 | 74 | 2.7 | 40 - 140 | 30 |
| g-BHC | ND | 69 | 78 | 12.2 | 74 | 73 | 1.4 | 40 - 140 | 30 |
| g-Chlordane | ND | 67 | 75 | 11.3 | 75 | 71 | 5.5 | 40 - 140 | 30 |
| Heptachlor | ND | 66 | 75 | 12.8 | 71 | 69 | 2.9 | 40 - 140 | 30 |
| Heptachlor epoxide | ND | 67 | 75 | 11.3 | 71 | 69 | 2.9 | 40 - 140 | 30 |
| Methoxychlor | ND | 61 | 65 | 6.3 | 65 | 63 | 3.1 | 40 - 140 | 30 |
| Toxaphene | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| % DCBP | 59 | 61 | 71 | 15.2 | 67 | 71 | 5.8 | 30 - 150 | 30 |
| % TCMX | 68 | 70 | 79 | 12.1 | 72 | 72 | 0.0 | 30 - 150 | 30 |

QA/QC Batch 217557, QC Sample No: BD14407 (BD14399, BD14400, BD14401, BD14402, BD14403, BD14404, BD14405, BD14406, BD14407, BD14408, BD14409, BD14410)

## Polychlorinated Biphenyls - Soil

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | 77 | 69 | 11.0 | 74 | 73 | 1.4 | 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 | 74 | 68 | 8.5 | 75 | 79 | 5.2 | 40 - 140 | 30 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 30 |
| % DCBP (Surrogate Rec) | 79 | 78 | 71 | 9.4 | 75 | 74 | 1.3 | 30 - 150 | 30 |
| % TCMX (Surrogate Rec) | 77 | 77 | 70 | 9.5 | 73 | 73 | 0.0 | 30 - 150 | 30 |

# QA/QC Data

SDG I.D.: GBD14399

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 217653, QC Sample No: BD14407 (BD14399, BD14400, BD14401, BD14402, BD14404, BD14406, BD14407, BD14408, BD14410) | | | | | | | | | | |
| **Volatiles - Soil** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 122 | 113 | 7.7 | 100 | 102 | 2.0 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 103 | 96 | 7.0 | 88 | 89 | 1.1 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 125 | 107 | 15.5 | 112 | 128 | 13.3 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 114 | 98 | 15.1 | 85 | 88 | 3.5 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 104 | 94 | 10.1 | 89 | 90 | 1.1 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 95 | 98 | 3.1 | 91 | 84 | 8.0 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 103 | 97 | 6.0 | 87 | 84 | 3.5 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 124 | 100 | 21.4 | 56 | 49 | 13.3 | 70 - 130 | 30 | m |
| 1,2,3-Trichloropropane | ND | 125 | 100 | 22.2 | 111 | 118 | 6.1 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 112 | 94 | 17.5 | 57 | 48 | 17.1 | 70 - 130 | 30 | m |
| 1,2,4-Trimethylbenzene | ND | 121 | 114 | 6.0 | 96 | 93 | 3.2 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 143 | 117 | 20.0 | 93 | 109 | 15.8 | 70 - 130 | 30 | l |
| 1,2-Dibromoethane | ND | 111 | 93 | 17.6 | 80 | 80 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 121 | 109 | 10.4 | 90 | 84 | 6.9 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 108 | 94 | 13.9 | 86 | 89 | 3.4 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 105 | 95 | 10.0 | 88 | 89 | 1.1 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 119 | 114 | 4.3 | 103 | 103 | 0.0 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 119 | 109 | 8.8 | 91 | 85 | 6.8 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 126 | 108 | 15.4 | 100 | 103 | 3.0 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 117 | 107 | 8.9 | 88 | 82 | 7.1 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 102 | 94 | 8.2 | 83 | 85 | 2.4 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 115 | 108 | 6.3 | 99 | 95 | 4.1 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 122 | 95 | 24.9 | 59 | 63 | 6.6 | 70 - 130 | 30 | m |
| 2-Isopropyltoluene | ND | 120 | 114 | 5.1 | 103 | 103 | 0.0 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 115 | 108 | 6.3 | 99 | 95 | 4.1 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 115 | 90 | 24.4 | 71 | 75 | 5.5 | 70 - 130 | 30 | |
| Acetone | ND | 90 | 73 | 20.9 | 42 | 49 | 15.4 | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 116 | 89 | 26.3 | 75 | 84 | 11.3 | 70 - 130 | 30 | |
| Benzene | ND | 104 | 95 | 9.0 | 87 | 86 | 1.2 | 70 - 130 | 30 | |
| Bromobenzene | ND | 121 | 112 | 7.7 | 100 | 97 | 3.0 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 104 | 92 | 12.2 | 84 | 85 | 1.2 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 109 | 97 | 11.7 | 87 | 87 | 0.0 | 70 - 130 | 30 | |
| Bromoform | ND | 132 | 112 | 16.4 | 92 | 95 | 3.2 | 70 - 130 | 30 | l |
| Bromomethane | ND | 97 | 93 | 4.2 | 80 | 81 | 1.2 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 84 | 88 | 4.7 | 88 | 79 | 10.8 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 106 | 101 | 4.8 | 90 | 89 | 1.1 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 116 | 108 | 7.1 | 93 | 87 | 6.7 | 70 - 130 | 30 | |
| Chloroethane | ND | 97 | 105 | 7.9 | 96 | 85 | 12.2 | 70 - 130 | 30 | |
| Chloroform | ND | 105 | 94 | 11.1 | 87 | 88 | 1.1 | 70 - 130 | 30 | |
| Chloromethane | ND | 103 | 94 | 9.1 | 83 | 85 | 2.4 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 107 | 92 | 15.1 | 85 | 85 | 0.0 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 106 | 93 | 13.1 | 79 | 78 | 1.3 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 129 | 114 | 12.3 | 97 | 101 | 4.0 | 70 - 130 | 30 | |
| Dibromomethane | ND | 112 | 95 | 16.4 | 83 | 85 | 2.4 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 107 | 102 | 4.8 | 81 | 82 | 1.2 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 114 | 107 | 6.3 | 96 | 90 | 6.5 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 114 | 103 | 10.1 | 69 | 65 | 6.0 | 70 - 130 | 30 | m |
| Isopropylbenzene | ND | 123 | 119 | 3.3 | 112 | 115 | 2.6 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 114 | 107 | 6.3 | 92 | 87 | 5.6 | 70 - 130 | 30 | |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl ethyl ketone | ND | 88 | 65 | 30.1 | 53 | 63 | 17.2 | 70 - 130 | 30 | l,m |
| Methyl t-butyl ether (MTBE) | ND | 106 | 89 | 17.4 | 83 | 93 | 11.4 | 70 - 130 | 30 | |
| Methylene chloride | ND | 91 | 91 | 0.0 | 84 | 79 | 6.1 | 70 - 130 | 30 | |
| Naphthalene | ND | >150 | 104 | NC | 53 | 60 | 12.4 | 70 - 130 | 30 | l,m |
| n-Butylbenzene | ND | 116 | 109 | 6.2 | 91 | 82 | 10.4 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 123 | 118 | 4.1 | 106 | 105 | 0.9 | 70 - 130 | 30 | |
| o-Xylene | ND | 116 | 108 | 7.1 | 95 | 91 | 4.3 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 120 | 115 | 4.3 | 97 | 90 | 7.5 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 118 | 116 | 1.7 | 105 | 103 | 1.9 | 70 - 130 | 30 | |
| Styrene | ND | 111 | 100 | 10.4 | 83 | 75 | 10.1 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 123 | 120 | 2.5 | 109 | 113 | 3.6 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 113 | 110 | 2.7 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 114 | 86 | 28.0 | 79 | 90 | 13.0 | 70 - 130 | 30 | |
| Toluene | ND | 103 | 95 | 8.1 | 85 | 82 | 3.6 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 107 | 92 | 15.1 | 85 | 89 | 4.6 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 107 | 92 | 15.1 | 77 | 74 | 4.0 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 135 | 112 | 18.6 | 95 | 100 | 5.1 | 70 - 130 | 30 | l |
| Trichloroethene | ND | 111 | 102 | 8.5 | 82 | 81 | 1.2 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 105 | 102 | 2.9 | 90 | 90 | 0.0 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 99 | 100 | 1.0 | 91 | 88 | 3.4 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 102 | 91 | 11.4 | 82 | 85 | 3.6 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 100 | 101 | 99 | 2.0 | 99 | 101 | 2.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 95 | 97 | 96 | 1.0 | 92 | 90 | 2.2 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 98 | 100 | 99 | 1.0 | 98 | 104 | 5.9 | 70 - 130 | 30 | |
| % Toluene-d8 | 98 | 97 | 98 | 1.0 | 98 | 97 | 1.0 | 70 - 130 | 30 | |

QA/QC Batch 217554, QC Sample No: BD14410 (BD14409, BD14410)

## Semivolatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 82 | 84 | 2.4 | 85 | 87 | 2.3 | 30 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 73 | 77 | 5.3 | 78 | 81 | 3.8 | 30 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 80 | 81 | 1.2 | 82 | 86 | 4.8 | 30 - 130 | 30 | |
| 1,2-Diphenylhydrazine | ND | 95 | 97 | 2.1 | 98 | 101 | 3.0 | 30 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 76 | 78 | 2.6 | 77 | 82 | 6.3 | 30 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 79 | 79 | 0.0 | 79 | 82 | 3.7 | 30 - 130 | 30 | |
| 2,4,5-Trichlorophenol | ND | 91 | 95 | 4.3 | 97 | 103 | 6.0 | 30 - 130 | 30 | |
| 2,4,6-Trichlorophenol | ND | 98 | 96 | 2.1 | 99 | 100 | 1.0 | 30 - 130 | 30 | |
| 2,4-Dichlorophenol | ND | 78 | 82 | 5.0 | 82 | 84 | 2.4 | 30 - 130 | 30 | |
| 2,4-Dimethylphenol | ND | 53 | 55 | 3.7 | 54 | 57 | 5.4 | 30 - 130 | 30 | |
| 2,4-Dinitrophenol | ND | 14 | 8.9 | 44.5 | 23 | 22 | 4.4 | 30 - 130 | 30 | l,m,r |
| 2,4-Dinitrotoluene | ND | 94 | 95 | 1.1 | 98 | 100 | 2.0 | 30 - 130 | 30 | |
| 2,6-Dinitrotoluene | ND | 97 | 97 | 0.0 | 97 | 103 | 6.0 | 30 - 130 | 30 | |
| 2-Chloronaphthalene | ND | 91 | 95 | 4.3 | 96 | 102 | 6.1 | 30 - 130 | 30 | |
| 2-Chlorophenol | ND | 82 | 82 | 0.0 | 87 | 89 | 2.3 | 30 - 130 | 30 | |
| 2-Methylnaphthalene | ND | 84 | 86 | 2.4 | 86 | 90 | 4.5 | 30 - 130 | 30 | |
| 2-Methylphenol (o-cresol) | ND | 80 | 83 | 3.7 | 83 | 87 | 4.7 | 30 - 130 | 30 | |
| 2-Nitroaniline | ND | 136 | 139 | 2.2 | 127 | 139 | 9.0 | 30 - 130 | 30 | l,m |
| 2-Nitrophenol | ND | 71 | 71 | 0.0 | 77 | 81 | 5.1 | 30 - 130 | 30 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 83 | 84 | 1.2 | 80 | 85 | 6.1 | 30 - 130 | 30 | |
| 3,3'-Dichlorobenzidine | ND | 119 | 138 | 14.8 | 118 | 142 | 18.5 | 30 - 130 | 30 | l,m |
| 3-Nitroaniline | ND | 120 | 127 | 5.7 | 116 | 117 | 0.9 | 30 - 130 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 55 | 54 | 1.8 | 75 | 86 | 13.7 | 30 - 130 | 30 | |
| 4-Bromophenyl phenyl ether | ND | 87 | 88 | 1.1 | 92 | 96 | 4.3 | 30 - 130 | 30 | |
| 4-Chloro-3-methylphenol | ND | 86 | 90 | 4.5 | 91 | 91 | 0.0 | 30 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD14399

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chloroaniline | ND | 133 | 140 | 5.1 | 141 | 124 | 12.8 | 30 - 130 | 30 | l,m |
| 4-Chlorophenyl phenyl ether | ND | 89 | 91 | 2.2 | 88 | 95 | 7.7 | 30 - 130 | 30 | |
| 4-Nitroaniline | ND | 96 | 100 | 4.1 | 101 | 105 | 3.9 | 30 - 130 | 30 | |
| 4-Nitrophenol | ND | 89 | 91 | 2.2 | 91 | 90 | 1.1 | 30 - 130 | 30 | |
| Acenaphthene | ND | 113 | 115 | 1.8 | 120 | 122 | 1.7 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 89 | 92 | 3.3 | 94 | 98 | 4.2 | 30 - 130 | 30 | |
| Acetophenone | ND | 83 | 85 | 2.4 | 85 | 89 | 4.6 | 30 - 130 | 30 | |
| Aniline | ND | >150 | >150 | NC | >150 | >150 | NC | 30 - 130 | 30 | l,m |
| Anthracene | ND | 112 | 114 | 1.8 | 122 | 124 | 1.6 | 30 - 130 | 30 | |
| Benz(a)anthracene | ND | 110 | 111 | 0.9 | 113 | 116 | 2.6 | 30 - 130 | 30 | |
| Benzidine | ND | 45 | 54 | 18.2 | <5 | 13 | NC | 30 - 130 | 30 | m |
| Benzo(a)pyrene | ND | 104 | 109 | 4.7 | 108 | 114 | 5.4 | 30 - 130 | 30 | |
| Benzo(b)fluoranthene | ND | 115 | 124 | 7.5 | 123 | 120 | 2.5 | 30 - 130 | 30 | |
| Benzo(ghi)perylene | ND | 108 | 113 | 4.5 | 104 | 110 | 5.6 | 30 - 130 | 30 | |
| Benzo(k)fluoranthene | ND | 108 | 116 | 7.1 | 120 | 131 | 8.8 | 30 - 130 | 30 | m |
| Benzyl butyl phthalate | ND | 92 | 94 | 2.2 | 96 | 99 | 3.1 | 30 - 130 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 84 | 88 | 4.7 | 92 | 93 | 1.1 | 30 - 130 | 30 | |
| Bis(2-chloroethyl)ether | ND | 81 | 83 | 2.4 | 84 | 93 | 10.2 | 30 - 130 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 87 | 90 | 3.4 | 97 | 102 | 5.0 | 30 - 130 | 30 | |
| Bis(2-ethylhexyl)phthalate | ND | 89 | 89 | 0.0 | 96 | 98 | 2.1 | 30 - 130 | 30 | |
| Carbazole | ND | 130 | 130 | 0.0 | 127 | 137 | 7.6 | 30 - 130 | 30 | m |
| Chrysene | ND | 107 | 113 | 5.5 | 119 | 120 | 0.8 | 30 - 130 | 30 | |
| Dibenz(a,h)anthracene | ND | 112 | 121 | 7.7 | 110 | 117 | 6.2 | 30 - 130 | 30 | |
| Dibenzofuran | ND | 89 | 92 | 3.3 | 93 | 96 | 3.2 | 30 - 130 | 30 | |
| Diethyl phthalate | ND | 94 | 98 | 4.2 | 98 | 102 | 4.0 | 30 - 130 | 30 | |
| Dimethylphthalate | ND | 90 | 92 | 2.2 | 95 | 96 | 1.0 | 30 - 130 | 30 | |
| Di-n-butylphthalate | ND | 90 | 95 | 5.4 | 97 | 99 | 2.0 | 30 - 130 | 30 | |
| Di-n-octylphthalate | ND | 86 | 88 | 2.3 | 94 | 97 | 3.1 | 30 - 130 | 30 | |
| Fluoranthene | ND | 92 | 95 | 3.2 | 97 | 101 | 4.0 | 30 - 130 | 30 | |
| Fluorene | ND | 113 | 115 | 1.8 | 117 | 123 | 5.0 | 30 - 130 | 30 | |
| Hexachlorobenzene | ND | 94 | 97 | 3.1 | 94 | 104 | 10.1 | 30 - 130 | 30 | |
| Hexachlorobutadiene | ND | 77 | 78 | 1.3 | 78 | 81 | 3.8 | 30 - 130 | 30 | |
| Hexachlorocyclopentadiene | ND | 86 | 86 | 0.0 | 84 | 92 | 9.1 | 30 - 130 | 30 | |
| Hexachloroethane | ND | 81 | 78 | 3.8 | 78 | 83 | 6.2 | 30 - 130 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 111 | 117 | 5.3 | 107 | 114 | 6.3 | 30 - 130 | 30 | |
| Isophorone | ND | 91 | 96 | 5.3 | 96 | 100 | 4.1 | 30 - 130 | 30 | |
| Naphthalene | ND | 85 | 88 | 3.5 | 89 | 91 | 2.2 | 30 - 130 | 30 | |
| Nitrobenzene | ND | 85 | 85 | 0.0 | 87 | 91 | 4.5 | 30 - 130 | 30 | |
| N-Nitrosodimethylamine | ND | 83 | 85 | 2.4 | 86 | 92 | 6.7 | 30 - 130 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 86 | 86 | 0.0 | 86 | 91 | 5.6 | 30 - 130 | 30 | |
| N-Nitrosodiphenylamine | ND | 100 | 104 | 3.9 | 103 | 107 | 3.8 | 30 - 130 | 30 | |
| Pentachloronitrobenzene | ND | 92 | 96 | 4.3 | 94 | 100 | 6.2 | 30 - 130 | 30 | |
| Pentachlorophenol | ND | 92 | 91 | 1.1 | 104 | 106 | 1.9 | 30 - 130 | 30 | |
| Phenanthrene | ND | 110 | 114 | 3.6 | 121 | 124 | 2.4 | 30 - 130 | 30 | |
| Phenol | ND | 105 | 110 | 4.7 | 105 | 110 | 4.7 | 30 - 130 | 30 | |
| Pyrene | ND | 115 | 118 | 2.6 | 123 | 125 | 1.6 | 30 - 130 | 30 | |
| Pyridine | ND | 76 | 80 | 5.1 | 66 | 64 | 3.1 | 30 - 130 | 30 | |
| % 2,4,6-Tribromophenol | 89 | 97 | 104 | 7.0 | 109 | 112 | 2.7 | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 87 | 84 | 91 | 8.0 | 92 | 96 | 4.3 | 30 - 130 | 30 | |
| % 2-Fluorophenol | 91 | 85 | 90 | 5.7 | 92 | 98 | 6.3 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 80 | 80 | 85 | 6.1 | 87 | 88 | 1.1 | 30 - 130 | 30 | |
| % Phenol-d5 | 94 | 95 | 101 | 6.1 | 103 | 109 | 5.7 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 93 | 93 | 98 | 5.2 | 103 | 102 | 1.0 | 30 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD14399

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 217556, QC Sample No: BD14666 (BD14409, BD14410) | | | | | | | | | |
| **Pesticides - Soil** | | | | | | | | | |
| 4,4' -DDD | ND | 80 | 74 | 7.8 | 73 | 75 | 2.7 | 40 - 140 | 30 |
| 4,4' -DDE | ND | 82 | 73 | 11.6 | 73 | 74 | 1.4 | 40 - 140 | 30 |
| 4,4' -DDT | ND | 81 | 73 | 10.4 | 73 | 76 | 4.0 | 40 - 140 | 30 |
| a-BHC | ND | 84 | 75 | 11.3 | 74 | 76 | 2.7 | 40 - 140 | 30 |
| a-Chlordane | ND | 83 | 73 | 12.8 | 73 | 75 | 2.7 | 40 - 140 | 30 |
| Alachlor | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| Aldrin | ND | 82 | 74 | 10.3 | 72 | 74 | 2.7 | 40 - 140 | 30 |
| b-BHC | ND | 83 | 75 | 10.1 | 74 | 76 | 2.7 | 40 - 140 | 30 |
| Chlordane | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| d-BHC | ND | 83 | 75 | 10.1 | 74 | 76 | 2.7 | 40 - 140 | 30 |
| Dieldrin | ND | 82 | 74 | 10.3 | 73 | 76 | 4.0 | 40 - 140 | 30 |
| Endosulfan I | ND | 82 | 76 | 7.6 | 75 | 76 | 1.3 | 40 - 140 | 30 |
| Endosulfan II | ND | 74 | 70 | 5.6 | 72 | 76 | 5.4 | 40 - 140 | 30 |
| Endosulfan sulfate | ND | 72 | 70 | 2.8 | 70 | 74 | 5.6 | 40 - 140 | 30 |
| Endrin | ND | 62 | 63 | 1.6 | 69 | 71 | 2.9 | 40 - 140 | 30 |
| Endrin aldehyde | ND | 77 | 71 | 8.1 | 70 | 74 | 5.6 | 40 - 140 | 30 |
| Endrin ketone | ND | 85 | 76 | 11.2 | 75 | 79 | 5.2 | 40 - 140 | 30 |
| g-BHC | ND | 82 | 74 | 10.3 | 72 | 75 | 4.1 | 40 - 140 | 30 |
| g-Chlordane | ND | 79 | 71 | 10.7 | 70 | 71 | 1.4 | 40 - 140 | 30 |
| Heptachlor | ND | 77 | 69 | 11.0 | 68 | 71 | 4.3 | 40 - 140 | 30 |
| Heptachlor epoxide | ND | 82 | 74 | 10.3 | 72 | 75 | 4.1 | 40 - 140 | 30 |
| Methoxychlor | ND | 76 | 71 | 6.8 | 71 | 76 | 6.8 | 40 - 140 | 30 |
| Toxaphene | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| % DCBP | 34 | 79 | 70 | 12.1 | 66 | 71 | 7.3 | 30 - 150 | 30 |
| % TCMX | 34 | 86 | 77 | 11.0 | 75 | 76 | 1.3 | 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.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
January 09, 2013

# Sample Criteria Exceedences Report

## GBD14399 - EBC

Requested Criteria: 375, 375RS

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD14399 | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 10 | 2.2 | 3.3 | 3.3 | ug/Kg |
| BD14399 | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 17 | 2.2 | 3.3 | 3.3 | ug/Kg |
| BD14399 | HG-SM | Mercury | NY / 375-6.8 Metals / Residential | 1.38 | 0.07 | 0.81 | 0.81 | mg/Kg |
| BD14399 | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 1.38 | 0.07 | 0.18 | 0.18 | mg/Kg |
| BD14399 | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 160 | 3.6 | 63 | 63 | mg/Kg |
| BD14401 | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2600 | 330 | 330 | ug/Kg |
| BD14401 | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2600 | 330 | 330 | ug/Kg |
| BD14401 | $8270-SMR | Dibenzofuran | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 14000 | 2600 | 7000 | 7000 | ug/Kg |
| BD14401 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Residential | ND | 3700 | 2400 | 2400 | ug/Kg |
| BD14401 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 3700 | 800 | 800 | ug/Kg |
| BD14401 | $8270-SMR | Phenanthrene | NY / 375-6.8 Semivolatiles / Residential | 190000 | 2600 | 100000 | 100000 | ug/Kg |
| BD14401 | $8270-SMR | Phenanthrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 190000 | 2600 | 100000 | 100000 | ug/Kg |
| BD14401 | $8270-SMR | Fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 160000 | 2600 | 100000 | 100000 | ug/Kg |
| BD14401 | $8270-SMR | Fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 160000 | 2600 | 100000 | 100000 | ug/Kg |
| BD14401 | $8270-SMR | Pyrene | NY / 375-6.8 Semivolatiles / Residential | 120000 | 2600 | 100000 | 100000 | ug/Kg |
| BD14401 | $8270-SMR | Pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 120000 | 2600 | 100000 | 100000 | ug/Kg |
| BD14401 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Residential | 65000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 65000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Residential | 53000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 53000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 64000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 64000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 17000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 17000 | 2600 | 800 | 800 | ug/Kg |
| BD14401 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Residential | 44000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 44000 | 2600 | 1000 | 1000 | ug/Kg |
| BD14401 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Residential | 20000 | 2600 | 500 | 500 | ug/Kg |
| BD14401 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 20000 | 2600 | 500 | 500 | ug/Kg |
| BD14401 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Residential | ND | 2600 | 330 | 330 | ug/Kg |
| BD14401 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2600 | 330 | 330 | ug/Kg |
| BD14401 | $PEST_SMR | a-BHC | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 36 | 20 | 20 | ug/Kg |
| BD14401 | $PEST_SMR | Aldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 11 | 5 | 5 | ug/Kg |
| BD14401 | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 23 | 3.3 | 3.3 | ug/Kg |
| BD14401 | $PEST_SMR | Dieldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 11 | 5 | 5 | ug/Kg |
| BD14401 | $PEST_SMR | Endrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 73 | 14 | 14 | ug/Kg |
| BD14401 | $PEST_SMR | 4,4' -DDD | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 23 | 3.3 | 3.3 | ug/Kg |
| BD14401 | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 23 | 3.3 | 3.3 | ug/Kg |
| BD14401 | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 59.7 | 0.36 | 50 | 50 | mg/kg |
| BD14401 | HG-SM | Mercury | NY / 375-6.8 Metals / Residential | 1.45 | 0.07 | 0.81 | 0.81 | mg/Kg |
| BD14401 | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 1.45 | 0.07 | 0.18 | 0.18 | mg/Kg |
| BD14401 | PB-SM | Lead | NY / 375-6.8 Metals / Residential | 445 | 3.6 | 400 | 400 | mg/Kg |

# Sample Criteria Exceedences Report

## GBD14399 - EBC

Requested Criteria: 375, 375RS
State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD14401 | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 445 | 3.6 | 63 | 63 | mg/Kg |
| BD14401 | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 220 | 3.6 | 109 | 109 | mg/Kg |
| BD14402 | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 53.0 | 0.35 | 50 | 50 | mg/kg |
| BD14402 | NI-SM | Nickel | NY / 375-6.8 Metals / Unrestricted Use Soil | 38.9 | 0.35 | 30 | 30 | mg/Kg |
| BD14403 | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14403 | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14403 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Residential | ND | 3600 | 2400 | 2400 | ug/Kg |
| BD14403 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 3600 | 800 | 800 | ug/Kg |
| BD14403 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Residential | 2700 | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2700 | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Residential | 2700 | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2700 | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 3200 | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 3200 | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | ND | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 800 | 800 | ug/Kg |
| BD14403 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Residential | ND | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 1000 | 1000 | ug/Kg |
| BD14403 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Residential | ND | 2500 | 500 | 500 | ug/Kg |
| BD14403 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 500 | 500 | ug/Kg |
| BD14403 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Residential | ND | 2500 | 330 | 330 | ug/Kg |
| BD14403 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14403 | $PEST_SMR | a-BHC | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 35 | 20 | 20 | ug/Kg |
| BD14403 | $PEST_SMR | Aldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 11 | 5 | 5 | ug/Kg |
| BD14403 | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 22 | 3.3 | 3.3 | ug/Kg |
| BD14403 | $PEST_SMR | Dieldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 11 | 5 | 5 | ug/Kg |
| BD14403 | $PEST_SMR | Endrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 70 | 14 | 14 | ug/Kg |
| BD14403 | $PEST_SMR | 4,4' -DDD | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 22 | 3.3 | 3.3 | ug/Kg |
| BD14403 | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 22 | 3.3 | 3.3 | ug/Kg |
| BD14403 | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 76.5 | 0.38 | 50 | 50 | mg/kg |
| BD14403 | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 0.81 | 0.07 | 0.18 | 0.18 | mg/Kg |
| BD14403 | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 327 | 3.8 | 63 | 63 | mg/Kg |
| BD14403 | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 148 | 0.38 | 109 | 109 | mg/Kg |
| BD14404 | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 90.8 | 0.35 | 50 | 50 | mg/kg |
| BD14404 | NI-SM | Nickel | NY / 375-6.8 Metals / Unrestricted Use Soil | 35.5 | 0.35 | 30 | 30 | mg/Kg |
| BD14405 | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 1300 | 330 | 330 | ug/Kg |
| BD14405 | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 1300 | 330 | 330 | ug/Kg |
| BD14405 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 1800 | 800 | 800 | ug/Kg |
| BD14405 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Residential | 2700 | 1300 | 1000 | 1000 | ug/Kg |

# Sample Criteria Exceedences Report

## GBD14399 - EBC

Requested Criteria: 375, 375RS

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD14405 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2700 | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Residential | 2900 | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2900 | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 3200 | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 3200 | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | ND | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 1300 | 800 | 800 | ug/Kg |
| BD14405 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Residential | 2600 | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 2600 | 1300 | 1000 | 1000 | ug/Kg |
| BD14405 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Residential | ND | 1300 | 500 | 500 | ug/Kg |
| BD14405 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 1300 | 500 | 500 | ug/Kg |
| BD14405 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Residential | ND | 1300 | 330 | 330 | ug/Kg |
| BD14405 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 1300 | 330 | 330 | ug/Kg |
| BD14405 | $PEST_SMR | Dieldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 9.0 | 1.1 | 5 | 5 | ug/Kg |
| BD14405 | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 38 | 2.2 | 3.3 | 3.3 | ug/Kg |
| BD14405 | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 0.34 | 0.07 | 0.18 | 0.18 | mg/Kg |
| BD14405 | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 210 | 3.7 | 63 | 63 | mg/Kg |
| BD14405 | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 138 | 0.37 | 109 | 109 | mg/Kg |
| BD14406 | NI-SM | Nickel | NY / 375-6.8 Metals / Unrestricted Use Soil | 128 | 0.34 | 30 | 30 | mg/Kg |
| BD14407 | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 3.6 | 2.2 | 3.3 | 3.3 | ug/Kg |
| BD14407 | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 29 | 2.2 | 3.3 | 3.3 | ug/Kg |
| BD14407 | HG-SM | Mercury | NY / 375-6.8 Metals / Unrestricted Use Soil | 0.21 | 0.06 | 0.18 | 0.18 | mg/Kg |
| BD14407 | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 176 | 3.8 | 63 | 63 | mg/Kg |
| BD14408 | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 57.5 | 0.34 | 50 | 50 | mg/kg |
| BD14409 | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14409 | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14409 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Residential | ND | 3600 | 2400 | 2400 | ug/Kg |
| BD14409 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 3600 | 800 | 800 | ug/Kg |
| BD14409 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Residential | 10000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 10000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Residential | 12000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 12000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 13000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 13000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 4900 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 4900 | 2500 | 800 | 800 | ug/Kg |
| BD14409 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Residential | 9500 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 9500 | 2500 | 1000 | 1000 | ug/Kg |
| BD14409 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Residential | 4200 | 2500 | 500 | 500 | ug/Kg |

# Sample Criteria Exceedences Report

## GBD14399 - EBC



Requested Criteria: 375, 375RS

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD14409 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 4200 | 2500 | 500 | 500 | ug/Kg |
| BD14409 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Residential | ND | 2500 | 330 | 330 | ug/Kg |
| BD14409 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14409 | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 177 | 3.3 | 63 | 63 | mg/Kg |
| BD14409 | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 137 | 3.3 | 109 | 109 | mg/Kg |
| BD14410 | NI-SM | Nickel | NY / 375-6.8 Metals / Unrestricted Use Soil | 53.3 | 0.37 | 30 | 30 | mg/Kg |

**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

# NY Temperature Narration

**January 09, 2013**

**SDG I.D.: GBD14399**

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

WLC + IP

# NY/NJ CHAIN OF CUSTODY RECORD

Temp 4° Pg 1 of 2

**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**

**Data Delivery:**
☐ Fax #:
☑ Email: csosik@ebcincny.com

Customer: EBC
Address: 1808 Middle Country Rd, Ridge, NY, 11961

Project: 683 Marcy Ave.
Report to: EBC
Invoice to:

Project P.O:
Phone #: 631-504-6000
Fax #:

**Client Sample - Information - Identification**

Sampler's Signature:

Date: 12.28.12

**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/PCBs 8081/8082 | TAL Metals 6010 | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( 8 ) oz | GL Soil container ( 2 ) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14399 | B1 0-2 | S | 12.28.12 | | X | X | X | X | | 1 | 1 | | | | | | | |
| 14400 | B1 10-12 | | | | | | | | | | | | | | | | | |
| 14401 | B2 0-2 | | | | | | | | | | | | | | | | | |
| 14402 | B2 10-12 | | | | | | | | | | | | | | | | | |
| 14403 | B3 0-2 | | | | | | | | | | | | | | | | | |
| 14404 | B3 10-12 | | | | | | | | | | | | | | | | | |
| 14405 | B4 0-2 | | | | | | | | | | | | | | | | | |
| 14406 | B4 10-12 | | | | | | | | | | | | | | | | | |
| 14407 | B5 0-2 | | | | | | | | | | | | | | | | | |
| 14408 | B5 10-12 | | | | | | | | | | | | | | | | | |
| 14409 | B6 0-2 | | | | | | | | | | | | | | | | | |
| 14410 | B6 10-12 | | | | | | | | | | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 1-2-13 | 10:40 |
| | | 1-2-13 | 15:12 |
| | | | |

**Comments, Special Requirements or Regulations:**

**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.

**Tuesday, January 08, 2013**

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

**Project ID: 683 MARCY AVE.**
**Sample ID#s: BD14394 - BD14398**

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

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

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

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

**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**

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

January 08, 2013

SDG I.D.: GBD14394

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BD14394 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14395 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14396 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14397 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BD14398 - 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

January 08, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14394
Phoenix ID: BD14394

Project ID: 683 MARCY AVE.
Client ID: B7 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 6020 | 53 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 1.8 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 47.4 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.30 | 0.28 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 2310 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 4.17 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 14.7 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 17.9 | 0.35 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 11300 | 53 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 0.08 | 0.06 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 746 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 1760 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 216 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 74.0 | 5.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 10.9 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 52.0 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.5 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 20.3 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 49.1 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 92 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B7 0-2

Phoenix I.D.: BD14394

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 70 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 67 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | 2.7 | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | 74 | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.9 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 68 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 60 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B7 0-2

Phoenix I.D.: BD14394

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Benzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromoform | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroform | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Styrene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.4 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 104 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 87 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 102 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 96 | | % | 01/02/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 560 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B7 0-2

Phoenix I.D.: BD14394

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | 380 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 420 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | 300 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 360 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 530 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | 390 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 730 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | 850 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 720 | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 98 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 99 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 89 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 110 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE. Phoenix I.D.: BD14394

Client ID: B7 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 98 | | % | 01/03/13 | 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.

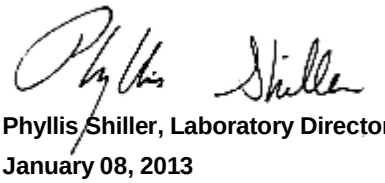
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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



**Phyllis Shiller, Laboratory Director**

**January 08, 2013**

**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

January 08, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14394
Phoenix ID: BD14395

Project ID: 683 MARCY AVE.
Client ID: B7 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 9170 | 50 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 1.7 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 49.7 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.55 | 0.27 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 2210 | 5.0 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 7.40 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 26.9 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 28.9 | 0.34 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 18900 | 50 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.07 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 2960 | 5.0 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 4860 | 50 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 343 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 258 | 5.0 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 29.7 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 10.9 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.4 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.3 | 1.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.5 | 0.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 41.9 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 53.2 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 94 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B7 10-12

Phoenix I.D.: BD14395

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 60 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.8 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.4 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 72 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 54 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B7 10-12

Phoenix I.D.: BD14395

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Benzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromoform | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroform | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Styrene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 100 | | % | 01/02/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B7 10-12

Phoenix I.D.: BD14395

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 420 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 520 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 110 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 94 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 100 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 82 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 103 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B7 10-12

Phoenix I.D.: BD14395

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 94 | | % | 01/03/13 | 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.

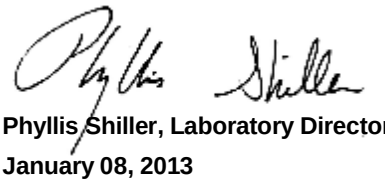
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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



**Phyllis Shiller, Laboratory Director**
**January 08, 2013**
**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

January 08, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14394
Phoenix ID: BD14396

Project ID: 683 MARCY AVE.
Client ID: B8 0-2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 6980 | 52 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 1.9 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 44.9 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.41 | 0.28 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 2730 | 5.2 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.35 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 4.46 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 16.6 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 18.0 | 0.35 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 16400 | 52 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 0.08 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 903 | 5.2 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 2030 | 5.2 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 235 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 93.3 | 5.2 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 11.4 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 33.6 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.5 | 3.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 25.0 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 41.8 | 0.35 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 91 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B8 0-2

Phoenix I.D.: BD14396

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 72 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 72 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | 3.5 | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | 40 | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 7.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.2 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.5 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 35 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 35 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 73 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 63 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B8 0-2

Phoenix I.D.: BD14396

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroform | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Styrene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 86 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 97 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 97 | | % | 01/02/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 570 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B8 0-2

Phoenix I.D.: BD14396

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 430 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 540 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 250 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 360 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 107 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 88 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 96 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 79 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 99 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
Client ID: B8 0-2

Phoenix I.D.: BD14396

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 92 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

**Phyllis Shiller, Laboratory Director**
**January 08, 2013**
**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

January 08, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14394
Phoenix ID: BD14397

Project ID: 683 MARCY AVE.
Client ID: B8 10-12

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 7330 | 51 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 1.5 | 0.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 43.4 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.53 | 0.27 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 1760 | 5.1 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | < 0.34 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 6.98 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 25.3 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 21.5 | 0.34 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 16000 | 51 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | < 0.07 | 0.07 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 2970 | 5.1 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 4910 | 5.1 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 466 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 307 | 5.1 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 30.5 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 10.0 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.4 | 3.4 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.3 | 1.3 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.5 | 0.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 28.5 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 51.9 | 0.34 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 95 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: B8 10-12

Phoenix I.D.: BD14397

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 70 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 78 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 74 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND | 10 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND | 6.7 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 6.7 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND | 6.7 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 6.7 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND | 6.7 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND | 1.0 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND | 2.1 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 3.3 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND | 33 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 73 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 62 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: B8 10-12

Phoenix I.D.: BD14397

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 26 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acetone | ND | 26 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Benzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromoform | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloroform | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 26 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Styrene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.3 | ug/Kg | 01/02/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 97 | | % | 01/02/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 01/02/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 550 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

Project ID: 683 MARCY AVE.
Client ID: B8 10-12

Phoenix I.D.: BD14397

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 420 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 1000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 520 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | ND | 240 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 350 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 108 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | 91 | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 91 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | 78 | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 93 | | % | 01/03/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE.
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Phoenix I.D.: BD14397

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 94 | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

**Phyllis Shiller, Laboratory Director**
**January 08, 2013**
**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

January 08, 2013

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: | | 12/28/12 | 0:00 |
| Location Code: | EBC | Received by: | LB | 01/02/13 | 15:12 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD14394
Phoenix ID: BD14398

Project ID: 683 MARCY AVE.
Client ID: DUPLICATE

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.38 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Aluminum | 6750 | 57 | mg/Kg | 01/03/13 | LK | SW6010 |
| Arsenic | 5.0 | 0.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Barium | 132 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Beryllium | 0.41 | 0.31 | mg/Kg | 01/03/13 | LK | SW6010 |
| Calcium | 5730 | 5.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cadmium | 1.41 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Cobalt | 6.44 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Chromium | 15.2 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Copper | 77.6 | 0.38 | mg/kg | 01/03/13 | LK | SW6010 |
| Iron | 16200 | 57 | mg/Kg | 01/03/13 | LK | SW6010 |
| Mercury | 0.16 | 0.08 | mg/Kg | 01/03/13 | RS | SW-7471 |
| Potassium | 728 | 5.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Magnesium | 3240 | 5.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Manganese | 285 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Sodium | 66.9 | 5.7 | mg/Kg | 01/03/13 | LK | SW6010 |
| Nickel | 20.8 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Lead | 345 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Antimony | < 3.8 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 01/03/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 01/03/13 | LK | SW6010 |
| Vanadium | 30.2 | 0.38 | mg/Kg | 01/03/13 | LK | SW6010 |
| Zinc | 215 | 3.8 | mg/Kg | 01/03/13 | LK | SW6010 |
| Percent Solid | 91 | | % | 01/02/13 | JL | E160.3 |
| Soil Extraction for PCB | Completed | | | 01/02/13 | BB | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 01/02/13 | BB/V | SW3545 |
| Soil Extraction for SVOA | Completed | | | 01/02/13 | JJ/V | SW3545 |
| Mercury Digestion | Completed | | | 01/03/13 | X/X | SW7471 |

Project ID: 683 MARCY AVE.
Client ID: DUPLICATE

Phoenix I.D.: BD14398

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 01/02/13 | AG | SW846 - 3050 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1221 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1232 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1242 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1248 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1254 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1260 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1262 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| PCB-1268 | ND | 71 | ug/Kg | 01/03/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 63 | | % | 01/03/13 | AW | 30 - 150 % | |
| % TCMX | 62 | | % | 01/03/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 21 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 21 | ug/Kg | 01/04/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 21 | ug/Kg | 01/04/13 | MH | SW8081 | |
| a-BHC | ND* | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Alachlor | ND* | 34 | ug/Kg | 01/04/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| b-BHC | ND* | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Chlordane | ND* | 110 | ug/Kg | 01/04/13 | MH | SW8081 | |
| d-BHC | ND* | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Dieldrin | ND* | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan I | ND* | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan II | ND* | 68 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endosulfan sulfate | ND* | 68 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin | ND* | 68 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin aldehyde | ND* | 68 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Endrin ketone | ND* | 68 | ug/Kg | 01/04/13 | MH | SW8081 | |
| g-BHC | ND* | 11 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor | ND* | 21 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Heptachlor epoxide | ND* | 34 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Methoxychlor | ND* | 340 | ug/Kg | 01/04/13 | MH | SW8081 | |
| Toxaphene | ND* | 340 | ug/Kg | 01/04/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 68 | | % | 01/04/13 | MH | 30 - 150 % | |
| % TCMX | 72 | | % | 01/04/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE.
Client ID: DUPLICATE

Phoenix I.D.: BD14398

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acetone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Benzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromoform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloroform | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Styrene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.5 | ug/Kg | 01/03/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 104 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 78 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 104 | | % | 01/03/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 93 | | % | 01/03/13 | R/J | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2,4-Trichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,2-Diphenylhydrazine | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,3-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 1,4-Dichlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,5-Trichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4,6-Trichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dichlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dimethylphenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrophenol | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,4-Dinitrotoluene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2,6-Dinitrotoluene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chloronaphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Chlorophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylnaphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Methylphenol (o-cresol) | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitroaniline | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 2-Nitrophenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3,3'-Dichlorobenzidine | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 3-Nitroaniline | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4,6-Dinitro-2-methylphenol | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Bromophenyl phenyl ether | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloro-3-methylphenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chloroaniline | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Chlorophenyl phenyl ether | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitroaniline | ND | 5700 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| 4-Nitrophenol | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Acetophenone | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Aniline | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Anthracene | 5900 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benz(a)anthracene | 18000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzidine | ND | 4300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(a)pyrene | 16000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | 21000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | 7200 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | 9100 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Benzoic acid | ND | 10000 | ug/Kg | 01/03/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Carbazole | ND | 5300 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Chrysene | 20000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluoranthene | 35000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Fluorene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | 7300 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Isophorone | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Naphthalene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenanthrene | 32000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Phenol | ND | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyrene | 31000 | 2500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| Pyridine | ND | 3500 | ug/Kg | 01/03/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |
| % Phenol-d5 | *Diluted Out | | % | 01/03/13 | DD | 30 - 130 % | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Terphenyl-d14 | *Diluted Out | | % | 01/03/13 | 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.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level

## Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

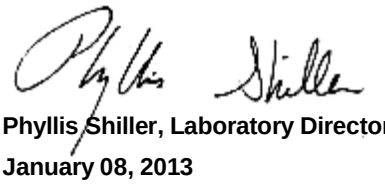
* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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

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

**Phyllis Shiller, Laboratory Director**
**January 08, 2013**
**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

# QA/QC Report

January 08, 2013

## QA/QC Data

SDG I.D.: GBD14394

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 217552, QC Sample No: BD14394 (BD14394, BD14395, BD14396, BD14397, BD14398) | | | | | | | | | | | | | |
| ICP Metals - Soil | | | | | | | | | | | | | |
| Aluminum | BRL | 6020 | 6270 | 4.10 | 83.0 | 87.1 | 4.8 | NC | NC | NC | 75 - 125 | 30 | |
| Antimony | BRL | <3.5 | <3.6 | NC | 81.2 | 81.6 | 0.5 | 91.3 | 91.6 | 0.3 | 75 - 125 | 30 | |
| Arsenic | BRL | 1.8 | 2.22 | NC | 102 | 105 | 2.9 | 93.3 | 95.5 | 2.3 | 75 - 125 | 30 | |
| Barium | BRL | 47.4 | 49.4 | 4.10 | 107 | 121 | 12.3 | 103 | 109 | 5.7 | 75 - 125 | 30 | |
| Beryllium | BRL | 0.30 | 0.31 | NC | 108 | 110 | 1.8 | 98.2 | 99.5 | 1.3 | 75 - 125 | 30 | |
| Cadmium | BRL | <0.35 | <0.36 | NC | 105 | 108 | 2.8 | 97.8 | 99.3 | 1.5 | 75 - 125 | 30 | |
| Calcium | BRL | 2310 | 2170 | 6.30 | 103 | 108 | 4.7 | NC | NC | NC | 75 - 125 | 30 | |
| Chromium | BRL | 14.7 | 14.1 | 4.20 | 109 | 111 | 1.8 | 101 | 104 | 2.9 | 75 - 125 | 30 | |
| Cobalt | BRL | 4.17 | 4.52 | 8.10 | 107 | 109 | 1.9 | 98.2 | 100 | 1.8 | 75 - 125 | 30 | |
| Copper | BRL | 17.9 | 21.6 | 18.7 | 110 | 114 | 3.6 | 104 | 107 | 2.8 | 75 - 125 | 30 | |
| Iron | BRL | 11300 | 12800 | 12.4 | 116 | 120 | 3.4 | NC | NC | NC | 75 - 125 | 30 | |
| Lead | BRL | 52.0 | 56.3 | 7.90 | 105 | 111 | 5.6 | 95.9 | 102 | 6.2 | 75 - 125 | 30 | |
| Magnesium | BRL | 1760 | 1750 | 0.60 | 105 | 108 | 2.8 | NC | NC | NC | 75 - 125 | 30 | |
| Manganese | BRL | 216 | 294 | 30.6 | 105 | 112 | 6.5 | 126 | 116 | 8.3 | 75 - 125 | 30 | m,r |
| Nickel | BRL | 10.9 | 11.5 | 5.40 | 105 | 109 | 3.7 | 96.9 | 98.0 | 1.1 | 75 - 125 | 30 | |
| Potassium | BRL | 746 | 777 | 4.10 | 108 | 112 | 3.6 | >130 | >130 | NC | 75 - 125 | 30 | m |
| Selenium | BRL | <1.4 | <1.4 | NC | 102 | 107 | 4.8 | 88.9 | 90.0 | 1.2 | 75 - 125 | 30 | |
| Silver | BRL | <0.35 | <0.36 | NC | 103 | 105 | 1.9 | 96.2 | 98.0 | 1.9 | 75 - 125 | 30 | |
| Sodium | BRL | 74.0 | 78.1 | 5.40 | 109 | 112 | 2.7 | >130 | 124 | NC | 75 - 125 | 30 | m |
| Thallium | BRL | <0.6 | <3.2 | NC | 105 | 108 | 2.8 | 95.4 | 97.3 | 2.0 | 75 - 125 | 30 | |
| Vanadium | BRL | 20.3 | 21.8 | 7.10 | 113 | 117 | 3.5 | 101 | 105 | 3.9 | 75 - 125 | 30 | |
| Zinc | BRL | 49.1 | 47.1 | 4.20 | 108 | 119 | 9.7 | 95.9 | 101 | 5.2 | 75 - 125 | 30 | |
| QA/QC Batch 217598, QC Sample No: BD14394 (BD14394, BD14395, BD14396, BD14397, BD14398) | | | | | | | | | | | | | |
| Mercury - Soil | BRL | 0.08 | 0.07 | NC | 91.1 | 96.7 | 6.0 | 103 | 92.8 | 10.4 | 70 - 130 | 30 | |

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

January 08, 2013

## QA/QC Data

SDG I.D.: GBD14394

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 217477, QC Sample No: BD14094 (BD14394, BD14395, BD14396, BD14397, BD14398) | | | | | | | | | |
| **Polychlorinated Biphenyls - Soil** | | | | | | | | | |
| PCB-1016 | ND | 77 | 77 | 0.0 | 71 | 80 | 11.9 | 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 | 73 | 74 | 1.4 | 57 | 72 | 23.3 | 40 - 140 | 30 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 30 |
| % DCBP (Surrogate Rec) | 66 | 75 | 74 | 1.3 | 76 | 96 | 23.3 | 30 - 150 | 30 |
| % TCMX (Surrogate Rec) | 71 | 82 | 78 | 5.0 | 75 | 76 | 1.3 | 30 - 150 | 30 |
| QA/QC Batch 217650, QC Sample No: BD14136 (BD14394, BD14395, BD14396, BD14397) | | | | | | | | | |
| **Volatiles - Soil** | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 103 | 109 | 5.7 | 102 | 106 | 3.8 | 70 - 130 | 30 |
| 1,1,1-Trichloroethane | ND | 84 | 91 | 8.0 | 87 | 88 | 1.1 | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 102 | 109 | 6.6 | 107 | 109 | 1.9 | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 94 | 93 | 1.1 | 94 | 93 | 1.1 | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 85 | 89 | 4.6 | 88 | 87 | 1.1 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 81 | 95 | 15.9 | 83 | 93 | 11.4 | 70 - 130 | 30 |
| 1,1-Dichloropropene | ND | 87 | 96 | 9.8 | 89 | 91 | 2.2 | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 116 | 109 | 6.2 | 100 | 97 | 3.0 | 70 - 130 | 30 |
| 1,2,3-Trichloropropane | ND | 97 | 96 | 1.0 | 104 | 113 | 8.3 | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 113 | 112 | 0.9 | 92 | 92 | 0.0 | 70 - 130 | 30 |
| 1,2,4-Trimethylbenzene | ND | 108 | 117 | 8.0 | 100 | 106 | 5.8 | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 114 | 112 | 1.8 | 111 | 113 | 1.8 | 70 - 130 | 30 |
| 1,2-Dibromoethane | ND | 90 | 89 | 1.1 | 94 | 92 | 2.2 | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 107 | 113 | 5.5 | 101 | 104 | 2.9 | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 89 | 90 | 1.1 | 94 | 93 | 1.1 | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 89 | 92 | 3.3 | 91 | 92 | 1.1 | 70 - 130 | 30 |
| 1,3,5-Trimethylbenzene | ND | 105 | 115 | 9.1 | 101 | 107 | 5.8 | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 108 | 116 | 7.1 | 98 | 103 | 5.0 | 70 - 130 | 30 |
| 1,3-Dichloropropane | ND | 103 | 104 | 1.0 | 106 | 107 | 0.9 | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 107 | 115 | 7.2 | 97 | 101 | 4.0 | 70 - 130 | 30 |
| 2,2-Dichloropropane | ND | 86 | 94 | 8.9 | 85 | 86 | 1.2 | 70 - 130 | 30 |
| 2-Chlorotoluene | ND | 104 | 115 | 10.0 | 99 | 105 | 5.9 | 70 - 130 | 30 |
| 2-Hexanone | ND | 91 | 91 | 0.0 | 95 | 97 | 2.1 | 70 - 130 | 30 |
| 2-Isopropyltoluene | ND | 106 | 113 | 6.4 | 104 | 108 | 3.8 | 70 - 130 | 30 |
| 4-Chlorotoluene | ND | 104 | 115 | 10.0 | 99 | 105 | 5.9 | 70 - 130 | 30 |
| 4-Methyl-2-pentanone | ND | 88 | 84 | 4.7 | 94 | 92 | 2.2 | 70 - 130 | 30 |
| Acetone | ND | 73 | 80 | 9.2 | 70 | 74 | 5.6 | 70 - 130 | 30 |
| Acrylonitrile | ND | 88 | 84 | 4.7 | 94 | 87 | 7.7 | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBD14394

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 88 | 92 | 4.4 | 91 | 92 | 1.1 | 70 - 130 | 30 |
| Bromobenzene | ND | 104 | 112 | 7.4 | 103 | 107 | 3.8 | 70 - 130 | 30 |
| Bromochloromethane | ND | 86 | 86 | 0.0 | 87 | 86 | 1.2 | 70 - 130 | 30 |
| Bromodichloromethane | ND | 92 | 94 | 2.2 | 92 | 92 | 0.0 | 70 - 130 | 30 |
| Bromoform | ND | 108 | 110 | 1.8 | 104 | 108 | 3.8 | 70 - 130 | 30 |
| Bromomethane | ND | 80 | 86 | 7.2 | 84 | 85 | 1.2 | 70 - 130 | 30 |
| Carbon Disulfide | ND | 72 | 87 | 18.9 | 83 | 92 | 10.3 | 70 - 130 | 30 |
| Carbon tetrachloride | ND | 90 | 97 | 7.5 | 90 | 94 | 4.3 | 70 - 130 | 30 |
| Chlorobenzene | ND | 100 | 107 | 6.8 | 98 | 102 | 4.0 | 70 - 130 | 30 |
| Chloroethane | ND | 80 | 100 | 22.2 | 82 | 94 | 13.6 | 70 - 130 | 30 |
| Chloroform | ND | 86 | 89 | 3.4 | 88 | 86 | 2.3 | 70 - 130 | 30 |
| Chloromethane | ND | 85 | 90 | 5.7 | 83 | 83 | 0.0 | 70 - 130 | 30 |
| cis-1,2-Dichloroethene | ND | 88 | 89 | 1.1 | 89 | 85 | 4.6 | 70 - 130 | 30 |
| cis-1,3-Dichloropropene | ND | 90 | 92 | 2.2 | 90 | 89 | 1.1 | 70 - 130 | 30 |
| Dibromochloromethane | ND | 109 | 111 | 1.8 | 103 | 107 | 3.8 | 70 - 130 | 30 |
| Dibromomethane | ND | 93 | 90 | 3.3 | 93 | 90 | 3.3 | 70 - 130 | 30 |
| Dichlorodifluoromethane | ND | 91 | 103 | 12.4 | 80 | 83 | 3.7 | 70 - 130 | 30 |
| Ethylbenzene | ND | 98 | 106 | 7.8 | 99 | 104 | 4.9 | 70 - 130 | 30 |
| Hexachlorobutadiene | ND | 107 | 109 | 1.9 | 102 | 98 | 4.0 | 70 - 130 | 30 |
| Isopropylbenzene | ND | 105 | 117 | 10.8 | 103 | 110 | 6.6 | 70 - 130 | 30 |
| m&p-Xylene | ND | 99 | 107 | 7.8 | 98 | 101 | 3.0 | 70 - 130 | 30 |
| Methyl ethyl ketone | ND | 68 | 63 | 7.6 | 79 | 73 | 7.9 | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND | 88 | 85 | 3.5 | 91 | 89 | 2.2 | 70 - 130 | 30 |
| Methylene chloride | ND | 76 | 86 | 12.3 | 78 | 85 | 8.6 | 70 - 130 | 30 |
| Naphthalene | ND | 125 | 103 | 19.3 | 112 | 101 | 10.3 | 70 - 130 | 30 |
| n-Butylbenzene | ND | 110 | 120 | 8.7 | 98 | 103 | 5.0 | 70 - 130 | 30 |
| n-Propylbenzene | ND | 110 | 121 | 9.5 | 101 | 107 | 5.8 | 70 - 130 | 30 |
| o-Xylene | ND | 100 | 110 | 9.5 | 100 | 103 | 3.0 | 70 - 130 | 30 |
| p-Isopropyltoluene | ND | 109 | 120 | 9.6 | 99 | 105 | 5.9 | 70 - 130 | 30 |
| sec-Butylbenzene | ND | 105 | 115 | 9.1 | 103 | 109 | 5.7 | 70 - 130 | 30 |
| Styrene | ND | 96 | 107 | 10.8 | 98 | 103 | 5.0 | 70 - 130 | 30 |
| tert-Butylbenzene | ND | 106 | 116 | 9.0 | 105 | 110 | 4.7 | 70 - 130 | 30 |
| Tetrachloroethene | ND | 100 | 112 | 11.3 | 97 | 102 | 5.0 | 70 - 130 | 30 |
| Tetrahydrofuran (THF) | ND | 84 | 79 | 6.1 | 93 | 87 | 6.7 | 70 - 130 | 30 |
| Toluene | ND | 88 | 93 | 5.5 | 89 | 91 | 2.2 | 70 - 130 | 30 |
| trans-1,2-Dichloroethene | ND | 88 | 88 | 0.0 | 89 | 85 | 4.6 | 70 - 130 | 30 |
| trans-1,3-Dichloropropene | ND | 90 | 92 | 2.2 | 90 | 89 | 1.1 | 70 - 130 | 30 |
| trans-1,4-dichloro-2-butene | ND | 110 | 114 | 3.6 | 110 | 111 | 0.9 | 70 - 130 | 30 |
| Trichloroethene | ND | 92 | 97 | 5.3 | 91 | 94 | 3.2 | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 90 | 98 | 8.5 | 87 | 90 | 3.4 | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 85 | 99 | 15.2 | 83 | 90 | 8.1 | 70 - 130 | 30 |
| Vinyl chloride | ND | 85 | 88 | 3.5 | 85 | 82 | 3.6 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 101 | 100 | 99 | 1.0 | 100 | 99 | 1.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 92 | 96 | 96 | 0.0 | 99 | 98 | 1.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 97 | 99 | 96 | 3.1 | 99 | 98 | 1.0 | 70 - 130 | 30 |
| % Toluene-d8 | 99 | 99 | 98 | 1.0 | 99 | 98 | 1.0 | 70 - 130 | 30 |
| QA/QC Batch 217547, QC Sample No: BD14395 (BD14394, BD14395, BD14396, BD14397, BD14398) | | | | | | | | | |
| **Semivolatiles - Soil** | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 90 | 87 | 3.4 | 90 | 89 | 1.1 | 30 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 81 | 78 | 3.8 | 82 | 80 | 2.5 | 30 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 81 | 79 | 2.5 | 82 | 79 | 3.7 | 30 - 130 | 30 |
| 1,2-Diphenylhydrazine | ND | 94 | 89 | 5.5 | 92 | 86 | 6.7 | 30 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBD14394

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 74 | 72 | 2.7 | 75 | 73 | 2.7 | 30 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 79 | 77 | 2.6 | 80 | 77 | 3.8 | 30 - 130 | 30 | |
| 2,4,5-Trichlorophenol | ND | 97 | 95 | 2.1 | 97 | 97 | 0.0 | 30 - 130 | 30 | |
| 2,4,6-Trichlorophenol | ND | 101 | 99 | 2.0 | 102 | 100 | 2.0 | 30 - 130 | 30 | |
| 2,4-Dichlorophenol | ND | 91 | 88 | 3.4 | 92 | 90 | 2.2 | 30 - 130 | 30 | |
| 2,4-Dimethylphenol | ND | 64 | 58 | 9.8 | 64 | 64 | 0.0 | 30 - 130 | 30 | |
| 2,4-Dinitrophenol | ND | <5 | 59 | NC | 21 | 35 | 50.0 | 30 - 130 | 30 | l,m,r |
| 2,4-Dinitrotoluene | ND | 98 | 93 | 5.2 | 96 | 100 | 4.1 | 30 - 130 | 30 | |
| 2,6-Dinitrotoluene | ND | 94 | 90 | 4.3 | 93 | 96 | 3.2 | 30 - 130 | 30 | |
| 2-Chloronaphthalene | ND | 87 | 85 | 2.3 | 88 | 87 | 1.1 | 30 - 130 | 30 | |
| 2-Chlorophenol | ND | 78 | 76 | 2.6 | 79 | 78 | 1.3 | 30 - 130 | 30 | |
| 2-Methylnaphthalene | ND | 83 | 79 | 4.9 | 84 | 86 | 2.4 | 30 - 130 | 30 | |
| 2-Methylphenol (o-cresol) | ND | 84 | 82 | 2.4 | 87 | 87 | 0.0 | 30 - 130 | 30 | |
| 2-Nitroaniline | ND | 138 | 130 | 6.0 | 129 | 136 | 5.3 | 30 - 130 | 30 | l,m |
| 2-Nitrophenol | ND | 80 | 83 | 3.7 | 84 | 82 | 2.4 | 30 - 130 | 30 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 90 | 86 | 4.5 | 89 | 88 | 1.1 | 30 - 130 | 30 | |
| 3,3'-Dichlorobenzidine | ND | 115 | 104 | 10.0 | 96 | 105 | 9.0 | 30 - 130 | 30 | |
| 3-Nitroaniline | ND | 93 | 88 | 5.5 | 91 | 92 | 1.1 | 30 - 130 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 52 | 105 | 67.5 | 94 | 114 | 19.2 | 30 - 130 | 30 | r |
| 4-Bromophenyl phenyl ether | ND | 90 | 89 | 1.1 | 91 | 89 | 2.2 | 30 - 130 | 30 | |
| 4-Chloro-3-methylphenol | ND | 96 | 90 | 6.5 | 92 | 92 | 0.0 | 30 - 130 | 30 | |
| 4-Chloroaniline | ND | 111 | 102 | 8.5 | 103 | 111 | 7.5 | 30 - 130 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 90 | 86 | 4.5 | 89 | 91 | 2.2 | 30 - 130 | 30 | |
| 4-Nitroaniline | ND | 93 | 88 | 5.5 | 91 | 92 | 1.1 | 30 - 130 | 30 | |
| 4-Nitrophenol | ND | 66 | 10 | 147.4 | 13 | 11 | 16.7 | 30 - 130 | 30 | l,m,r |
| Acenaphthene | ND | 106 | 102 | 3.8 | 108 | 106 | 1.9 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 87 | 84 | 3.5 | 88 | 88 | 0.0 | 30 - 130 | 30 | |
| Acetophenone | ND | 85 | 82 | 3.6 | 85 | 84 | 1.2 | 30 - 130 | 30 | |
| Aniline | ND | >150 | 143 | NC | 121 | 132 | 8.7 | 30 - 130 | 30 | l,m |
| Anthracene | ND | 108 | 106 | 1.9 | 109 | 109 | 0.0 | 30 - 130 | 30 | |
| Benz(a)anthracene | ND | 110 | 107 | 2.8 | 110 | 111 | 0.9 | 30 - 130 | 30 | |
| Benzidine | ND | <5 | <5 | NC | <5 | <5 | NC | 30 - 130 | 30 | l,m |
| Benzo(a)pyrene | ND | 104 | 101 | 2.9 | 103 | 104 | 1.0 | 30 - 130 | 30 | |
| Benzo(b)fluoranthene | ND | 109 | 105 | 3.7 | 110 | 114 | 3.6 | 30 - 130 | 30 | |
| Benzo(ghi)perylene | ND | 123 | 119 | 3.3 | 120 | 117 | 2.5 | 30 - 130 | 30 | |
| Benzo(k)fluoranthene | ND | 104 | 104 | 0.0 | 103 | 110 | 6.6 | 30 - 130 | 30 | |
| Benzyl butyl phthalate | ND | 88 | 84 | 4.7 | 86 | 89 | 3.4 | 30 - 130 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 82 | 79 | 3.7 | 83 | 82 | 1.2 | 30 - 130 | 30 | |
| Bis(2-chloroethyl)ether | ND | 66 | 63 | 4.7 | 67 | 66 | 1.5 | 30 - 130 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 78 | 74 | 5.3 | 78 | 78 | 0.0 | 30 - 130 | 30 | |
| Bis(2-ethylhexyl)phthalate | ND | 86 | 82 | 4.8 | 84 | 85 | 1.2 | 30 - 130 | 30 | |
| Carbazole | ND | >150 | >150 | NC | >150 | >150 | NC | 30 - 130 | 30 | l,m |
| Chrysene | ND | 106 | 104 | 1.9 | 108 | 108 | 0.0 | 30 - 130 | 30 | |
| Dibenz(a,h)anthracene | ND | 123 | 120 | 2.5 | 122 | 122 | 0.0 | 30 - 130 | 30 | |
| Dibenzofuran | ND | 92 | 88 | 4.4 | 91 | 92 | 1.1 | 30 - 130 | 30 | |
| Diethyl phthalate | ND | 94 | 89 | 5.5 | 92 | 97 | 5.3 | 30 - 130 | 30 | |
| Dimethylphthalate | ND | 91 | 86 | 5.6 | 90 | 93 | 3.3 | 30 - 130 | 30 | |
| Di-n-butylphthalate | ND | 91 | 87 | 4.5 | 89 | 92 | 3.3 | 30 - 130 | 30 | |
| Di-n-octylphthalate | ND | 92 | 89 | 3.3 | 91 | 89 | 2.2 | 30 - 130 | 30 | |
| Fluoranthene | ND | 101 | 97 | 4.0 | 100 | 101 | 1.0 | 30 - 130 | 30 | |
| Fluorene | ND | 110 | 105 | 4.7 | 109 | 112 | 2.7 | 30 - 130 | 30 | |
| Hexachlorobenzene | ND | 87 | 86 | 1.2 | 87 | 87 | 0.0 | 30 - 130 | 30 | |
| Hexachlorobutadiene | ND | 85 | 82 | 3.6 | 85 | 84 | 1.2 | 30 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD14394

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | ND | 107 | 101 | 5.8 | 106 | 101 | 4.8 | 30 - 130 | 30 | |
| Hexachloroethane | ND | 80 | 78 | 2.5 | 81 | 79 | 2.5 | 30 - 130 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 137 | 133 | 3.0 | 121 | 133 | 9.4 | 30 - 130 | 30 | l,m |
| Isophorone | ND | 87 | 83 | 4.7 | 86 | 87 | 1.2 | 30 - 130 | 30 | |
| Naphthalene | ND | 85 | 81 | 4.8 | 86 | 83 | 3.6 | 30 - 130 | 30 | |
| Nitrobenzene | ND | 86 | 83 | 3.6 | 86 | 84 | 2.4 | 30 - 130 | 30 | |
| N-Nitrosodimethylamine | ND | 52 | 49 | 5.9 | 50 | 47 | 6.2 | 30 - 130 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 84 | 80 | 4.9 | 84 | 81 | 3.6 | 30 - 130 | 30 | |
| N-Nitrosodiphenylamine | ND | 106 | 100 | 5.8 | 101 | 107 | 5.8 | 30 - 130 | 30 | |
| Pentachloronitrobenzene | ND | 100 | 100 | 0.0 | 100 | 101 | 1.0 | 30 - 130 | 30 | |
| Pentachlorophenol | ND | 110 | 126 | 13.6 | 77 | 61 | 23.2 | 30 - 130 | 30 | |
| Phenanthrene | ND | 110 | 108 | 1.8 | 111 | 110 | 0.9 | 30 - 130 | 30 | |
| Phenol | ND | 77 | 73 | 5.3 | 77 | 73 | 5.3 | 30 - 130 | 30 | |
| Pyrene | ND | 116 | 112 | 3.5 | 116 | 117 | 0.9 | 30 - 130 | 30 | |
| Pyridine | ND | 42 | 41 | 2.4 | 24 | 30 | 22.2 | 30 - 130 | 30 | m |
| % 2,4,6-Tribromophenol | 106 | 105 | 105 | 0.0 | 98 | 103 | 5.0 | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 81 | 84 | 83 | 1.2 | 86 | 86 | 0.0 | 30 - 130 | 30 | |
| % 2-Fluorophenol | 71 | 73 | 73 | 0.0 | 75 | 73 | 2.7 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 84 | 84 | 82 | 2.4 | 83 | 82 | 1.2 | 30 - 130 | 30 | |
| % Phenol-d5 | 76 | 83 | 81 | 2.4 | 82 | 81 | 1.2 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 101 | 103 | 101 | 2.0 | 101 | 105 | 3.9 | 30 - 130 | 30 | |
| QA/QC Batch 217761, QC Sample No: BD14398 (BD14398 (50, 1X) ) | | | | | | | | | | |
| **Volatiles - Soil** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 103 | 108 | 4.7 | 104 | 103 | 1.0 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 86 | 89 | 3.4 | 91 | 90 | 1.1 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 102 | 104 | 1.9 | 108 | 102 | 5.7 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 94 | 93 | 1.1 | 93 | 88 | 5.5 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 86 | 88 | 2.3 | 93 | 89 | 4.4 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 80 | 89 | 10.7 | 90 | 96 | 6.5 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 88 | 92 | 4.4 | 97 | 97 | 0.0 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 113 | 103 | 9.3 | 114 | 99 | 14.1 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 101 | 96 | 5.1 | 100 | 89 | 11.6 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 107 | 100 | 6.8 | 114 | 103 | 10.1 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 109 | 113 | 3.6 | 112 | 112 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 113 | 109 | 3.6 | 102 | 94 | 8.2 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 91 | 89 | 2.2 | 91 | 86 | 5.6 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 106 | 108 | 1.9 | 110 | 108 | 1.8 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 91 | 90 | 1.1 | 93 | 89 | 4.4 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 91 | 91 | 0.0 | 94 | 91 | 3.2 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 107 | 112 | 4.6 | 112 | 112 | 0.0 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 107 | 110 | 2.8 | 112 | 110 | 1.8 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 104 | 105 | 1.0 | 106 | 102 | 3.8 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 106 | 108 | 1.9 | 111 | 109 | 1.8 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 88 | 89 | 1.1 | 88 | 86 | 2.3 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 105 | 107 | 1.9 | 112 | 110 | 1.8 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 95 | 93 | 2.1 | 81 | 76 | 6.4 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 106 | 110 | 3.7 | 117 | 118 | 0.9 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 105 | 107 | 1.9 | 112 | 110 | 1.8 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 89 | 86 | 3.4 | 89 | 82 | 8.2 | 70 - 130 | 30 | |
| Acetone | ND | 71 | 72 | 1.4 | 42 | 40 | 4.9 | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 90 | 84 | 6.9 | 97 | 84 | 14.4 | 70 - 130 | 30 | |
| Benzene | ND | 90 | 91 | 1.1 | 96 | 94 | 2.1 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD14394

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | ND | 105 | 108 | 2.8 | 108 | 106 | 1.9 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 85 | 87 | 2.3 | 90 | 84 | 6.9 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 93 | 93 | 0.0 | 91 | 87 | 4.5 | 70 - 130 | 30 | |
| Bromoform | ND | 106 | 108 | 1.9 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| Bromomethane | ND | 86 | 85 | 1.2 | 70 | 63 | 10.5 | 70 - 130 | 30 | m |
| Carbon Disulfide | ND | 70 | 80 | 13.3 | 91 | 100 | 9.4 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 91 | 94 | 3.2 | 89 | 91 | 2.2 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 102 | 105 | 2.9 | 107 | 106 | 0.9 | 70 - 130 | 30 | |
| Chloroethane | ND | 81 | 93 | 13.8 | <40 | <40 | NC | 70 - 130 | 30 | m |
| Chloroform | ND | 88 | 88 | 0.0 | 91 | 87 | 4.5 | 70 - 130 | 30 | |
| Chloromethane | ND | 83 | 84 | 1.2 | 102 | 96 | 6.1 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 89 | 88 | 1.1 | 93 | 87 | 6.7 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 92 | 91 | 1.1 | 90 | 88 | 2.2 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 107 | 109 | 1.9 | 100 | 98 | 2.0 | 70 - 130 | 30 | |
| Dibromomethane | ND | 93 | 91 | 2.2 | 93 | 87 | 6.7 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 85 | 88 | 3.5 | 110 | 107 | 2.8 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 100 | 103 | 3.0 | 109 | 110 | 0.9 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 105 | 102 | 2.9 | 117 | 109 | 7.1 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 108 | 114 | 5.4 | 111 | 112 | 0.9 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 101 | 104 | 2.9 | 109 | 109 | 0.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 68 | 64 | 6.1 | 67 | 57 | 16.1 | 70 - 130 | 30 | l,m |
| Methyl t-butyl ether (MTBE) | ND | 88 | 85 | 3.5 | 92 | 87 | 5.6 | 70 - 130 | 30 | |
| Methylene chloride | ND | 75 | 83 | 10.1 | 79 | 84 | 6.1 | 70 - 130 | 30 | |
| Naphthalene | ND | 124 | 98 | 23.4 | 117 | 92 | 23.9 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 109 | 111 | 1.8 | 118 | 117 | 0.9 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 110 | 114 | 3.6 | 113 | 114 | 0.9 | 70 - 130 | 30 | |
| o-Xylene | ND | 102 | 105 | 2.9 | 111 | 110 | 0.9 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 109 | 114 | 4.5 | 114 | 114 | 0.0 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 106 | 110 | 3.7 | 114 | 115 | 0.9 | 70 - 130 | 30 | |
| Styrene | ND | 97 | 102 | 5.0 | 108 | 110 | 1.8 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 109 | 113 | 3.6 | 112 | 113 | 0.9 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 100 | 105 | 4.9 | 110 | 113 | 2.7 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 85 | 82 | 3.6 | 90 | 79 | 13.0 | 70 - 130 | 30 | |
| Toluene | ND | 89 | 91 | 2.2 | 95 | 95 | 0.0 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 87 | 86 | 1.2 | 95 | 90 | 5.4 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 91 | 89 | 2.2 | 91 | 85 | 6.8 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 111 | 110 | 0.9 | 109 | 102 | 6.6 | 70 - 130 | 30 | |
| Trichloroethene | ND | 94 | 95 | 1.1 | 93 | 92 | 1.1 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 88 | 92 | 4.4 | NC | NC | NC | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 84 | 91 | 8.0 | 94 | 101 | 7.2 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 83 | 82 | 1.2 | 91 | 86 | 5.6 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 98 | 99 | 99 | 0.0 | 99 | 97 | 2.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 94 | 97 | 96 | 1.0 | 97 | 98 | 1.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 95 | 96 | 96 | 0.0 | 98 | 94 | 4.2 | 70 - 130 | 30 | |
| % Toluene-d8 | 98 | 98 | 99 | 1.0 | 98 | 98 | 0.0 | 70 - 130 | 30 | |

QA/QC Batch 217548, QC Sample No: BD14407 (BD14394, BD14395, BD14396, BD14397, BD14398)

## Pesticides - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4,4' -DDD | ND | 61 | 70 | 13.7 | 69 | 67 | 2.9 | 40 - 140 | 30 | |
| 4,4' -DDE | ND | 64 | 73 | 13.1 | 73 | 69 | 5.6 | 40 - 140 | 30 | |
| 4,4' -DDT | ND | 61 | 68 | 10.9 | 76 | 73 | 4.0 | 40 - 140 | 30 | |
| a-BHC | ND | 70 | 80 | 13.3 | 75 | 73 | 2.7 | 40 - 140 | 30 | |
| a-Chlordane | ND | 66 | 75 | 12.8 | 72 | 69 | 4.3 | 40 - 140 | 30 | |

# QA/QC Data

SDG I.D.: GBD14394

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Alachlor | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 | |
| Aldrin | ND | 67 | 77 | 13.9 | 72 | 69 | 4.3 | 40 - 140 | 30 | |
| b-BHC | ND | 63 | 72 | 13.3 | 64 | 65 | 1.6 | 40 - 140 | 30 | |
| Chlordane | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 | |
| d-BHC | ND | 66 | 73 | 10.1 | 70 | 70 | 0.0 | 40 - 140 | 30 | |
| Dieldrin | ND | 66 | 74 | 11.4 | 72 | 73 | 1.4 | 40 - 140 | 30 | |
| Endosulfan I | ND | 66 | 76 | 14.1 | 70 | 68 | 2.9 | 40 - 140 | 30 | |
| Endosulfan II | ND | 59 | 70 | 17.1 | 70 | 69 | 1.4 | 40 - 140 | 30 | |
| Endosulfan sulfate | ND | 61 | 70 | 13.7 | 69 | 67 | 2.9 | 40 - 140 | 30 | |
| Endrin | ND | 57 | 62 | 8.4 | 72 | 71 | 1.4 | 40 - 140 | 30 | |
| Endrin aldehyde | ND | 62 | 86 | 32.4 | 81 | 81 | 0.0 | 40 - 140 | 30 | r |
| Endrin ketone | ND | 72 | 81 | 11.8 | 76 | 74 | 2.7 | 40 - 140 | 30 | |
| g-BHC | ND | 69 | 78 | 12.2 | 74 | 73 | 1.4 | 40 - 140 | 30 | |
| g-Chlordane | ND | 67 | 75 | 11.3 | 75 | 71 | 5.5 | 40 - 140 | 30 | |
| Heptachlor | ND | 66 | 75 | 12.8 | 71 | 69 | 2.9 | 40 - 140 | 30 | |
| Heptachlor epoxide | ND | 67 | 75 | 11.3 | 71 | 69 | 2.9 | 40 - 140 | 30 | |
| Methoxychlor | ND | 61 | 65 | 6.3 | 65 | 63 | 3.1 | 40 - 140 | 30 | |
| Toxaphene | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 | |
| % DCBP | 59 | 61 | 71 | 15.2 | 67 | 71 | 5.8 | 30 - 150 | 30 | |
| % TCMX | 68 | 70 | 79 | 12.1 | 72 | 72 | 0.0 | 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.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
January 08, 2013

# Sample Criteria Exceedences Report

## GBD14394 - EBC

Requested Criteria: 375, 375RS

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD14396 | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | 3.5 | 2.2 | 3.3 | 3.3 | ug/Kg |
| BD14397 | NI-SM | Nickel | NY / 375-6.8 Metals / Unrestricted Use Soil | 30.5 | 0.34 | 30 | 30 | mg/Kg |
| BD14398 | $8270-SMR | Phenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14398 | $8270-SMR | 2-Methylphenol (o-cresol) | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14398 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Residential | ND | 3500 | 2400 | 2400 | ug/Kg |
| BD14398 | $8270-SMR | Pentachlorophenol | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 3500 | 800 | 800 | ug/Kg |
| BD14398 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Residential | 18000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Benz(a)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 18000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Residential | 20000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Chrysene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 20000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 21000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Benzo(b)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 21000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Residential | 9100 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Benzo(k)fluoranthene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 9100 | 2500 | 800 | 800 | ug/Kg |
| BD14398 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Residential | 16000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Benzo(a)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 16000 | 2500 | 1000 | 1000 | ug/Kg |
| BD14398 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Residential | 7300 | 2500 | 500 | 500 | ug/Kg |
| BD14398 | $8270-SMR | Indeno(1,2,3-cd)pyrene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | 7300 | 2500 | 500 | 500 | ug/Kg |
| BD14398 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Residential | ND | 2500 | 330 | 330 | ug/Kg |
| BD14398 | $8270-SMR | Dibenz(a,h)anthracene | NY / 375-6.8 Semivolatiles / Unrestricted Use Soil | ND | 2500 | 330 | 330 | ug/Kg |
| BD14398 | $PEST_SMR | a-BHC | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 34 | 20 | 20 | ug/Kg |
| BD14398 | $PEST_SMR | Aldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 11 | 5 | 5 | ug/Kg |
| BD14398 | $PEST_SMR | 4,4' -DDE | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 21 | 3.3 | 3.3 | ug/Kg |
| BD14398 | $PEST_SMR | Dieldrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 11 | 5 | 5 | ug/Kg |
| BD14398 | $PEST_SMR | Endrin | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 68 | 14 | 14 | ug/Kg |
| BD14398 | $PEST_SMR | 4,4' -DDD | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 21 | 3.3 | 3.3 | ug/Kg |
| BD14398 | $PEST_SMR | 4,4' -DDT | NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil | ND* | 21 | 3.3 | 3.3 | ug/Kg |
| BD14398 | CU-SM | Copper | NY / 375-6.8 Metals / Unrestricted Use Soil | 77.6 | 0.38 | 50 | 50 | mg/kg |
| BD14398 | PB-SM | Lead | NY / 375-6.8 Metals / Unrestricted Use Soil | 345 | 3.8 | 63 | 63 | mg/Kg |
| BD14398 | ZN-SM | Zinc | NY / 375-6.8 Metals / Unrestricted Use Soil | 215 | 3.8 | 109 | 109 | mg/Kg |

**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

# NY Temperature Narration

**January 08, 2013**

**SDG I.D.: GBD14394**

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

# PHOENIX
*Environmental Laboratories, Inc.*

## NY/NJ CHAIN OF CUSTODY RECORD

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

Temp 4° Pg 2 of 2

**Data Delivery:**
☐ Fax #:
☒ Email: csosik@ebcincny.com

WIC + EDP

Customer: EBC
Address: 1808 Middle Country Rd. Ridge, NY, 11961

Project: 683 Marcy Ave
Report to: EBC
Invoice to:

Project P.O:
Phone #: 631-504-6000
Fax #:

**Client Sample - Information - Identification**

Sampler's Signature

Date: 12.28.12

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Analysis Request: VOCs 8260 | SVOCs 8270 | Pest/PCBs 8081/8082 | TAL Metals 6010 | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( 8 ) oz | GL Soil container ( 2 ) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14394 | B7 0-2 | S | 12.28.12 | | X | X | X | X | | 1 | 1 | | | | | | | |
| 14395 | B7 10-12 | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 14396 | B8 0-2 | | | | | | | | | | | | | | | | | |
| 14397 | B8 10-12 | | | | | | | | | | | | | | | | | |
| 14398 | Duplicate | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 1-2-12 | 10:10 |
| | T. Colemsby | 1-3-12 | 15:12 |
| | | | |

**Comments, Special Requirements or Regulations:**

**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.

**Monday, January 28, 2013**

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

**Project ID: 683 MARCY AVE**
**Sample ID#s: BD21461 - BD21465**

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

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

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

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

**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**

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

January 28, 2013

SDG I.D.: GBD21461

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8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 to achieve this criteria.

8270 Semivolatile Organics:
Full Scan Analysis:
The acid compounds, Bis(2-chloroethyl)ether, the Nitroanilines and Hexachlorobutadiene were evaluated below the lowest calibration standard in order to achieve the requested criteria.
SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

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

January 28, 2013

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: | | 01/17/13 | 0:00 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21461
Phoenix ID: BD21461

Project ID: 683 MARCY AVE
Client ID: MW 1

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Aluminum | 31.4 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Arsenic | 0.011 | 0.004 | mg/L | 01/20/13 | LK | SW6010 | |
| Barium | 0.655 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Beryllium | 0.002 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Calcium | 68.6 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Cadmium | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Cobalt | 0.048 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Chromium | 0.210 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Copper | 0.134 | 0.005 | mg/L | 01/20/13 | LK | SW6010 | |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Aluminum (Dissolved) | 0.54 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 01/20/13 | LK | SW6010 | |
| Barium (Dissolved) | 0.138 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Calcium (Dissolved) | 62.8 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | B |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Cobalt (Dissolved) | 0.009 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Chromium (Dissolved) | 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 01/20/13 | LK | SW6010 | |
| Iron (Dissolved) | 0.740 | 0.011 | mg/L | 01/20/13 | LK | SW6010 | |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 01/21/13 | RS | SW7470 | |
| Potassium (Dissolved) | 5.0 | 0.1 | mg/L | 01/20/13 | LK | SW6010 | |
| Magnesium (Dissolved) | 37.2 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Manganese (Dissolved) | 2.26 | 0.011 | mg/L | 01/21/13 | LK | SW6010 | |
| Sodium (Dissolved) | 75.7 | 1.1 | mg/L | 01/21/13 | LK | SW6010 | B |
| Nickel (Dissolved) | 0.036 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |

Project ID: 683 MARCY AVE
Client ID: MW 1

Phoenix I.D.: BD21461

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.003 | 0.003 | mg/L | 01/20/13 | LK | SW6010 | |
| Selenium (Dissolved) | < 0.01 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Thallium (Dissolved) | < 0.0005 | 0.0005 | mg/L | 01/22/13 | RS | SW7010 | |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Zinc (Dissolved) | 0.004 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Iron | 97.6 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Mercury | < 0.0002 | 0.0002 | mg/L | 01/21/13 | RS | SW7470 | |
| Potassium | 13.1 | 0.1 | mg/L | 01/20/13 | LK | SW6010 | |
| Magnesium | 50.3 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Manganese | 5.26 | 0.010 | mg/L | 01/21/13 | LK | SW6010 | B |
| Sodium | 76.6 | 1.0 | mg/L | 01/21/13 | LK | SW6010 | B |
| Nickel | 0.181 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Lead | 0.046 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Antimony | < 0.003 | 0.003 | mg/L | 01/20/13 | L/P | SW6010 | |
| Selenium | < 0.010 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Thallium | < 0.0005 | 0.0005 | mg/L | 01/22/13 | RS | SW7010 | |
| Vanadium | 0.093 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Zinc | 0.153 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Dissolved Mercury Digestion | Completed | | | 01/20/13 | X/X | SW7470 | |
| Mercury Digestion | Completed | | | 01/20/13 | X/X | SW7470 | |
| PCB Extraction | Completed | | | 01/18/13 | BT | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 01/18/13 | BT | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 01/18/13 | I/D | SW3520 | |
| Dissolved Metals Preparation | Completed | | | 01/18/13 | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 01/18/13 | AG | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1221 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1232 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1242 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1248 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1254 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1260 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1262 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1268 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 48 | | % | 01/22/13 | MH | 30 - 150 % | |
| % TCMX | 66 | | % | 01/22/13 | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| a-BHC | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| Alachlor | ND* | 0.075 | ug/L | 01/22/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 0.002 | ug/L | 01/22/13 | MH | SW8081 | |
| b-BHC | ND* | 0.005 | ug/L | 01/22/13 | MH | SW8081 | |
| Chlordane | ND* | 0.30 | ug/L | 01/22/13 | MH | SW8081 | |
| d-BHC | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Dieldrin | ND* | 0.002 | ug/L | 01/22/13 | MH | SW8081 |
| Endosulfan I | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endosulfan II | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endosulfan Sulfate | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endrin | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endrin Aldehyde | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endrin ketone | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| g-BHC (Lindane) | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 |
| Heptachlor | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 |
| Heptachlor epoxide | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 |
| Methoxychlor | ND* | 0.10 | ug/L | 01/22/13 | MH | SW8081 |
| Toxaphene | ND* | 1.0 | ug/L | 01/22/13 | MH | SW8081 |
| **QA/QC Surrogates** | | | | | | |
| %DCBP (Surrogate Rec) | 46 | | % | 01/22/13 | MH | 30 - 150 % |
| %TCMX (Surrogate Rec) | 80 | | % | 01/22/13 | MH | 30 - 150 % |
| **Volatiles** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | 140 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | 50 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 01/18/13 | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Bromomethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloroform | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.4 | ug/L | 01/18/13 | R/T | SW8260 | 1 |
| Dibromochloromethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 01/18/13 | R/T | SW8260 | |
| Isopropylbenzene | 13 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Naphthalene | 4.0 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| n-Butylbenzene | 3.8 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| n-Propylbenzene | 30 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| p-Isopropyltoluene | 1.8 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| sec-Butylbenzene | 5.2 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.4 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Vinyl chloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Bromofluorobenzene | 94 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Dibromofluoromethane | 82 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Toluene-d8 | 106 | | % | 01/18/13 | R/T | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,2-Dichlorobenzene | ND | 4 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,2-Diphenylhydrazine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,3-Dichlorobenzene | ND | 3 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4,6-Trichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dimethylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dinitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,6-Dinitrotoluene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Chloronaphthalene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Chlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Methylnaphthalene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Nitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 11 | ug/L | 01/21/13 | D/P | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 3-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chloro-3-methylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chloroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Nitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Acetophenone | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Aniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Anthracene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzidine | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzyl butyl phthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroethyl)ether | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Carbazole | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Dibenzofuran | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Diethyl phthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Dimethylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Di-n-butylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Di-n-octylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Fluoranthene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Fluorene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Hexachlorobutadiene | ND | 0.5 | ug/L | 01/21/13 | D/P | SW8270 |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Isophorone | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Naphthalene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Nitrobenzene | ND | 0.4 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodimethylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Phenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Pyrene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 115 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % 2-Fluorobiphenyl | 69 | | % | 01/21/13 | D/P | 30 - 130 % | |
| % 2-Fluorophenol | 82 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % Nitrobenzene-d5 | 80 | | % | 01/21/13 | D/P | 30 - 130 % | |
| % Phenol-d5 | 85 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % Terphenyl-d14 | 68 | | % | 01/21/13 | D/P | 30 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.8 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Acenaphthene | ND | 0.057 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Acenaphthylene | ND | 0.057 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benz(a)anthracene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.4 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.8 | ug/L | 01/20/13 | DD | SW8270 (SIM) | B |
| Chrysene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.04 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.7 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.11 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pentachlorophenol | ND | 0.91 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Phenanthrene | ND | 0.057 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.57 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 115 | | % | 01/20/13 | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 69 | | % | 01/20/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 82 | | % | 01/20/13 | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 80 | | % | 01/20/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 85 | | % | 01/20/13 | DD | 15 - 130 % | |
| % Terphenyl-d14 | 68 | | % | 01/20/13 | DD | 30 - 130 % | |

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| Parameter | Result | RL/ PQL | 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.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

8270 semi-volatile comment:
Some compounds were evaluated below the calibration range in order to achieve the requested reporting level.

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


**Phyllis Shiller, Laboratory Director**
**January 28, 2013**
**Reviewed and Released by: Phyllis Shiller, Laboratory Director**

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

January 28, 2013

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: | | 01/17/13 | 0:00 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21461
Phoenix ID: BD21462

Project ID: 683 MARCY AVE
Client ID: MW 3

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Aluminum | 134 | 0.10 | mg/L | 01/21/13 | LK | SW6010 | |
| Arsenic | 0.077 | 0.004 | mg/L | 01/20/13 | LK | SW6010 | |
| Barium | 1.74 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Beryllium | 0.009 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Calcium | 88.1 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Cadmium | 0.004 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Cobalt | 0.167 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Chromium | 1.24 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Copper | 0.718 | 0.005 | mg/L | 01/20/13 | LK | SW6010 | |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Aluminum (Dissolved) | 1.51 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 01/20/13 | LK | SW6010 | |
| Barium (Dissolved) | 0.118 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Calcium (Dissolved) | 63.1 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | B |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Cobalt (Dissolved) | 0.014 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Chromium (Dissolved) | 0.012 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Copper (Dissolved) | 0.007 | 0.005 | mg/L | 01/20/13 | LK | SW6010 | |
| Iron (Dissolved) | 4.48 | 0.011 | mg/L | 01/20/13 | LK | SW6010 | |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 01/21/13 | RS | SW7470 | |
| Potassium (Dissolved) | 5.5 | 0.1 | mg/L | 01/20/13 | LK | SW6010 | |
| Magnesium (Dissolved) | 31.8 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Manganese (Dissolved) | 1.07 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Sodium (Dissolved) | 83.9 | 1.1 | mg/L | 01/21/13 | LK | SW6010 | B |
| Nickel (Dissolved) | 0.036 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Lead (Dissolved) | 0.005 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.003 | 0.003 | mg/L | 01/20/13 | LK | SW6010 | |
| Selenium (Dissolved) | < 0.01 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Thallium (Dissolved) | < 0.0005 | 0.0005 | mg/L | 01/22/13 | RS | SW7010 | |
| Vanadium (Dissolved) | 0.003 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Zinc (Dissolved) | 0.018 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Iron | 568 | 0.10 | mg/L | 01/21/13 | LK | SW6010 | |
| Mercury | < 0.0002 | 0.0002 | mg/L | 01/21/13 | RS | SW7470 | |
| Potassium | 33.8 | 0.1 | mg/L | 01/20/13 | LK | SW6010 | |
| Magnesium | 101 | 0.10 | mg/L | 01/21/13 | LK | SW6010 | |
| Manganese | 6.89 | 0.010 | mg/L | 01/21/13 | LK | SW6010 | B |
| Sodium | 83.8 | 1.0 | mg/L | 01/21/13 | LK | SW6010 | B |
| Nickel | 0.572 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Lead | 0.283 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Antimony | < 0.003 | 0.003 | mg/L | 01/20/13 | L/P | SW6010 | |
| Selenium | < 0.010 | 0.010 | mg/L | 01/22/13 | LK | SW6010 | |
| Thallium | < 0.0005 | 0.0005 | mg/L | 01/22/13 | RS | SW7010 | |
| Vanadium | 0.434 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Zinc | 1.38 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Dissolved Mercury Digestion | Completed | | | 01/20/13 | X/X | SW7470 | |
| Mercury Digestion | Completed | | | 01/20/13 | X/X | SW7470 | |
| PCB Extraction | Completed | | | 01/18/13 | BT | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 01/18/13 | BT | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 01/18/13 | I/D | SW3520 | |
| Dissolved Metals Preparation | Completed | | | 01/18/13 | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 01/18/13 | AG | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1221 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1232 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1242 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1248 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1254 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1260 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1262 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1268 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 58 | | % | 01/22/13 | MH | 30 - 150 % | |
| % TCMX | 76 | | % | 01/22/13 | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| a-BHC | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 | |
| Alachlor | ND* | 0.075 | ug/L | 01/22/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 0.002 | ug/L | 01/22/13 | MH | SW8081 | |
| b-BHC | ND* | 0.005 | ug/L | 01/22/13 | MH | SW8081 | |
| Chlordane | ND* | 0.30 | ug/L | 01/22/13 | MH | SW8081 | |
| d-BHC | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Dieldrin | ND* | 0.004 | ug/L | 01/22/13 | MH | SW8081 |
| Endosulfan I | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endosulfan II | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endosulfan Sulfate | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endrin | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endrin Aldehyde | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| Endrin ketone | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 |
| g-BHC (Lindane) | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 |
| Heptachlor | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 |
| Heptachlor epoxide | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 |
| Methoxychlor | ND* | 0.10 | ug/L | 01/22/13 | MH | SW8081 |
| Toxaphene | ND* | 1.0 | ug/L | 01/22/13 | MH | SW8081 |
| **QA/QC Surrogates** | | | | | | |
| %DCBP (Surrogate Rec) | 52 | | % | 01/22/13 | MH | 30 - 150 % |
| %TCMX (Surrogate Rec) | 85 | | % | 01/22/13 | MH | 30 - 150 % |

## Volatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | 1.4 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 10.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 [1] |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 01/18/13 | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Bromomethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloroform | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.4 | ug/L | 01/18/13 | R/T | SW8260 | 1 |
| Dibromochloromethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 01/18/13 | R/T | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| n-Propylbenzene | 10 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| p-Isopropyltoluene | 1.3 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| sec-Butylbenzene | 4.8 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.4 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Vinyl chloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Bromofluorobenzene | 95 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Dibromofluoromethane | 77 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Toluene-d8 | 96 | | % | 01/18/13 | R/T | 70 - 130 % | |

## Semivolatiles

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,2-Dichlorobenzene | ND | 4 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,2-Diphenylhydrazine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,3-Dichlorobenzene | ND | 3 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4,6-Trichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dimethylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dinitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,6-Dinitrotoluene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Chloronaphthalene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Chlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Methylnaphthalene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Nitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 11 | ug/L | 01/21/13 | D/P | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 3-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chloro-3-methylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chloroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Nitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Acetophenone | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Aniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Anthracene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzidine | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzyl butyl phthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroethyl)ether | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Carbazole | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Dibenzofuran | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Diethyl phthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Dimethylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Di-n-butylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Di-n-octylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Fluoranthene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Fluorene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Hexachlorobutadiene | ND | 0.5 | ug/L | 01/21/13 | D/P | SW8270 |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Isophorone | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Naphthalene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Nitrobenzene | ND | 0.4 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodimethylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Phenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Pyrene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 108 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % 2-Fluorobiphenyl | 65 | | % | 01/21/13 | D/P | 30 - 130 % | |
| % 2-Fluorophenol | 61 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % Nitrobenzene-d5 | 69 | | % | 01/21/13 | D/P | 30 - 130 % | |
| % Phenol-d5 | <5 | | % | 01/21/13 | D/P | 15 - 130 % | 3 |
| % Terphenyl-d14 | 36 | | % | 01/21/13 | D/P | 30 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 2.0 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Acenaphthene | ND | 0.063 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Acenaphthylene | ND | 0.063 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benz(a)anthracene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.8 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 2.0 | ug/L | 01/20/13 | DD | SW8270 (SIM) | B |
| Chrysene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.04 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 3.0 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.13 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pentachlorophenol | ND | 1.0 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Phenanthrene | ND | 0.063 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.63 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 108 | | % | 01/20/13 | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 65 | | % | 01/20/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 61 | | % | 01/20/13 | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 69 | | % | 01/20/13 | DD | 30 - 130 % | |
| % Phenol-d5 | <5 | | % | 01/20/13 | DD | 15 - 130 % | 3 |
| % Terphenyl-d14 | 36 | | % | 01/20/13 | DD | 30 - 130 % | |

Project ID: 683 MARCY AVE
Client ID: MW 3

Phoenix I.D.: BD21462

| Parameter | Result | RL/ PQL | 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.
3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria.

* 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.
This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**January 28, 2013**
**Reviewed and Released by: Phyllis Shiller, Laboratory Director**

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

January 28, 2013

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: | | 01/17/13 | 0:00 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21461
Phoenix ID: BD21463

Project ID: 683 MARCY AVE
Client ID: DUPLICATE

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Aluminum | 36.3 | 0.10 | mg/L | 01/21/13 | LK | SW6010 | |
| Arsenic | 0.017 | 0.004 | mg/L | 01/20/13 | LK | SW6010 | |
| Barium | 0.741 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Beryllium | 0.003 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Calcium | 72.6 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Cadmium | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Cobalt | 0.058 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Chromium | 0.322 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Copper | 0.169 | 0.005 | mg/L | 01/20/13 | LK | SW6010 | |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Aluminum (Dissolved) | 1.42 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 01/20/13 | LK | SW6010 | |
| Barium (Dissolved) | 0.132 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Calcium (Dissolved) | 64.1 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | B |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Cobalt (Dissolved) | 0.009 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Chromium (Dissolved) | 0.009 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Copper (Dissolved) | 0.006 | 0.005 | mg/L | 01/20/13 | LK | SW6010 | |
| Iron (Dissolved) | 3.03 | 0.011 | mg/L | 01/20/13 | LK | SW6010 | |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 01/21/13 | RS | SW7470 | |
| Potassium (Dissolved) | 4.9 | 0.1 | mg/L | 01/20/13 | LK | SW6010 | |
| Magnesium (Dissolved) | 38.5 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Manganese (Dissolved) | 2.15 | 0.011 | mg/L | 01/21/13 | EK | SW6010 | |
| Sodium (Dissolved) | 72.7 | 1.1 | mg/L | 01/21/13 | EK | SW6010 | B |
| Nickel (Dissolved) | 0.041 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |

Project ID: 683 MARCY AVE
Client ID: DUPLICATE

Phoenix I.D.: BD21463

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.003 | 0.003 | mg/L | 01/20/13 | LK | SW6010 | |
| Selenium (Dissolved) | < 0.01 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Thallium (Dissolved) | < 0.0005 | 0.0005 | mg/L | 01/22/13 | RS | SW7010 | |
| Vanadium (Dissolved) | 0.002 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Zinc (Dissolved) | 0.010 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Iron | 124 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Mercury | < 0.0002 | 0.0002 | mg/L | 01/21/13 | RS | SW7470 | |
| Potassium | 14.0 | 0.1 | mg/L | 01/20/13 | LK | SW6010 | |
| Magnesium | 53.7 | 0.01 | mg/L | 01/20/13 | LK | SW6010 | |
| Manganese | 6.69 | 0.010 | mg/L | 01/21/13 | LK | SW6010 | B |
| Sodium | 82.1 | 1.0 | mg/L | 01/21/13 | LK | SW6010 | B |
| Nickel | 0.239 | 0.001 | mg/L | 01/20/13 | LK | SW6010 | |
| Lead | 0.050 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Antimony | < 0.003 | 0.003 | mg/L | 01/20/13 | L/P | SW6010 | |
| Selenium | < 0.010 | 0.010 | mg/L | 01/20/13 | LK | SW6010 | |
| Thallium | < 0.0005 | 0.0005 | mg/L | 01/22/13 | RS | SW7010 | |
| Vanadium | 0.110 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Zinc | 0.191 | 0.002 | mg/L | 01/20/13 | LK | SW6010 | |
| Dissolved Mercury Digestion | Completed | | | 01/20/13 | X/X | SW7470 | |
| Mercury Digestion | Completed | | | 01/20/13 | X/X | SW7470 | |
| PCB Extraction | Completed | | | 01/18/13 | BT | SW3510C | |
| Extraction for Pest (2 Liter) | Completed | | | 01/18/13 | BT | SW3510 | |
| Semi-Volatile Extraction | Completed | | | 01/18/13 | I/D | SW3520 | |
| Dissolved Metals Preparation | Completed | | | 01/18/13 | AG | SW846-3005 | |
| Total Metals Digestion | Completed | | | 01/18/13 | AG | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1221 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1232 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1242 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1248 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1254 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1260 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1262 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| PCB-1268 | ND | 0.050 | ug/L | 01/22/13 | MH | 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 70 | | % | 01/22/13 | MH | 30 - 150 % | |
| % TCMX | 75 | | % | 01/22/13 | MH | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| a-BHC | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| Alachlor | ND* | 0.075 | ug/L | 01/22/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 0.002 | ug/L | 01/22/13 | MH | SW8081 | |
| b-BHC | ND* | 0.005 | ug/L | 01/22/13 | MH | SW8081 | |
| Chlordane | ND* | 0.30 | ug/L | 01/22/13 | MH | SW8081 | |
| d-BHC | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Dieldrin | ND* | 0.002 | ug/L | 01/22/13 | MH | SW8081 | |
| Endosulfan I | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| Endosulfan II | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| Endosulfan Sulfate | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| Endrin | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| Endrin Aldehyde | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| Endrin ketone | ND* | 0.050 | ug/L | 01/22/13 | MH | SW8081 | |
| g-BHC (Lindane) | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 | |
| Heptachlor | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 | |
| Heptachlor epoxide | ND* | 0.025 | ug/L | 01/22/13 | MH | SW8081 | |
| Methoxychlor | ND* | 0.10 | ug/L | 01/22/13 | MH | SW8081 | |
| Toxaphene | ND* | 1.0 | ug/L | 01/22/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| %DCBP (Surrogate Rec) | 53 | | % | 01/22/13 | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | 70 | | % | 01/22/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2,4-Trimethylbenzene | 140 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,3,5-Trimethylbenzene | 51 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Acetone | ND | 25 | ug/L | 01/18/13 | R/T | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 01/18/13 | R/T | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Bromochloromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |

Project ID: 683 MARCY AVE
Client ID: DUPLICATE

Phoenix I.D.: BD21463

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Bromomethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloroform | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.4 | ug/L | 01/18/13 | R/T | SW8260 | 1 |
| Dibromochloromethane | ND | 0.50 | ug/L | 01/18/13 | R/T | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 01/18/13 | R/T | SW8260 | |
| Isopropylbenzene | 15 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Naphthalene | 4.4 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| n-Butylbenzene | 4.2 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| n-Propylbenzene | 30 | 10.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| p-Isopropyltoluene | 2.8 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| sec-Butylbenzene | 5.8 | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.4 | ug/L | 01/18/13 | R/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| Vinyl chloride | ND | 1.0 | ug/L | 01/18/13 | R/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Bromofluorobenzene | 95 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Dibromofluoromethane | 75 | | % | 01/18/13 | R/T | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 01/18/13 | R/T | 70 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,2-Dichlorobenzene | ND | 4 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,2-Diphenylhydrazine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,3-Dichlorobenzene | ND | 3 | ug/L | 01/21/13 | D/P | SW8270 | |
| 1,4-Dichlorobenzene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 | |

Project ID: 683 MARCY AVE
Client ID: DUPLICATE

Phoenix I.D.: BD21463

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4,6-Trichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dichlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dimethylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dinitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2,6-Dinitrotoluene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Chloronaphthalene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Chlorophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Methylnaphthalene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 2-Nitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 11 | ug/L | 01/21/13 | D/P | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 3-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chloro-3-methylphenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chloroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Nitroaniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| 4-Nitrophenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Acetophenone | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Aniline | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Anthracene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzidine | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 01/21/13 | D/P | SW8270 |
| Benzyl butyl phthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroethyl)ether | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Carbazole | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Dibenzofuran | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Diethyl phthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Dimethylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Di-n-butylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Di-n-octylphthalate | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Fluoranthene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Fluorene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Hexachlorobutadiene | ND | 0.5 | ug/L | 01/21/13 | D/P | SW8270 |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Isophorone | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Naphthalene | ND | 5 | ug/L | 01/21/13 | D/P | SW8270 |
| Nitrobenzene | ND | 0.4 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodimethylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |
| Phenol | ND | 1 | ug/L | 01/21/13 | D/P | SW8270 |
| Pyrene | ND | 5.6 | ug/L | 01/21/13 | D/P | SW8270 |

Project ID: 683 MARCY AVE
Client ID: DUPLICATE

Phoenix I.D.: BD21463

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 112 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % 2-Fluorobiphenyl | 73 | | % | 01/21/13 | D/P | 30 - 130 % | |
| % 2-Fluorophenol | 85 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % Nitrobenzene-d5 | 80 | | % | 01/21/13 | D/P | 30 - 130 % | |
| % Phenol-d5 | 86 | | % | 01/21/13 | D/P | 15 - 130 % | |
| % Terphenyl-d14 | 75 | | % | 01/21/13 | D/P | 30 - 130 % | |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.8 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Acenaphthene | ND | 0.056 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Acenaphthylene | ND | 0.056 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benz(a)anthracene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.3 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.8 | ug/L | 01/20/13 | DD | SW8270 (SIM) | B |
| Chrysene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.04 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.7 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.11 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pentachlorophenol | ND | 0.89 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Phenanthrene | ND | 0.056 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.56 | ug/L | 01/20/13 | DD | SW8270 (SIM) | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 112 | | % | 01/20/13 | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 73 | | % | 01/20/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 85 | | % | 01/20/13 | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 80 | | % | 01/20/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 86 | | % | 01/20/13 | DD | 15 - 130 % | |
| % Terphenyl-d14 | 75 | | % | 01/20/13 | DD | 30 - 130 % | |

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## 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.


**Phyllis Shiller, Laboratory Director**
**January 28, 2013**
**Reviewed and Released by: Phyllis Shiller, Laboratory Director**

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

January 28, 2013

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: | | 01/17/13 | 0:00 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21461
Phoenix ID: BD21464

Project ID: 683 MARCY AVE
Client ID: TRIP BLANK

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Percent Solid | 100 | 1 | % | | | E160.3 | |
| Field Extraction | Completed | | | 01/17/13 | | SW5035 | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 1300 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE
Client ID: TRIP BLANK

Phoenix I.D.: BD21464

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone | ND | 1300 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Acetone | ND | 5000 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 500 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Benzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromobenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromoform | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromomethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chloroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chloroform | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chloromethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Dibromomethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 3000 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Methylene chloride | ND | 500 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Naphthalene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| o-Xylene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Styrene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 500 | ug/Kg | 01/19/13 | R/J | SW8260 | 1 |
| Toluene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Total Xylenes | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 500 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Trichloroethene | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 250 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 97 | | % | 01/19/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 96 | | % | 01/19/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 90 | | % | 01/19/13 | R/J | 70 - 130 % | |

Project ID: 683 MARCY AVE
Client ID: TRIP BLANK

Phoenix I.D.: BD21464

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Toluene-d8 | 97 | | % | 01/19/13 | R/J | 70 - 130 % |

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

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

**Phyllis Shiller, Laboratory Director**
**January 28, 2013**
**Reviewed and Released by: Phyllis Shiller, Laboratory Director**

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

January 28, 2013

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: | | 01/17/13 | 0:00 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21461
Phoenix ID: BD21465

Project ID: 683 MARCY AVE
Client ID: TRIP BLANK

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Percent Solid | 100 | 1 | % | | | E160.3 | |
| Field Extraction | Completed | | | 01/17/13 | | SW5035 | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,1-Dichloropropene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | LP |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | LP |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 25 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |

Project ID: 683 MARCY AVE
Client ID: TRIP BLANK

Phoenix I.D.: BD21465

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone | ND | 25 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Acetone | ND | 100 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Benzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromoform | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chloroform | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 3.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | LP |
| Isopropylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 30 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Methylene chloride | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| p-Isopropyltoluene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Styrene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 01/19/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.0 | ug/Kg | 01/19/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 01/19/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 93 | | % | 01/19/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 91 | | % | 01/19/13 | R/J | 70 - 130 % | |

Project ID: 683 MARCY AVE
Client ID: TRIP BLANK

Phoenix I.D.: BD21465

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Toluene-d8 | 98 | | % | 01/19/13 | R/J | 70 - 130 % |

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

## Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

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

**Phyllis Shiller, Laboratory Director**
**January 28, 2013**
**Reviewed and Released by: Phyllis Shiller, Laboratory Director**

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

January 28, 2013

## QA/QC Data

SDG I.D.: GBD21461

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 218847, QC Sample No: BD20459 (BD21461, BD21462, BD21463) | | | | | | | | | | | | | |
| ICP Metals - Aqueous | | | | | | | | | | | | | |
| Aluminum | BRL | 0.106 | 0.138 | 26.2 | 99.2 | 98.7 | 0.5 | 97.1 | 99.5 | 2.4 | 75 - 125 | 20 | r |
| Antimony | BRL | <0.005 | <0.005 | NC | 104 | 103 | 1.0 | 102 | 106 | 3.8 | 75 - 125 | 20 | |
| Arsenic | BRL | <0.004 | <0.004 | NC | 99.2 | 98.4 | 0.8 | 98.0 | 102 | 4.0 | 75 - 125 | 20 | |
| Barium | BRL | 0.007 | 0.007 | NC | 105 | 102 | 2.9 | 104 | 106 | 1.9 | 75 - 125 | 20 | |
| Beryllium | BRL | <0.001 | <0.001 | NC | 97.0 | 96.7 | 0.3 | 96.7 | 100 | 3.4 | 75 - 125 | 20 | |
| Cadmium | BRL | <0.001 | <0.001 | NC | 98.2 | 97.3 | 0.9 | 96.6 | 100 | 3.5 | 75 - 125 | 20 | |
| Calcium | BRL | 7.83 | 8.11 | 3.50 | 95.9 | 95.4 | 0.5 | NC | NC | NC | 75 - 125 | 20 | |
| Chromium | BRL | <0.001 | 0.005 | NC | 98.1 | 96.7 | 1.4 | 96.2 | 101 | 4.9 | 75 - 125 | 20 | |
| Cobalt | BRL | <0.002 | <0.002 | NC | 102 | 101 | 1.0 | 99.5 | 104 | 4.4 | 75 - 125 | 20 | |
| Copper | BRL | 0.007 | <0.005 | NC | 104 | 102 | 1.9 | 101 | 106 | 4.8 | 75 - 125 | 20 | |
| Iron | BRL | 0.220 | 0.237 | 7.40 | 104 | 102 | 1.9 | 98.2 | 108 | 9.5 | 75 - 125 | 20 | |
| Lead | BRL | 0.003 | 0.002 | NC | 98.8 | 98.1 | 0.7 | 96.7 | 101 | 4.4 | 75 - 125 | 20 | |
| Magnesium | BRL | 2.76 | 2.83 | 2.50 | 97.8 | 97.4 | 0.4 | 80.1 | 99.0 | 21.1 | 75 - 125 | 20 | r |
| Manganese | 0.007 | 0.090 | 0.093 | 3.30 | 100 | 99.8 | 0.2 | 98.2 | 103 | 4.8 | 75 - 125 | 20 | |
| Nickel | BRL | <0.001 | <0.001 | NC | 101 | 99.9 | 1.1 | 98.9 | 103 | 4.1 | 75 - 125 | 20 | |
| Potassium | BRL | 2.3 | 2.3 | 0 | 113 | 106 | 6.4 | 109 | 113 | 3.6 | 75 - 125 | 20 | |
| Selenium | BRL | <0.010 | <0.010 | NC | 95.8 | 97.3 | 1.6 | 95.0 | 99.7 | 4.8 | 75 - 125 | 20 | |
| Silver | BRL | <0.001 | <0.001 | NC | 96.1 | 95.4 | 0.7 | 95.2 | 99.1 | 4.0 | 75 - 125 | 20 | |
| Sodium | 0.1 | 13.8 | 13.9 | 0.70 | 124 | 114 | 8.4 | NC | NC | NC | 75 - 125 | 20 | |
| Vanadium | BRL | <0.002 | <0.002 | NC | 97.7 | 96.6 | 1.1 | 96.1 | 99.9 | 3.9 | 75 - 125 | 20 | |
| Zinc | BRL | 0.003 | 0.003 | NC | 99.3 | 98.6 | 0.7 | 98.5 | 104 | 5.4 | 75 - 125 | 20 | |
| QA/QC Batch 218879, QC Sample No: BD20750 (BD21461, BD21462, BD21463) | | | | | | | | | | | | | |
| Thallium - Water | BRL | <0.002 | <0.002 | NC | 113 | 110 | 2.7 | 113 | 116 | 2.6 | 75 - 125 | 20 | |
| QA/QC Batch 218875, QC Sample No: BD20824 (BD21461, BD21462, BD21463) | | | | | | | | | | | | | |
| Thallium (Dissolved) | | <0.0005 | <0.005 | NC | 105 | 108 | 2.8 | 116 | | | 75 - 125 | 20 | |
| QA/QC Batch 218865, QC Sample No: BD20953 (BD21461, BD21462, BD21463) | | | | | | | | | | | | | |
| ICP Metals - Dissolved | | | | | | | | | | | | | |
| Aluminum | BRL | <0.01 | 0.05 | NC | 95.8 | 92.4 | 3.6 | 93.2 | 94.4 | 1.3 | 75 - 125 | 20 | |
| Antimony | BRL | <0.005 | <0.005 | NC | 96.9 | 91.8 | 5.4 | 100 | 99.7 | 0.3 | 75 - 125 | 20 | |
| Arsenic | BRL | <0.004 | <0.004 | NC | 94.8 | 89.8 | 5.4 | 99.7 | 100 | 0.3 | 75 - 125 | 20 | |
| Barium | BRL | 0.124 | 0.123 | 0.80 | 98.0 | 93.7 | 4.5 | 98.9 | 98.8 | 0.1 | 75 - 125 | 20 | |
| Beryllium | BRL | <0.001 | <0.001 | NC | 94.4 | 91.2 | 3.4 | 99.1 | 99.2 | 0.1 | 75 - 125 | 20 | |
| Cadmium | BRL | <0.001 | <0.001 | NC | 98.7 | 93.9 | 5.0 | 103 | 104 | 1.0 | 75 - 125 | 20 | |
| Calcium | 0.06 | 28.7 | 29.2 | 1.70 | 92.5 | 88.5 | 4.4 | NC | NC | NC | 75 - 125 | 20 | |
| Chromium | BRL | <0.001 | <0.001 | NC | 89.8 | 85.2 | 5.3 | 94.3 | 94.4 | 0.1 | 75 - 125 | 20 | |
| Cobalt | BRL | <0.001 | <0.001 | NC | 95.6 | 91.5 | 4.4 | 101 | 101 | 0.0 | 75 - 125 | 20 | |
| Copper | BRL | <0.005 | <0.005 | NC | 95.3 | 91.4 | 4.2 | 94.2 | 97.5 | 3.4 | 75 - 125 | 20 | |
| Iron | BRL | <0.011 | 0.011 | NC | 79.0 | 75.9 | 4.0 | 81.7 | 84.7 | 3.6 | 75 - 125 | 20 | |
| Lead | BRL | <0.002 | <0.002 | NC | 93.8 | 89.6 | 4.6 | 97.8 | 97.5 | 0.3 | 75 - 125 | 20 | |
| Magnesium | BRL | 4.77 | 4.99 | 4.50 | 95.1 | 89.3 | 6.3 | >130 | >130 | NC | 75 - 125 | 20 | m |

# QA/QC Data

SDG I.D.: GBD21461

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Manganese | BRL | <0.001 | <0.001 | NC | 95.4 | 89.9 | 5.9 | 98.2 | 99.3 | 1.1 | 75 - 125 | 20 | |
| Nickel | BRL | <0.001 | <0.001 | NC | 93.9 | 89.2 | 5.1 | 97.9 | 97.5 | 0.4 | 75 - 125 | 20 | |
| Potassium | BRL | 1.3 | 1.3 | 0 | 107 | 103 | 3.8 | 82.2 | 92.5 | 11.8 | 75 - 125 | 20 | |
| Selenium | BRL | <0.011 | <0.011 | NC | 106 | 101 | 4.8 | 112 | 113 | 0.9 | 75 - 125 | 20 | |
| Silver | BRL | <0.001 | <0.001 | NC | 92.5 | 88.3 | 4.6 | 67.8 | 69.5 | 2.5 | 75 - 125 | 20 | m |
| Sodium | 0.38 | 11.4 | 11.0 | 3.60 | >130 | 124 | NC | NC | NC | NC | 75 - 125 | 20 | l |
| Vanadium | BRL | <0.002 | <0.002 | NC | 90.8 | 86.4 | 5.0 | 92.9 | 94.6 | 1.8 | 75 - 125 | 20 | |
| Zinc | BRL | <0.002 | <0.002 | NC | 99.9 | 94.3 | 5.8 | 106 | 106 | 0.0 | 75 - 125 | 20 | |
| QA/QC Batch 219061, QC Sample No: BD21461 (BD21461, BD21462, BD21463) | | | | | | | | | | | | | |
| Mercury - Water | BRL | <0.0002 | <0.0002 | NC | 108 | 106 | 1.9 | 115 | 116 | 0.9 | 70 - 130 | 20 | |

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.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

January 28, 2013

## QA/QC Data

SDG I.D.: GBD21461

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 218873, QC Sample No: BD19097 (BD21461, BD21462, BD21463) | | | | | | | | | |
| **Pesticides - Ground Water** | | | | | | | | | |
| 4,4' -DDD | ND | 97 | 107 | 9.8 | | | | 40 - 140 | 20 |
| 4,4' -DDE | ND | 90 | 99 | 9.5 | | | | 40 - 140 | 20 |
| 4,4' -DDT | ND | 101 | 114 | 12.1 | | | | 40 - 140 | 20 |
| a-BHC | ND | 101 | 113 | 11.2 | | | | 40 - 140 | 20 |
| a-Chlordane | ND | 93 | 104 | 11.2 | | | | 40 - 140 | 20 |
| Alachlor | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| Aldrin | ND | 91 | 104 | 13.3 | | | | 40 - 140 | 20 |
| b-BHC | ND | 79 | 101 | 24.4 | | | | 40 - 140 | 20 |
| Chlordane | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| d-BHC | ND | 94 | 105 | 11.1 | | | | 40 - 140 | 20 |
| Dieldrin | ND | 98 | 110 | 11.5 | | | | 40 - 140 | 20 |
| Endosulfan I | ND | 90 | 101 | 11.5 | | | | 40 - 140 | 20 |
| Endosulfan II | ND | 100 | 110 | 9.5 | | | | 40 - 140 | 20 |
| Endosulfan sulfate | ND | 98 | 109 | 10.6 | | | | 40 - 140 | 20 |
| Endrin | ND | 108 | 119 | 9.7 | | | | 40 - 140 | 20 |
| Endrin aldehyde | ND | 98 | 117 | 17.7 | | | | 40 - 140 | 20 |
| Endrin ketone | ND | 95 | 105 | 10.0 | | | | 40 - 140 | 20 |
| g-BHC | ND | 97 | 110 | 12.6 | | | | 40 - 140 | 20 |
| g-Chlordane | ND | 92 | 103 | 11.3 | | | | 40 - 140 | 20 |
| Heptachlor | ND | 101 | 110 | 8.5 | | | | 40 - 140 | 20 |
| Heptachlor epoxide | ND | 98 | 110 | 11.5 | | | | 40 - 140 | 20 |
| Methoxychlor | ND | 103 | 113 | 9.3 | | | | 40 - 140 | 20 |
| Toxaphene | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| % DCBP | 72 | 78 | 85 | 8.6 | | | | 30 - 150 | 20 |
| % TCMX | 76 | 78 | 88 | 12.0 | | | | 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.

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 218754, QC Sample No: BD19841 (BD21461, BD21462, BD21463) | | | | | | | | | |
| **Polychlorinated Biphenyls - Ground Water** | | | | | | | | | |
| PCB-1016 | ND | 74 | 67 | 9.9 | | | | 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 | 74 | 64 | 14.5 | | | | 40 - 140 | 20 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 20 |
| % DCBP (Surrogate Rec) | 74 | 75 | 67 | 11.3 | | | | 30 - 150 | 20 |
| % TCMX (Surrogate Rec) | 64 | 68 | 59 | 14.2 | | | | 30 - 150 | 20 |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| Comment: | | | | | | | | | |
| A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate. | | | | | | | | | |
| QA/QC Batch 218858, QC Sample No: BD20878 (BD21461, BD21462, BD21463) | | | | | | | | | |
| **Semivolatiles - Ground Water** | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 67 | 71 | 5.8 | | | | 30 - 130 | 20 |
| 1,2,4-Trichlorobenzene | ND | 63 | 69 | 9.1 | | | | 30 - 130 | 20 |
| 1,2-Dichlorobenzene | ND | 62 | 66 | 6.3 | | | | 30 - 130 | 20 |
| 1,2-Diphenylhydrazine | ND | 62 | 66 | 6.3 | | | | 30 - 130 | 20 |
| 1,3-Dichlorobenzene | ND | 59 | 64 | 8.1 | | | | 30 - 130 | 20 |
| 1,4-Dichlorobenzene | ND | 60 | 65 | 8.0 | | | | 30 - 130 | 20 |
| 2,4,5-Trichlorophenol | ND | 67 | 71 | 5.8 | | | | 30 - 130 | 20 |
| 2,4,6-Trichlorophenol | ND | 67 | 71 | 5.8 | | | | 30 - 130 | 20 |
| 2,4-Dichlorophenol | ND | 74 | 78 | 5.3 | | | | 30 - 130 | 20 |
| 2,4-Dimethylphenol | ND | 51 | 53 | 3.8 | | | | 30 - 130 | 20 |
| 2,4-Dinitrophenol | ND | 26 | 28 | 7.4 | | | | 30 - 130 | 20 |
| 2,4-Dinitrotoluene | ND | 70 | 76 | 8.2 | | | | 30 - 130 | 20 |
| 2,6-Dinitrotoluene | ND | 74 | 76 | 2.7 | | | | 30 - 130 | 20 |
| 2-Chloronaphthalene | ND | 65 | 70 | 7.4 | | | | 30 - 130 | 20 |
| 2-Chlorophenol | ND | 62 | 66 | 6.3 | | | | 30 - 130 | 20 |
| 2-Methylnaphthalene | ND | 67 | 72 | 7.2 | | | | 30 - 130 | 20 |
| 2-Methylphenol (o-cresol) | ND | 64 | 68 | 6.1 | | | | 30 - 130 | 20 |
| 2-Nitroaniline | ND | 104 | 107 | 2.8 | | | | 30 - 130 | 20 |
| 2-Nitrophenol | ND | 69 | 73 | 5.6 | | | | 30 - 130 | 20 |
| 3&4-Methylphenol (m&p-cresol) | ND | 66 | 72 | 8.7 | | | | 30 - 130 | 20 |
| 3,3'-Dichlorobenzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 |
| 3-Nitroaniline | ND | 72 | 76 | 5.4 | | | | 30 - 130 | 20 |
| 4,6-Dinitro-2-methylphenol | ND | 62 | 67 | 7.8 | | | | 30 - 130 | 20 |
| 4-Bromophenyl phenyl ether | ND | 67 | 72 | 7.2 | | | | 30 - 130 | 20 |
| 4-Chloro-3-methylphenol | ND | 77 | 84 | 8.7 | | | | 30 - 130 | 20 |
| 4-Chloroaniline | ND | 42 | 46 | 9.1 | | | | 30 - 130 | 20 |
| 4-Chlorophenyl phenyl ether | ND | 64 | 68 | 6.1 | | | | 30 - 130 | 20 |
| 4-Nitroaniline | ND | 72 | 76 | 5.4 | | | | 30 - 130 | 20 |
| 4-Nitrophenol | ND | 66 | 71 | 7.3 | | | | 30 - 130 | 20 |
| Acenaphthene | ND | 73 | 74 | 1.4 | | | | 30 - 130 | 20 |
| Acenaphthylene | ND | 64 | 68 | 6.1 | | | | 30 - 130 | 20 |
| Acetophenone | ND | 64 | 67 | 4.6 | | | | 30 - 130 | 20 |
| Aniline | ND | N/A | N/A | NC | | | | 30 - 130 | 20 |
| Anthracene | ND | 79 | 85 | 7.3 | | | | 30 - 130 | 20 |
| Benz(a)anthracene | ND | 95 | 97 | 2.1 | | | | 30 - 130 | 20 |
| Benzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 |
| Benzo(a)pyrene | ND | 71 | 76 | 6.8 | | | | 30 - 130 | 20 |
| Benzo(b)fluoranthene | ND | 85 | 91 | 6.8 | | | | 30 - 130 | 20 |
| Benzo(ghi)perylene | ND | 87 | 93 | 6.7 | | | | 30 - 130 | 20 |
| Benzo(k)fluoranthene | ND | 82 | 90 | 9.3 | | | | 30 - 130 | 20 |
| Benzoic acid | ND | N/A | N/A | NC | | | | 30 - 130 | 20 |
| Benzyl butyl phthalate | ND | 68 | 72 | 5.7 | | | | 30 - 130 | 20 |
| Bis(2-chloroethoxy)methane | ND | 35 | 38 | 8.2 | | | | 30 - 130 | 20 |
| Bis(2-chloroethyl)ether | ND | 71 | 66 | 7.3 | | | | 30 - 130 | 20 |
| Bis(2-chloroisopropyl)ether | ND | 61 | 66 | 7.9 | | | | 30 - 130 | 20 |
| Bis(2-ethylhexyl)phthalate | 0.35 B | 70 | 73 | 4.2 | | | | 30 - 130 | 20 |
| Carbazole | ND | >150 | >150 | NC | | | | 30 - 130 | 20 |
| Chrysene | ND | 80 | 87 | 8.4 | | | | 30 - 130 | 20 |

# QA/QC Data

SDG I.D.: GBD21461

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | ND | 83 | 88 | 5.8 | | | | 30 - 130 | 20 | |
| Dibenzofuran | ND | 66 | 70 | 5.9 | | | | 30 - 130 | 20 | |
| Diethyl phthalate | ND | 71 | 75 | 5.5 | | | | 30 - 130 | 20 | |
| Dimethylphthalate | ND | 71 | 74 | 4.1 | | | | 30 - 130 | 20 | |
| Di-n-butylphthalate | ND | 71 | 76 | 6.8 | | | | 30 - 130 | 20 | |
| Di-n-octylphthalate | ND | 64 | 68 | 6.1 | | | | 30 - 130 | 20 | |
| Fluoranthene | ND | 68 | 73 | 7.1 | | | | 30 - 130 | 20 | |
| Fluorene | ND | 78 | 83 | 6.2 | | | | 30 - 130 | 20 | |
| Hexachlorobenzene | ND | 69 | 75 | 8.3 | | | | 30 - 130 | 20 | |
| Hexachlorobutadiene | ND | 66 | 71 | 7.3 | | | | 30 - 130 | 20 | |
| Hexachlorocyclopentadiene | ND | 24 | 26 | 8.0 | | | | 30 - 130 | 20 | I |
| Hexachloroethane | ND | 61 | 67 | 9.4 | | | | 30 - 130 | 20 | |
| Indeno(1,2,3-cd)pyrene | ND | 86 | 92 | 6.7 | | | | 30 - 130 | 20 | |
| Isophorone | ND | 76 | 81 | 6.4 | | | | 30 - 130 | 20 | |
| Naphthalene | ND | 64 | 68 | 6.1 | | | | 30 - 130 | 20 | |
| Nitrobenzene | ND | 70 | 76 | 8.2 | | | | 30 - 130 | 20 | |
| N-Nitrosodimethylamine | ND | 59 | 64 | 8.1 | | | | 30 - 130 | 20 | |
| N-Nitrosodi-n-propylamine | ND | 64 | 71 | 10.4 | | | | 30 - 130 | 20 | |
| N-Nitrosodiphenylamine | ND | 65 | 69 | 6.0 | | | | 30 - 130 | 20 | |
| Pentachloronitrobenzene | ND | 74 | 78 | 5.3 | | | | 30 - 130 | 20 | |
| Pentachlorophenol | ND | 29 | 31 | 6.7 | | | | 30 - 130 | 20 | I |
| Phenanthrene | ND | 81 | 86 | 6.0 | | | | 30 - 130 | 20 | |
| Phenol | ND | 55 | 60 | 8.7 | | | | 30 - 130 | 20 | |
| Pyrene | ND | 83 | 89 | 7.0 | | | | 30 - 130 | 20 | |
| Pyridine | ND | 24 | 17 | 34.1 | | | | 30 - 130 | 20 | I,r |
| % 2,4,6-Tribromophenol | 110 | 66 | 71 | 7.3 | | | | 30 - 130 | 20 | |
| % 2-Fluorobiphenyl | 72 | 62 | 67 | 7.8 | | | | 30 - 130 | 20 | |
| % 2-Fluorophenol | 68 | 51 | 54 | 5.7 | | | | 30 - 130 | 20 | |
| % Nitrobenzene-d5 | 74 | 65 | 72 | 10.2 | | | | 30 - 130 | 20 | |
| % Phenol-d5 | 70 | 53 | 57 | 7.3 | | | | 30 - 130 | 20 | |
| % Terphenyl-d14 | 83 | 66 | 71 | 7.3 | | | | 30 - 130 | 20 | |
| QA/QC Batch 219110, QC Sample No: BD20905 (BD21464 (50X) , BD21465) | | | | | | | | | | |
| **Volatiles** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 94 | 93 | 1.1 | 85 | 91 | 6.8 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 89 | 89 | 0.0 | 88 | 90 | 2.2 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 109 | 108 | 0.9 | 106 | 119 | 11.6 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 89 | 94 | 5.5 | 83 | 91 | 9.2 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 90 | 91 | 1.1 | 90 | 93 | 3.3 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 100 | 83 | 18.6 | 101 | 88 | 13.8 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 89 | 87 | 2.3 | 93 | 92 | 1.1 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 104 | 109 | 4.7 | 86 | 104 | 18.9 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 111 | 104 | 6.5 | 103 | 107 | 3.8 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 109 | 107 | 1.9 | 90 | 103 | 13.5 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 115 | 109 | 5.4 | 105 | 106 | 0.9 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 94 | 97 | 3.1 | 77 | 95 | 20.9 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 84 | 89 | 5.8 | 81 | 91 | 11.6 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 108 | 105 | 2.8 | 98 | 103 | 5.0 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 88 | 93 | 5.5 | 87 | 94 | 7.7 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 91 | 93 | 2.2 | 89 | 94 | 5.5 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 113 | 108 | 4.5 | 109 | 108 | 0.9 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 110 | 104 | 5.6 | 98 | 102 | 4.0 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 100 | 101 | 1.0 | 96 | 103 | 7.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD21461

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | 111 | 104 | 6.5 | 98 | 101 | 3.0 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 91 | 84 | 8.0 | 78 | 82 | 5.0 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 110 | 103 | 6.6 | 103 | 105 | 1.9 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 104 | 100 | 3.9 | 70 | 83 | 17.0 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 108 | 104 | 3.8 | 106 | 107 | 0.9 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 110 | 103 | 6.6 | 103 | 105 | 1.9 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 82 | 87 | 5.9 | 78 | 89 | 13.2 | 70 - 130 | 30 | |
| Acetone | ND | 112 | 90 | 21.8 | 44 | 45 | 2.2 | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 81 | 87 | 7.1 | 75 | 89 | 17.1 | 70 - 130 | 30 | |
| Benzene | ND | 91 | 91 | 0.0 | 91 | 93 | 2.2 | 70 - 130 | 30 | |
| Bromobenzene | ND | 107 | 104 | 2.8 | 100 | 104 | 3.9 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 87 | 89 | 2.3 | 83 | 90 | 8.1 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 89 | 90 | 1.1 | 82 | 88 | 7.1 | 70 - 130 | 30 | |
| Bromoform | ND | 83 | 83 | 0.0 | 68 | 80 | 16.2 | 70 - 130 | 30 | m |
| Bromomethane | ND | 109 | 108 | 0.9 | 97 | 99 | 2.0 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 93 | 75 | 21.4 | 100 | 85 | 16.2 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 84 | 80 | 4.9 | 79 | 82 | 3.7 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 104 | 102 | 1.9 | 100 | 102 | 2.0 | 70 - 130 | 30 | |
| Chloroethane | ND | 109 | 88 | 21.3 | 105 | 87 | 18.8 | 70 - 130 | 30 | |
| Chloroform | ND | 91 | 92 | 1.1 | 89 | 94 | 5.5 | 70 - 130 | 30 | |
| Chloromethane | ND | 92 | 94 | 2.2 | 82 | 87 | 5.9 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 91 | 94 | 3.2 | 88 | 95 | 7.7 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 88 | 88 | 0.0 | 81 | 87 | 7.1 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 94 | 92 | 2.2 | 81 | 90 | 10.5 | 70 - 130 | 30 | |
| Dibromomethane | ND | 88 | 95 | 7.7 | 84 | 93 | 10.2 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 100 | 99 | 1.0 | 77 | 78 | 1.3 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 102 | 98 | 4.0 | 102 | 103 | 1.0 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 103 | 104 | 1.0 | 98 | 107 | 8.8 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 111 | 106 | 4.6 | 109 | 108 | 0.9 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 104 | 101 | 2.9 | 102 | 102 | 0.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 65 | 65 | 0.0 | 41 | 50 | 19.8 | 70 - 130 | 30 | l,m |
| Methyl t-butyl ether (MTBE) | ND | 85 | 90 | 5.7 | 88 | 98 | 10.8 | 70 - 130 | 30 | |
| Methylene chloride | ND | 96 | 78 | 20.7 | 91 | 79 | 14.1 | 70 - 130 | 30 | |
| Naphthalene | ND | 94 | 119 | 23.5 | 69 | 104 | 40.5 | 70 - 130 | 30 | m,r |
| n-Butylbenzene | ND | 116 | 108 | 7.1 | 107 | 107 | 0.0 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 116 | 109 | 6.2 | 108 | 107 | 0.9 | 70 - 130 | 30 | |
| o-Xylene | ND | 103 | 102 | 1.0 | 100 | 102 | 2.0 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 114 | 107 | 6.3 | 106 | 105 | 0.9 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 110 | 104 | 5.6 | 109 | 108 | 0.9 | 70 - 130 | 30 | |
| Styrene | ND | 101 | 97 | 4.0 | 94 | 93 | 1.1 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 110 | 106 | 3.7 | 108 | 109 | 0.9 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 104 | 95 | 9.0 | 102 | 100 | 2.0 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 78 | 84 | 7.4 | 75 | 88 | 16.0 | 70 - 130 | 30 | |
| Toluene | ND | 91 | 90 | 1.1 | 91 | 92 | 1.1 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 103 | 102 | 1.0 | 103 | 107 | 3.8 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 86 | 87 | 1.2 | 76 | 87 | 13.5 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 93 | 91 | 2.2 | 70 | 84 | 18.2 | 70 - 130 | 30 | |
| Trichloroethene | ND | 90 | 89 | 1.1 | 84 | 85 | 1.2 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 104 | 91 | 13.3 | 99 | 90 | 9.5 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 100 | 82 | 19.8 | 102 | 87 | 15.9 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 97 | 91 | 6.4 | 90 | 87 | 3.4 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 99 | 97 | 100 | 3.0 | 95 | 99 | 4.1 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 96 | 94 | 96 | 2.1 | 94 | 95 | 1.1 | 70 - 130 | 30 | |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| % Dibromofluoromethane | 92 | 93 | 95 | 2.1 | 92 | 95 | 3.2 | 70 - 130 | 30 | |
| % Toluene-d8 | 97 | 97 | 97 | 0.0 | 98 | 97 | 1.0 | 70 - 130 | 30 | |
| QA/QC Batch 219169, QC Sample No: BD20975 (BD21461, BD21462, BD21463) | | | | | | | | | | |
| Volatiles - Ground Water | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 96 | 98 | 2.1 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 89 | 93 | 4.4 | 93 | 91 | 2.2 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 94 | 89 | 5.5 | 102 | 99 | 3.0 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 113 | 109 | 3.6 | 113 | 111 | 1.8 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 103 | 106 | 2.9 | 102 | 99 | 3.0 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 107 | 110 | 2.8 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 92 | 94 | 2.2 | 101 | 98 | 3.0 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 103 | 104 | 1.0 | 105 | 109 | 3.7 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 94 | 89 | 5.5 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 97 | 101 | 4.0 | 102 | 105 | 2.9 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 95 | 98 | 3.1 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 99 | 92 | 7.3 | 99 | 102 | 3.0 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 107 | 103 | 3.8 | 112 | 109 | 2.7 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 94 | 94 | 0.0 | 98 | 95 | 3.1 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 96 | 93 | 3.2 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 111 | 112 | 0.9 | 118 | 117 | 0.9 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 91 | 94 | 3.2 | 98 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 96 | 98 | 2.1 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 97 | 99 | 2.0 | 104 | 103 | 1.0 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 93 | 94 | 1.1 | 96 | 95 | 1.0 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 113 | >150 | NC | 132 | 126 | 4.7 | 70 - 130 | 30 | l,m |
| 2-Chlorotoluene | ND | 94 | 96 | 2.1 | 99 | 100 | 1.0 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 112 | 105 | 6.5 | 111 | 111 | 0.0 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 92 | 94 | 2.2 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 91 | 94 | 3.2 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 121 | 113 | 6.8 | 119 | 115 | 3.4 | 70 - 130 | 30 | |
| Acetone | ND | 97 | 94 | 3.1 | 99 | 90 | 9.5 | 70 - 130 | 30 | |
| Acrylonitrile | ND | 97 | 95 | 2.1 | 92 | 90 | 2.2 | 70 - 130 | 30 | |
| Benzene | ND | 107 | 110 | 2.8 | 114 | 113 | 0.9 | 70 - 130 | 30 | |
| Bromobenzene | ND | 88 | 90 | 2.2 | 97 | 96 | 1.0 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 94 | 95 | 1.1 | 93 | 91 | 2.2 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 98 | 100 | 2.0 | 105 | 102 | 2.9 | 70 - 130 | 30 | |
| Bromoform | ND | 91 | 89 | 2.2 | 93 | 92 | 1.1 | 70 - 130 | 30 | |
| Bromomethane | ND | 108 | 120 | 10.5 | 62 | 82 | 27.8 | 70 - 130 | 30 | m |
| Carbon Disulfide | ND | 107 | 111 | 3.7 | 101 | 101 | 0.0 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 77 | 81 | 5.1 | 80 | 81 | 1.2 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 97 | 100 | 3.0 | 102 | 101 | 1.0 | 70 - 130 | 30 | |
| Chloroethane | ND | 105 | 113 | 7.3 | 93 | 90 | 3.3 | 70 - 130 | 30 | |
| Chloroform | ND | 94 | 98 | 4.2 | 96 | 94 | 2.1 | 70 - 130 | 30 | |
| Chloromethane | ND | 148 | >150 | NC | 121 | 122 | 0.8 | 70 - 130 | 30 | l |
| cis-1,2-Dichloroethene | ND | 98 | 99 | 1.0 | 96 | 93 | 3.2 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 98 | 103 | 5.0 | 109 | 107 | 1.9 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 90 | 91 | 1.1 | 96 | 94 | 2.1 | 70 - 130 | 30 | |
| Dibromomethane | ND | 102 | 102 | 0.0 | 106 | 105 | 0.9 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 135 | 133 | 1.5 | 90 | 88 | 2.2 | 70 - 130 | 30 | l |
| Ethylbenzene | ND | 98 | 102 | 4.0 | 105 | 104 | 1.0 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 81 | 87 | 7.1 | 91 | 92 | 1.1 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 92 | 94 | 2.2 | 100 | 97 | 3.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD21461

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| m&p-Xylene | ND | 100 | 105 | 4.9 | 103 | 103 | 0.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 121 | 114 | 6.0 | 127 | 117 | 8.2 | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 88 | 85 | 3.5 | 93 | 91 | 2.2 | 70 - 130 | 30 | |
| Methylene chloride | ND | 101 | 102 | 1.0 | 95 | 95 | 0.0 | 70 - 130 | 30 | |
| Naphthalene | ND | 115 | 114 | 0.9 | 116 | 121 | 4.2 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 98 | 103 | 5.0 | 105 | 105 | 0.0 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 96 | 101 | 5.1 | 102 | 100 | 2.0 | 70 - 130 | 30 | |
| o-Xylene | ND | 102 | 105 | 2.9 | 105 | 105 | 0.0 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 96 | 99 | 3.1 | 101 | 99 | 2.0 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 93 | 96 | 3.2 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| Styrene | ND | 100 | 103 | 3.0 | 107 | 107 | 0.0 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 93 | 95 | 2.1 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 92 | 96 | 4.3 | 97 | 96 | 1.0 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 113 | 109 | 3.6 | 108 | 107 | 0.9 | 70 - 130 | 30 | |
| Toluene | ND | 107 | 111 | 3.7 | 114 | 111 | 2.7 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 101 | 105 | 3.9 | 98 | 97 | 1.0 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 99 | 102 | 3.0 | 106 | 104 | 1.9 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 88 | 95 | 7.7 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| Trichloroethene | ND | 99 | 105 | 5.9 | 104 | 102 | 1.9 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 110 | 112 | 1.8 | 94 | 93 | 1.1 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 103 | 104 | 1.0 | 98 | 94 | 4.2 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 137 | 142 | 3.6 | 115 | 116 | 0.9 | 70 - 130 | 30 | l |
| % 1,2-dichlorobenzene-d4 | 101 | 103 | 102 | 1.0 | 101 | 100 | 1.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 89 | 104 | 104 | 0.0 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 83 | 85 | 89 | 4.6 | 82 | 82 | 0.0 | 70 - 130 | 30 | |
| % Toluene-d8 | 103 | 104 | 102 | 1.9 | 103 | 103 | 0.0 | 70 - 130 | 30 | |

QA/QC Batch 219235, QC Sample No: BD21790 (BD21461 (10X) , BD21463 (10X) )

## Volatiles - Ground Water

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 108 | 101 | 6.7 | 98 | 100 | 2.0 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 104 | 97 | 7.0 | 98 | 99 | 1.0 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 108 | 101 | 6.7 | 98 | 97 | 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
January 28, 2013

# Sample Criteria Exceedences Report

## GBD21461 - EBC



Requested Criteria: GW

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD21461 | $8260GWR | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.0006 | 0.0006 | ug/L |
| BD21461 | $8260GWR | Isopropylbenzene | NY / TOGS - Water Quality / GA Criteria | 13 | 1.0 | 5 | 5 | ug/L |
| BD21461 | $8260GWR | 1,2,3-Trichloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.04 | 0.04 | ug/L |
| BD21461 | $8260GWR | n-Propylbenzene | NY / TOGS - Water Quality / GA Criteria | 30 | 10.0 | 5 | 5 | ug/L |
| BD21461 | $8260GWR | 1,3,5-Trimethylbenzene | NY / TOGS - Water Quality / GA Criteria | 50 | 10.0 | 5 | 5 | ug/L |
| BD21461 | $8260GWR | 1,2,4-Trimethylbenzene | NY / TOGS - Water Quality / GA Criteria | 140 | 10.0 | 5 | 5 | ug/L |
| BD21461 | $8260GWR | sec-Butylbenzene | NY / TOGS - Water Quality / GA Criteria | 5.2 | 1.0 | 5 | 5 | ug/L |
| BD21461 | $8260GWR | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.04 | 0.04 | ug/L |
| BD21461 | $8270-SIMR | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $8270-SIMR | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21461 | $PEST_GAWR | a-BHC | NY / TOGS - Water Quality / GA Criteria | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21461 | $PEST_GAWR | Chlordane | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.30 | 0.1 | 0.1 | ug/L |
| BD21461 | $PEST_GAWR | Chlordane | NY / TOGS - Water Quality / GA Criteria | ND* | 0.30 | 0.05 | 0.05 | ug/L |
| BD21461 | $PEST_GAWR | 4,4' -DDD | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21461 | $PEST_GAWR | 4,4' -DDE | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21461 | $PEST_GAWR | 4,4' -DDT | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21461 | $PEST_GAWR | Endrin | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21461 | $PEST_GAWR | Heptachlor | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.025 | 0.01 | 0.01 | ug/L |
| BD21461 | $PEST_GAWR | Heptachlor epoxide | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.025 | 0.01 | 0.01 | ug/L |
| BD21461 | $PEST_GAWR | Toxaphene | NY / TOGS - Water Quality / GA Criteria | ND* | 1.0 | 0.06 | 0.06 | ug/L |
| BD21461 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 31.4 | 0.010 | 0.1 | 0.1 | mg/L |
| BD21461 | CR-WM | Chromium | NY / TOGS - Water Quality / GA Criteria | 0.210 | 0.001 | 0.05 | 0.05 | mg/L |
| BD21461 | D-AL | Aluminum (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 0.54 | 0.01 | 0.1 | 0.1 | mg/L |
| BD21461 | D-FE | Iron (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 0.740 | 0.011 | 0.3 | 0.3 | mg/L |
| BD21461 | D-MG | Magnesium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 37.2 | 0.01 | 35 | 35 | mg/L |
| BD21461 | D-MN | Manganese (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 2.26 | 0.011 | 0.3 | 0.3 | mg/L |
| BD21461 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 75.7 | 1.1 | 20 | 20 | mg/L |
| BD21461 | FE-WM | Iron | NY / TOGS - Water Quality / GA Criteria | 97.6 | 0.010 | 0.3 | 0.3 | mg/L |
| BD21461 | MG-WM | Magnesium | NY / TOGS - Water Quality / GA Criteria | 50.3 | 0.01 | 35 | 35 | mg/L |
| BD21461 | MN-WM | Manganese | NY / TOGS - Water Quality / GA Criteria | 5.26 | 0.010 | 0.3 | 0.3 | mg/L |
| BD21461 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 76.6 | 1.0 | 20 | 20 | mg/L |
| BD21461 | NI-WM | Nickel | NY / TOGS - Water Quality / GA Criteria | 0.181 | 0.001 | 0.1 | 0.1 | mg/L |
| BD21461 | PB-WM | Lead | NY / TOGS - Water Quality / GA Criteria | 0.046 | 0.002 | 0.025 | 0.025 | mg/L |

# Sample Criteria Exceedences Report

## GBD21461 - EBC

Requested Criteria: GW
State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD21462 | $8260GWR | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.0006 | 0.0006 | ug/L |
| BD21462 | $8260GWR | 1,2,3-Trichloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.04 | 0.04 | ug/L |
| BD21462 | $8260GWR | n-Propylbenzene | NY / TOGS - Water Quality / GA Criteria | 10 | 10.0 | 5 | 5 | ug/L |
| BD21462 | $8260GWR | 1,3,5-Trimethylbenzene | NY / TOGS - Water Quality / GA Criteria | ND | 10.0 | 5 | 5 | ug/L |
| BD21462 | $8260GWR | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.04 | 0.04 | ug/L |
| BD21462 | $8270-SIMR | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $8270-SIMR | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21462 | $PEST_GAWR | a-BHC | NY / TOGS - Water Quality / GA Criteria | ND* | 0.025 | 0.01 | 0.01 | ug/L |
| BD21462 | $PEST_GAWR | Chlordane | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.30 | 0.1 | 0.1 | ug/L |
| BD21462 | $PEST_GAWR | Chlordane | NY / TOGS - Water Quality / GA Criteria | ND* | 0.30 | 0.05 | 0.05 | ug/L |
| BD21462 | $PEST_GAWR | 4,4' -DDD | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21462 | $PEST_GAWR | 4,4' -DDE | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21462 | $PEST_GAWR | 4,4' -DDT | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21462 | $PEST_GAWR | Endrin | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21462 | $PEST_GAWR | Heptachlor | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.025 | 0.01 | 0.01 | ug/L |
| BD21462 | $PEST_GAWR | Heptachlor epoxide | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.025 | 0.01 | 0.01 | ug/L |
| BD21462 | $PEST_GAWR | Toxaphene | NY / TOGS - Water Quality / GA Criteria | ND* | 1.0 | 0.06 | 0.06 | ug/L |
| BD21462 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 134 | 0.10 | 0.1 | 0.1 | mg/L |
| BD21462 | AS-WM | Arsenic | NY / TOGS - Water Quality / GA Criteria | 0.077 | 0.004 | 0.025 | 0.025 | mg/L |
| BD21462 | BA-WM | Barium | NY / TOGS - Water Quality / GA Criteria | 1.74 | 0.002 | 1 | 1 | mg/L |
| BD21462 | BE-WM | Beryllium | NY / TOGS - Water Quality / GA Criteria | 0.009 | 0.001 | 0.003 | 0.003 | mg/L |
| BD21462 | CR-WM | Chromium | NY / TOGS - Water Quality / GA Criteria | 1.24 | 0.001 | 0.05 | 0.05 | mg/L |
| BD21462 | CU-WM | Copper | NY / TOGS - Water Quality / GA Criteria | 0.718 | 0.005 | 0.2 | 0.2 | mg/L |
| BD21462 | D-AL | Aluminum (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 1.51 | 0.01 | 0.1 | 0.1 | mg/L |
| BD21462 | D-FE | Iron (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 4.48 | 0.011 | 0.3 | 0.3 | mg/L |
| BD21462 | D-MN | Manganese (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 1.07 | 0.001 | 0.3 | 0.3 | mg/L |
| BD21462 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 83.9 | 1.1 | 20 | 20 | mg/L |
| BD21462 | FE-WM | Iron | NY / TOGS - Water Quality / GA Criteria | 568 | 0.10 | 0.3 | 0.3 | mg/L |
| BD21462 | MG-WM | Magnesium | NY / TOGS - Water Quality / GA Criteria | 101 | 0.10 | 35 | 35 | mg/L |
| BD21462 | MN-WM | Manganese | NY / TOGS - Water Quality / GA Criteria | 6.89 | 0.010 | 0.3 | 0.3 | mg/L |
| BD21462 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 83.8 | 1.0 | 20 | 20 | mg/L |
| BD21462 | NI-WM | Nickel | NY / TOGS - Water Quality / GA Criteria | 0.572 | 0.001 | 0.1 | 0.1 | mg/L |

# Sample Criteria Exceedences Report

## GBD21461 - EBC

Requested Criteria: GW
State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD21462 | PB-WM | Lead | NY / TOGS - Water Quality / GA Criteria | 0.283 | 0.002 | 0.025 | 0.025 | mg/L |
| BD21463 | $8260GWR | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.0006 | 0.0006 | ug/L |
| BD21463 | $8260GWR | Isopropylbenzene | NY / TOGS - Water Quality / GA Criteria | 15 | 1.0 | 5 | 5 | ug/L |
| BD21463 | $8260GWR | 1,2,3-Trichloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.04 | 0.04 | ug/L |
| BD21463 | $8260GWR | n-Propylbenzene | NY / TOGS - Water Quality / GA Criteria | 30 | 10.0 | 5 | 5 | ug/L |
| BD21463 | $8260GWR | 1,3,5-Trimethylbenzene | NY / TOGS - Water Quality / GA Criteria | 51 | 10.0 | 5 | 5 | ug/L |
| BD21463 | $8260GWR | 1,2,4-Trimethylbenzene | NY / TOGS - Water Quality / GA Criteria | 140 | 10.0 | 5 | 5 | ug/L |
| BD21463 | $8260GWR | sec-Butylbenzene | NY / TOGS - Water Quality / GA Criteria | 5.8 | 1.0 | 5 | 5 | ug/L |
| BD21463 | $8260GWR | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 1.0 | 0.04 | 0.04 | ug/L |
| BD21463 | $8270-SIMR | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $8270-SIMR | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| BD21463 | $PEST_GAWR | a-BHC | NY / TOGS - Water Quality / GA Criteria | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21463 | $PEST_GAWR | Chlordane | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.30 | 0.1 | 0.1 | ug/L |
| BD21463 | $PEST_GAWR | Chlordane | NY / TOGS - Water Quality / GA Criteria | ND* | 0.30 | 0.05 | 0.05 | ug/L |
| BD21463 | $PEST_GAWR | 4,4' -DDD | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21463 | $PEST_GAWR | 4,4' -DDE | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21463 | $PEST_GAWR | 4,4' -DDT | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21463 | $PEST_GAWR | Endrin | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.050 | 0.01 | 0.01 | ug/L |
| BD21463 | $PEST_GAWR | Heptachlor | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.025 | 0.01 | 0.01 | ug/L |
| BD21463 | $PEST_GAWR | Heptachlor epoxide | NY / TAGM - Pest/Herb/PCBs / Groundwater Standards | ND* | 0.025 | 0.01 | 0.01 | ug/L |
| BD21463 | $PEST_GAWR | Toxaphene | NY / TOGS - Water Quality / GA Criteria | ND* | 1.0 | 0.06 | 0.06 | ug/L |
| BD21463 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 36.3 | 0.10 | 0.1 | 0.1 | mg/L |
| BD21463 | CR-WM | Chromium | NY / TOGS - Water Quality / GA Criteria | 0.322 | 0.001 | 0.05 | 0.05 | mg/L |
| BD21463 | D-AL | Aluminum (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 1.42 | 0.01 | 0.1 | 0.1 | mg/L |
| BD21463 | D-FE | Iron (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 3.03 | 0.011 | 0.3 | 0.3 | mg/L |
| BD21463 | D-MG | Magnesium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 38.5 | 0.01 | 35 | 35 | mg/L |
| BD21463 | D-MN | Manganese (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 2.15 | 0.011 | 0.3 | 0.3 | mg/L |
| BD21463 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 72.7 | 1.1 | 20 | 20 | mg/L |
| BD21463 | FE-WM | Iron | NY / TOGS - Water Quality / GA Criteria | 124 | 0.010 | 0.3 | 0.3 | mg/L |
| BD21463 | MG-WM | Magnesium | NY / TOGS - Water Quality / GA Criteria | 53.7 | 0.01 | 35 | 35 | mg/L |
| BD21463 | MN-WM | Manganese | NY / TOGS - Water Quality / GA Criteria | 6.69 | 0.010 | 0.3 | 0.3 | mg/L |
| BD21463 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 82.1 | 1.0 | 20 | 20 | mg/L |

# Sample Criteria Exceedences Report

## GBD21461 - EBC



Requested Criteria: GW

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| BD21463 | NI-WM | Nickel | NY / TOGS - Water Quality / GA Criteria | 0.239 | 0.001 | 0.1 | 0.1 | mg/L |
| BD21463 | PB-WM | Lead | NY / TOGS - Water Quality / GA Criteria | 0.050 | 0.002 | 0.025 | 0.025 | mg/L |

**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

# NY Temperature Narration

**January 28, 2013**

**SDG I.D.: GBD21461**

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

# NY/NJ CHAIN OF CUSTODY RECORD

CONTRL

Temp | Pg 1 of 1

**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**

**Data Delivery:**
☐ Fax #:
☒ Email: KBRUSSEE@EBCINCNY.COM

Customer: EBC 1808
Address: 1808 MIDDLE COUNTRY RD
RIDGE, NY 11961

Project: 6085 MARCY AVE
Report to: EBC
Invoice to: EBC

Project P.O:
Phone #: 631.504.6000
Fax #: 631.924.2970

Sampler's Signature: [signature] Date: 1/17

**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 8260 | SVOCs 8270 | TAL Metals - Total & Dissolved | Pesticides / PCBs | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [X] HCl | GL Amber 1000ml [X] As is [ ] H2SO4 | PL As is [X] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21461 | MW1 | GW | 1/17 | | X | X | X | X | | | | 3 | 3 | 1 | | 1 | | |
| 21462 | MW3 | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | | | | 3 | 3 | 1 | | 1 | | |
| 21463 | DUPLICATE | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | | | | 3 | 3 | 1 | | 1 | | |
| 21464 | TRIP BLANK HI | X | — | | X | | | | | | | 1 | | | | | | |
| 21465 | TRIP BLANK LO | X | — | | X | | | | | | | 1 | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 1/18 | 9:30 |
| [signature] | [signature] | 1-18-13 | 1549 |

**Comments, Special Requirements or Regulations:**

**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.

**Wednesday, January 30, 2013**

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

**Project ID: 683 MARCY AVE BROOKLYN**
**Sample ID#s: BD21457 - BD21460**

**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**

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

January 30, 2013

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: | KW | 01/17/13 | 12:16 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21457
Phoenix ID: BD21457

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG1

| 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* | 01/21/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 1.74 | *0.166* | 10.4 | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.38 | *0.244* | 1.56 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acetone | 22.3 | *0.421* | 52.9 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzene | ND | *0.313* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG1

Phoenix I.D.: BD21457

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Disulfide | 0.41 | *0.321* | 1.28 | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Tetrachloride | 0.08 | *0.040* | 0.503 | *0.25* | 01/21/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroform | 0.26 | *0.205* | 1.27 | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.55 | *0.202* | 2.72 | *1.00* | 01/21/13 | KCA | TO15 | |
| Ethanol | 16.5 | *0.531* | 31.1 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethyl acetate | 0.57 | *0.278* | 2.05 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethylbenzene | ND | *0.230* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Heptane | ND | *0.244* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexane | 0.39 | *0.284* | 1.37 | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylalcohol | 1.53 | *0.407* | 3.76 | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| m,p-Xylene | 0.37 | *0.230* | 1.60 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | 0.89 | *0.339* | 2.62 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Methylene Chloride | 1.3 | *0.288* | 4.51 | *1.00* | 01/21/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| o-Xylene | ND | *0.230* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Tetrachloroethene | 0.29 | *0.037* | 1.96 | *0.25* | 01/21/13 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Toluene | 0.67 | *0.266* | 2.52 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichloroethene | 0.07 | *0.047* | 0.376 | *0.25* | 01/21/13 | KCA | TO15 | |
| Trichlorofluoromethane | 0.56 | *0.178* | 3.14 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 107 | *%* | 107 | *%* | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Phoenix I.D.: BD21457
Client ID: SG1

| 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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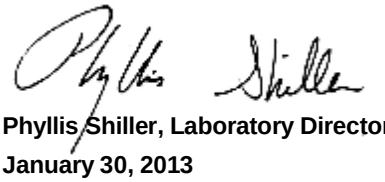

**Phyllis Shiller, Laboratory Director**
**January 30, 2013**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

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

January 30, 2013

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: | KW | 01/17/13 | 12:15 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21457
Phoenix ID: BD21458

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG2

| 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* | 01/21/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 4.01 | *0.166* | 24.1 | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.82 | *0.244* | 3.36 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acetone | 31.4 | *0.421* | 74.5 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzene | ND | *0.313* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG2

Phoenix I.D.: BD21458

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Tetrachloride | ND | *0.040* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroform | 0.28 | *0.205* | 1.37 | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.55 | *0.202* | 2.72 | *1.00* | 01/21/13 | KCA | TO15 | |
| Ethanol | 29.3 | *0.531* | 55.2 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethyl acetate | 0.9 | *0.278* | 3.24 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethylbenzene | ND | *0.230* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Heptane | ND | *0.244* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexane | ND | *0.284* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylalcohol | 3.1 | *0.407* | 7.62 | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| m,p-Xylene | 0.45 | *0.230* | 1.95 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | 1.05 | *0.339* | 3.09 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Methylene Chloride | 0.31 | *0.288* | 1.08 | *1.00* | 01/21/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| o-Xylene | ND | *0.230* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Tetrachloroethene | 0.19 | *0.037* | 1.29 | *0.25* | 01/21/13 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Toluene | 0.77 | *0.266* | 2.90 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| Trichlorofluoromethane | 0.61 | *0.178* | 3.42 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 105 | *%* | 105 | *%* | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Phoenix I.D.: BD21458
Client ID: SG2

| 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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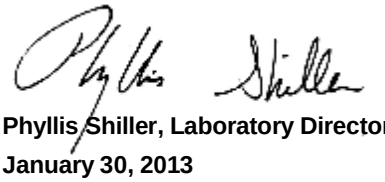

**Phyllis Shiller, Laboratory Director**
**January 30, 2013**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

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

NY # 11301

# Analysis Report

January 30, 2013

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: | KW | 01/17/13 | 12:16 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21457
Phoenix ID: BD21459

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG3

| 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* | 01/21/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 0.22 | *0.204* | 1.08 | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 2.39 | *0.166* | 14.4 | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.87 | *0.244* | 3.56 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acetone | 26.1 | *0.421* | 62.0 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzene | ND | *0.313* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG3

Phoenix I.D.: BD21459

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Disulfide | ND | *0.321* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Tetrachloride | ND | *0.040* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroform | 0.85 | *0.205* | 4.15 | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.47 | *0.202* | 2.32 | *1.00* | 01/21/13 | KCA | TO15 | |
| Ethanol | 21.6 | *0.531* | 40.7 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethyl acetate | 0.67 | *0.278* | 2.41 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethylbenzene | 0.42 | *0.230* | 1.82 | *1.00* | 01/21/13 | KCA | TO15 | |
| Heptane | 0.87 | *0.244* | 3.56 | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexane | ND | *0.284* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylalcohol | 2.36 | *0.407* | 5.80 | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| m,p-Xylene | 1.12 | *0.230* | 4.86 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | 0.84 | *0.339* | 2.48 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Methylene Chloride | ND | *0.288* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| o-Xylene | 0.65 | *0.230* | 2.82 | *1.00* | 01/21/13 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Tetrachloroethene | 1.16 | *0.037* | 7.86 | *0.25* | 01/21/13 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Toluene | 1.22 | *0.266* | 4.59 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| Trichlorofluoromethane | 0.61 | *0.178* | 3.42 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 103 | % | 103 | % | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Phoenix I.D.: BD21459
Client ID: SG3

| 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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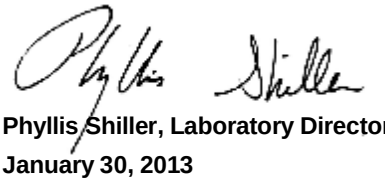

**Phyllis Shiller, Laboratory Director**
**January 30, 2013**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

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

January 30, 2013

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: | KW | 01/17/13 | 12:16 |
| Location Code: | EBC | Received by: | SW | 01/18/13 | 15:49 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD21457
Phoenix ID: BD21460

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG4

| 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* | 01/21/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 2.96 | *0.166* | 17.8 | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.42 | *0.244* | 1.72 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acetone | 20.4 | *0.421* | 48.4 | *1.00* | 01/21/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzene | ND | *0.313* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG4

Phoenix I.D.: BD21460

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Disulfide | 0.35 | *0.321* | 1.09 | *1.00* | 01/21/13 | KCA | TO15 | |
| Carbon Tetrachloride | 0.05 | *0.040* | 0.314 | *0.25* | 01/21/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloroform | ND | *0.205* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.41 | *0.202* | 2.03 | *1.00* | 01/21/13 | KCA | TO15 | |
| Ethanol | 21.8 | *0.531* | 41.0 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethyl acetate | 0.71 | *0.278* | 2.56 | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Ethylbenzene | ND | *0.230* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Heptane | ND | *0.244* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Hexane | ND | *0.284* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylalcohol | 2.47 | *0.407* | 6.07 | *1.00* | 01/21/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| m,p-Xylene | 0.6 | *0.230* | 2.60 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | 1.22 | *0.339* | 3.60 | *1.00* | 01/21/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Methylene Chloride | 0.36 | *0.288* | 1.25 | *1.00* | 01/21/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| o-Xylene | 0.24 | *0.230* | 1.04 | *1.00* | 01/21/13 | KCA | TO15 | |
| Propylene | ND | *0.581* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Tetrachloroethene | 0.19 | *0.037* | 1.29 | *0.25* | 01/21/13 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *1.00* | 01/21/13 | KCA | TO15 | 1 |
| Toluene | 0.65 | *0.266* | 2.45 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichloroethene | ND | *0.047* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| Trichlorofluoromethane | 0.42 | *0.178* | 2.36 | *1.00* | 01/21/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 01/21/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 01/21/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 103 | *%* | 103 | *%* | 01/21/13 | KCA | TO15 | |

Project ID: 683 MARCY AVE BROOKLYN
Client ID: SG4

Phoenix I.D.: BD21460

| 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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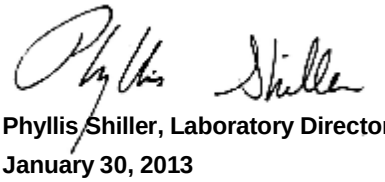


**Phyllis Shiller, Laboratory Director**
**January 30, 2013**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

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

January 30, 2013

## QA/QC Data

SDG I.D.: GBD21457

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 219769, QC Sample No: BD21457 (BD21457, BD21458, BD21459, BD21460) | | | | | | | | | | |
| **Volatiles** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ND | 112 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,1-Trichloroethane | ND | ND | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 98 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,2-Trichloroethane | ND | ND | 109 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1-Dichloroethane | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1-Dichloroethene | ND | ND | 107 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2,4-Trichlorobenzene | ND | ND | 103 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2,4-Trimethylbenzene | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dibromoethane(EDB) | ND | ND | 113 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichlorobenzene | ND | ND | 90 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichloroethane | ND | ND | 101 | 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 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3,5-Trimethylbenzene | ND | ND | 96 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3-Butadiene | ND | ND | 95 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3-Dichlorobenzene | ND | ND | 94 | 10.4 | 10.5 | 1.74 | 1.75 | 0.6 | 70 - 130 | 20 |
| 1,4-Dichlorobenzene | ND | ND | 91 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,4-Dioxane | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 2-Hexanone(MBK) | ND | ND | 109 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Ethyltoluene | ND | ND | 98 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Isopropyltoluene | ND | ND | 114 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Methyl-2-pentanone(MIBK) | ND | ND | 120 | 2.17 | 1.43 | 0.53 | 0.35 | 40.9 | 70 - 130 | 20 |
| Acetone | ND | ND | 117 | 52.9 | 50.8 | 22.3 | 21.4 | 4.1 | 70 - 130 | 20 |
| Acrylonitrile | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Benzene | ND | ND | 86 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Benzyl chloride | ND | ND | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromodichloromethane | ND | ND | 118 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromoform | ND | ND | 114 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromomethane | ND | ND | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Carbon Disulfide | ND | ND | 92 | 1.62 | 1.28 | 0.52 | 0.41 | 23.7 | 70 - 130 | 20 |
| Carbon Tetrachloride | ND | ND | 104 | 0.503 | 0.503 | 0.08 | 0.08 | 0.0 | 70 - 130 | 20 |
| Chlorobenzene | ND | ND | 96 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Chloroethane | ND | ND | 98 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Chloroform | ND | ND | 101 | 1.27 | 1.22 | 0.26 | 0.25 | 3.9 | 70 - 130 | 20 |
| Chloromethane | ND | ND | 90 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Cis-1,2-Dichloroethene | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| cis-1,3-Dichloropropene | ND | ND | 116 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Cyclohexane | ND | ND | 85 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Dibromochloromethane | ND | ND | 124 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Dichlorodifluoromethane | ND | ND | 104 | 2.72 | 2.92 | 0.55 | 0.59 | 7.0 | 70 - 130 | 20 |
| Ethanol | ND | ND | 96 | 31.1 | 31.2 | 16.5 | 16.6 | 0.6 | 70 - 130 | 20 |

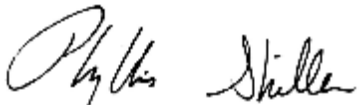
# QA/QC Data

SDG I.D.: GBD21457

| 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 | 92 | 2.05 | 1.84 | 0.57 | 0.51 | 11.1 | 70 - 130 | 20 |
| Ethylbenzene | ND | ND | 96 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Heptane | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Hexachlorobutadiene | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Hexane | ND | ND | 90 | 1.41 | 1.06 | 0.4 | 0.3 | 28.6 | 70 - 130 | 20 |
| Isopropylalcohol | ND | ND | 98 | 3.76 | ND | 1.53 | ND | NC | 70 - 130 | 20 |
| Isopropylbenzene | ND | ND | 105 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| m,p-Xylene | ND | ND | 102 | 1.74 | 1.48 | 0.4 | 0.34 | 16.2 | 70 - 130 | 20 |
| Methyl Ethyl Ketone | ND | ND | 93 | 2.62 | 2.59 | 0.89 | 0.88 | 1.1 | 70 - 130 | 20 |
| Methyl tert-butyl ether(MTBE) | ND | ND | 98 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Methylene Chloride | ND | ND | 95 | 4.51 | 3.85 | 1.3 | 1.11 | 15.8 | 70 - 130 | 20 |
| n-Butylbenzene | ND | ND | 109 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| o-Xylene | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Propylene | ND | ND | 89 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| sec-Butylbenzene | ND | ND | 99 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Styrene | ND | ND | 92 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Tetrachloroethene | ND | ND | 111 | 2.24 | 1.96 | 0.33 | 0.29 | 12.9 | 70 - 130 | 20 |
| Tetrahydrofuran | ND | ND | 84 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Toluene | ND | ND | 105 | 2.52 | 2.03 | 0.67 | 0.54 | 21.5 | 70 - 130 | 20 |
| Trans-1,2-Dichloroethene | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| trans-1,3-Dichloropropene | ND | ND | 103 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Trichloroethene | ND | ND | 109 | 0.322 | 0.322 | 0.06 | 0.06 | 0.0 | 70 - 130 | 20 |
| Trichlorofluoromethane | ND | ND | 110 | 3.14 | 3.03 | 0.56 | 0.54 | 3.6 | 70 - 130 | 20 |
| Trichlorotrifluoroethane | ND | ND | 108 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Vinyl Chloride | ND | ND | 96 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| % Bromofluorobenzene | 104 | 104 | 103 | 107 | 106 | 107 | 106 | 0.9 | 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
January 30, 2013

# Sample Criteria Exceedences Report

## GBD21457 - EBC



Requested Criteria: None

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|

*** No Data to Display ***

**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

# NY Temperature Narration

**January 30, 2013**

**SDG I.D.: GBD21457**

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

# CHAIN OF CUSTODY RECORD AIR ANALYSES

Updated 1/18 — Pg 1 of 1

**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) 645-1102**

**Data Delivery:**
☐ Fax #:
☒ Email: KBrussee@EBCINC.NY.com

| | | | | | |
|---|---|---|---|---|---|
| Report to: | EBC | Invoice to: | EBC | Project Name: | 683 Marcy Ave |
| Address: | 1808 Middle Country Rd. Ridge, NY 11961 | Address: | | Location: | Brooklyn, NY |
| Project Mgr: | Kevin Brussee | P.O. # | | State: | |
| Phone # | 631.504.6000 | Quote # | | Sampled by: | KW |

| 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 | | | | Is Canister Returned Unused? Y/N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LAB USE ONLY | | | | | | | | | | | MATRIX | | | | ANALYSES | | | | | |
| 21457 | SG1 | 483 | 6 | 30 | -1 | 03414 | 40 | 1020 | 1216 | 1/17 | 30 | 5 | | X | | | | X | | | | N |
| 21458 | SG2 | 13639 | 6 | 30 | -3 | 05350 | 40 | 1005 | 1215 | 1/17 | 30 | 5 | | X | | | | X | | | | N |
| 21459 | SG3 | 13647 | 6 | 30 | 0 | 02865 | 40 | 1015 | 1201 | 1/17 | 29 | 2 | | X | | | | X | | | | N |
| 21460 | SG4 | 218 | 6 | 30 | 0 | 02871 | 40 | 100 | 1203 | 1/17 | 29 | 3 | | X | | | | X | | | | N |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 1/18 | 9:30 |
| | | 1-18-13 | 1549 |

**Criteria Requested:** **Deliverable:**
RCP ☐
MCP ☐
State where samples collected: NY

**Data Format:**
Excel ☒ Equis ☐
PDF ☒ Other: ☐
GISKey ☐

**SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:**

*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: 1/18