



Remedial Investigation Report

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Disclose Only to Authorized Parties**

Conducted at:

**Huxley Envelope Site
145 West Street
Greenpoint, New York 11222
Brownfield Cleanup Program Site #C224147**

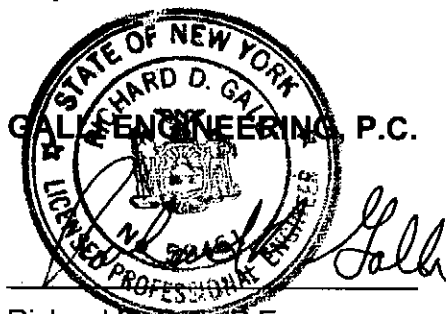
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May 24, 2013



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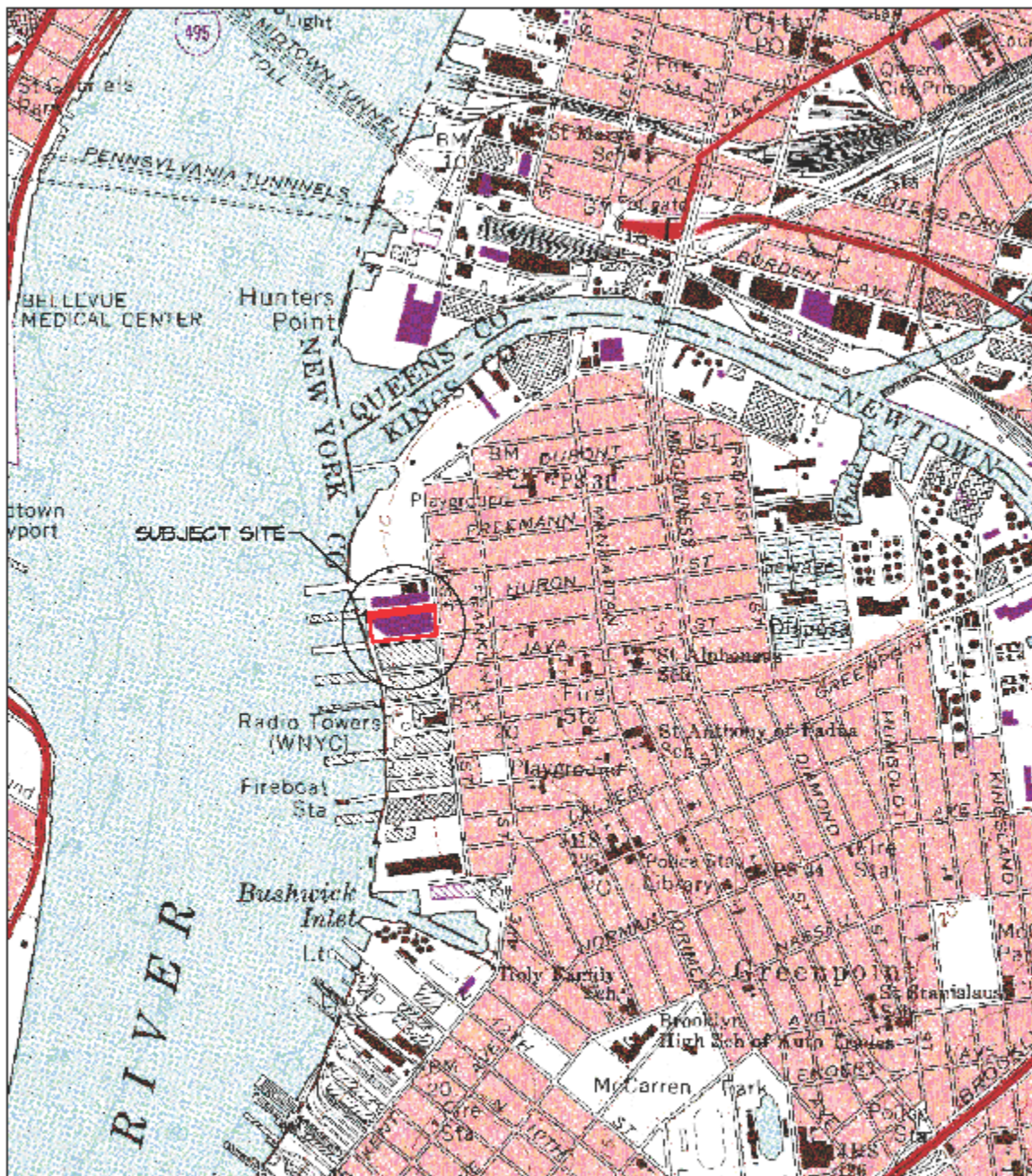
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1.0 INTRODUCTION

This Remedial Investigation Report (RIR) has been prepared by Galli Engineering, P.C. (Galli) on behalf of 145 West Street, LLC to present the results of the Remedial Investigation of the site as described in the approved Remedial Investigation Work Plan (RIWP). The project location and surrounding vicinity are shown on Figure 1 – Site Vicinity Map. The project Site includes the entire city block bounded by Huron Street, West Street, India Street, and the East River, in Brooklyn, NY.



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JOB NO.	0815-01-003
DATE	8/18/11
SCALE	AS SHOWN BY
N.T.S.	KLB
CREATED BY	KLK
JR	

145 WEST STREET LLC

FIGURE 1 – SITE LOCATION MAP

2.0 PREVIOUS INVESTIGATIONS & PHYSICAL SETTING

2.1 BACKGROUND

The Site consists of approximately 2.83 acres, owned by 145 West Street, LLC (Block 2530 Lot 1) and 157-159 West Street, LLC (Block 2530 Lots 55 and 56) (collectively Lots 1, 55 and 56 constitute the “Site”). It is important to note that 145 West Street, LLC is the BCP Volunteer, since members in 157-159 West Street, LLC are identical, and the parcels owned by this entity will eventually be transferred to 145 West Street, LLC.

The Site is an approximately 123,000 square foot property located at 143-159 West Street in the Greenpoint section of the Borough of Brooklyn, New York. The Brownfield Cleanup Program Site (BCP Site) consists of the entire city block bounded by Huron Street, West Street, India Street, and the East River, in Brooklyn, NY.

The Site is comprised of a single-story vacant warehouse building and rear asphalt-paved loading area at 143-155 West Street (Lot 1) and two two-story buildings at 157 West Street (Lot 56) and 159 West Street (Lot 55). The building at 159 West Street also contains a basement.

Lot 1 contains a single-story warehouse building [approx. 96,000 square feet (“sf”)], constructed about 1970. The site is now inactive, but was occupied from 1995 through about 2006 by Variety Accessories, Inc., a maker of holiday decorations and ornaments. From 1970 through 1995, this lot was occupied by Huxley Envelope Corp., an envelope manufacturer. Prior to that, the lot contained four one-story office buildings and an adjoining lumber yard. A 20,000-gallon heating oil UST was closed in place in 1994 by Langan Engineering & Environmental Services (Langan) when the facility switched to from oil to natural gas heat. Langan was provided with spill and tank closure documentation from DEC, which was included in the BCP Application for this Site.

Lot 55 (159 West Street) contained a seafood distribution facility, approximately 2,500 sf, which includes a loading area and refrigerated storage units on the ground floor, an office on the second floor, and a storage area in the basement. The building was constructed in 1931.

Lot 56 (157 West Street) contains a single unoccupied, two-story building. The building formerly contained a garage on the first floor and a mezzanine on the second floor. The building was constructed in 1931.

The Site is located in the area that was rezoned in 2005 during a rezoning process known as the "Greenpoint-Williamsburg Rezoning". Pursuant to this Rezoning, waterfront blocks in the Greenpoint-Williamsburg area are subject to the Zoning Resolution's Article VI, Chapter 2, Special Regulations Applying in the Waterfront Area (the "Waterfront Regulations"), which include specific requirements in ZR Section 62-831, the BK-1 Waterfront Access Plan (WAP) for Greenpoint-Williamsburg. Together, the WAP and the Rezoning are anticipated to facilitate a gradual transition in the area's character, with a reduction in underutilized warehouse, storage and auto-related space and an increase in residential, retail, and community facility space. The Rezoning also requires the rebuilding of the bulkhead and outfalls, development of a public shore promenade and park located along the East River waterfront, all to be paid for by each parcel owner as a condition of redevelopment, and which for this Site may be required components of the remediation as well.

The Site was identified as Potential Development Site #34 in the Greenpoint Williamsburg Rezoning Final Environmental Impact Statement. Due to the industrial history of this Site, an "E" designation was associated with the Site, which requires that an environmental testing and sampling protocol be conducted before a building permit will be issued.

Predominant land uses within a quarter-mile of the Site include industrial, residential and scattered institutional uses. Industrial and warehousing uses are located to the north and south, along the waterfront, while residential uses are located to the east of the Site. Manhattan and Greenpoint Avenues are the two closest commercial corridors to the Site with scattered commercial uses. Immediately to the north of the project site is a two story warehouse. Also to the north of the Site is the Greenpoint Lumber Exchange Site- a 22-acre waterfront site located between Green and Clay Streets used for vehicle and open storage. To the east of the Site are older multi-family attached residential buildings, a few vacant buildings and vehicle open storage. There are scattered institutional uses near the Site including the Church of the Ascension and St. Elias Roman Catholic Church, both on Kent Street between Manhattan

Avenue and Franklin Street; St. Johns German Lutheran Church on Milton Street between

Franklin and Manhattan Avenues; and, the John Smolenski Memorial Democratic Club on Java Street between Franklin and Manhattan Avenues.

The Site is located within the City's designated coastal zone. The project site is adjacent to a National Wetland Inventory (NWI) mapped tidal wetland. The shoreline along the project site consists primarily of urban bulkhead and the outfall for the Newtown Creek WPCP. This type of urban structural shoreline significantly limits the potential for higher quality tidal wetlands such as tidal marsh or submerged aquatic vegetation.

2.2 PHYSICAL SETTING

According to the United States Geological Survey (USGS) Brooklyn, N.Y. 7.5-Minute Quadrangle Map, dated 1967 and revised 1979, the elevation of the site is approximately 10 feet above mean sea level. The topography of the site and surrounding area slopes to the West towards the East River.

Pleistocene glacial activity modified the landscapes and surficial features of Brooklyn, Queens, and the remainder of Long Island. The glaciation scoured uplands areas and deposited varying amounts of till (an unsorted mixture of sand, clay and boulders) across the lowlands and valleys.

The area of Brooklyn in which the Site is located is underlain by glacial deposits known as ground moraine. The ground moraine is a widespread dense layer of till material that typically consists of clay, sand and boulders. Bedrock outcrops were not observed on the project site.

Based on results of Langan's 2005 geotechnical investigation of the Site, it is underlain with 6 feet of fill material, which consists of sand with gravel, silt, organic material and construction debris. The bottom depth of the fill material increases towards the East River shoreline. The western portion of the property contains a 2 ft to 7 ft thick layer of organic silty clay that underlies the historic fill. A silty sand layer extends from the bottom of the fill and clay to approximately 40 ft to 50 ft below surface grade. The eastern portion of the property also contains a brown clay layer located within or below the silty sand to depths of about 40 ft below grade. A fine silty sand layer extends from the bottom of the clay and silty sand to the top of decomposed rock between 70 ft and 85 ft below surface grade.

2.2.1 Geology

Brooklyn and Queens at the western end of Long Island are underlain by Cretaceous

sedimentary formations consisting of sands and clay that strike northeast and dip gently to the southeast. These formations consist of the Magothy Formation, the Raritan Formation and the Lloyd Sand Member.

Resting unconformably on top of these sands and clays and forming the highest elevation is a belt of glacially deposited debris composed of an unsorted, unstratified mixture of boulders, sand, silt and clay consisting of the Upper Pleistocene deposits, the Gardners Clay and the Jameco Gravel. This debris was deposited during the Pleistocene when the area was covered by a massive glacial ice sheet. In the vicinity of New York, the ice was moving in a generally southerly direction, bringing with it a large load of detached bedrock, sediment and soil that it had scoured from more northerly regions. This debris was deposited at the periphery of the glacier forming a belt of deposits known as a terminal moraine.

Sloping gently southeastward from the edge of the terminal moraine in Brooklyn and Queens is an apron of sediment (outwash plain) that slopes very gently toward the Atlantic Ocean. This rests on the underlying inclined sedimentary layers and was formed through the deposition of sand, silt and clay by streams that are carrying melt waters from edge of the glacier.

2.2.2 Site Bedrock

Bedrock in the area consists of two formations, the Cambro-Ordovician Hartland Formation and the Cambro-Ordovician Ravenswood Granodiorite. Both formations are unconformably overlain by the above glacial and sedimentary deposits. In the subject area, regional descriptions indicate that the Upper Pleistocene deposits unconformably overly bedrock and the Cretaceous deposit subcrop appear to the southeast.

According to the USGS Bedrock and Engineering Geologic Maps on New York County and parts of Kings and Queens Counties, dated 1994, the Site straddles a bedrock contact between

the Cambrian-Ordovician Ravenswood Granodiorite on the northwest portion of the site and the Hartland Formation on the remainder of the property. The Ravenswood Granodiorite consists of mica-quartz-feldspar gneiss, and the Hartland Formation is characterized by granulite, mica schist and amphibolite. According to a geotechnical investigation performed by Langan in 2005, bedrock at the Site is located between 70 ft and 100 ft below surface grade.

2.2.3 Groundwater

The depths measured to groundwater were found to be 7'-12' in previous investigations. Groundwater flow direction at the Site was generally found to be to the west and in the direction of the East River. There were not enough data or monitoring points from previous investigations to evaluate seasonal groundwater fluctuations and overburden/bedrock groundwater relationships.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Each of the three of these lot (Lots 1, 55, and 56) that constitute the Site have been designated as sites with potential environmental impacts by New York City Dept. of Environmental Protection (“E” designated sites) because, based on documented past use industrial uses on each lot, the potential exists for environmental contamination to be present. The “E” designation is a mechanism which ensures that no significant adverse impacts would result from a proposed action until remedial steps are first undertaken prior to the development of an “E” overlay zone and before a building permit is issued.

A number of previous investigations have been conducted on the Site by Langan as described in the BCP Application and attached thereto. These include:

- **Environmental Site Assessment (ESA) at 145 West Street (Lot 1), (November 1994);**

In November 1994, EEA inspected and documented operations at the existing Huxley Envelope facility. Solvents, inks, waste solvent, photo developing solutions, compressor oil and waste compressor oil were all being used and/or generated at this time as documented in this report from visual observations. The presence of 5-6 floor drains was documented, and the manager of Huxley Envelope at the time did not know the end point of the drains or how any discharges into the drains was being handled. The presence of a large 20,000 heating oil tank and chemical storage tanks was also documented.

According to page 11 of this initial Phase I Report, Huxley produced solvent waste materials during on-site printing operations. Huxley also produced photo developing waste, compressor oil waste and degreasing waste. Manifests for off-site disposal of this material were produced to EEA dating back to 1985, but the facility was in business at the Site since 1970, and no records of disposal prior to 1985 were produced. Sloppy housekeeping practices were noted (e.g. staining near utility sinks which could migrate to drains). The Report stated that according to EPA records, Huxley Envelope Corp. generated 110 gallons per year of halogenated F001 solvent waste. See 1994 EEA Phase I Report and Exhibit I, Former Use/Recognized Environmental Conditions Map for location of tanks and drains in storage areas.

A 1992 spill is documented in the Report related to liquefied ink wastes leaking into the adjacent East River. Spill #9203518 related to a reported sheen on the East River emanating from the facility. The NYSDEC and the Coast Guard inspected the sheen’s origin, and documented it

was coming from ink wastes that were being disposed by Huxley in outside dumpsters near the River. The company was instructed to cease dumping these materials in exterior dumpsters. The on-line information related to this spill did not specify it was an ink spill, but rather suggests it was a petroleum related spill, and notes the spill was closed the same day because Huxley allegedly promised not to dump the ink wastes in the dumpster any longer. However, this practice was likely occurring for a period of 22 years dating back to 1970, and NYSDEC required no investigation of the area in and around the dumpster.

This report indicates that a 20,000-gallon heating oil UST failed a tightness test in September 1994, but no spill report was noted to have been made in the report. Shortly after this Report was prepared, however, someone must have reported the spill because there are two 1994 documented spill numbers relating to this UST.

- **Phase I ESA on Lots 55/56, 155 West Street, (Rev. March 31, 2006);**

A November 2006 (revised March 2006) Phase I was prepared by Langan for Bear Sterns and a prospective purchaser at the time the last tenant to occupy the Site was present - Variety Accessories, Inc. According to page 8, Variety's manufacturing activities included the fabrication of ribbons and ornaments from pre-printed textile materials with the use of pneumatic and electrical machines and air brushing equipment for painting.

A new 10,000 above ground storage tank (AST) was allegedly installed at the site in 1994 to replace the closed in place 20,000 gallon heating tank, but this AST was no longer on the property in 2005/2006 when this Phase I investigation was performed. The facility was heated by gas at this time. However, Langan identified the still present 20,000 gallon UST, a lacquer storage and handling area, floor drains and asbestos as recognized environmental conditions (RECs) during this investigation. Langan observed 55 gallon drums and smaller containers of flammable and inflammable lacquers, spray paints, hydraulic oil, and one unidentified 55 gallon drum, four floor drains and three additional drains grouted in place.

Langan's Phase I analyzed the November 1994 tank closure report, explaining the UST was closed in place and noted in parentheses sampling at "ground water level" was performed. While suggesting sampling at the groundwater table may be an issue, and noting that no map was attached to that report showing sampling locations, Langan relied on the 1994 results and DEC's closure of the spill to conclude this tank was not a REC. However, no sampling was

performed under the UST, and only limited sampling was performed around the UST, and not at bottom depths under where the tank may have leaked.

- **Phase II ESI Report, Lot 1, 145 West Street (May 2006 Phase II ESI);**

This Phase II report summarizes the Phase I investigation Langan prepared in March 2006. This Phase II Report was prepared and submitted to the City DEP on May 2, 2006 for purposes of satisfying “e” designation requirements. A geophysical investigation was performed as part of the Phase I/II investigation. See description of this report in Section F. below. The UST was identified on the southeastern portion of the Site in the parking lot near the corner of India and West Street. The tank is oriented north-south and is approximately 35 feet by 8.2 feet.

Direct-push Geoprobe borings were advanced by Aquifer Drilling and Testing, Inc. (ADT) of New Hyde Park, New York, and soil and groundwater samples were collected by Langan on March 22 and 24, 2006. Eight subsurface soil borings were advanced to maximum depths of 16 feet below ground surface (bgs). A total of fifteen soil samples (two from each boring with one exception in B-3 due to shallow refusal), five groundwater samples, and related QA/QC samples were collected.

Five borings (B-1, B-2, and B-5 through B-8) were advanced from the ground surface through the depth of groundwater [approximately 7 to 12 feet below ground surface (bgs)]. After three offset attempts, refusal was encountered in fill material in soil borings B-3 and B-4 at four feet bgs. One boring was advanced in the parking lot on the eastern portion of the facility (B-1); two borings were advanced inside the manufacturing facility (B-2 and B-3); three borings were advanced in the storage area on the western portion of the Site (B-4 through B-6); and two borings were advanced in the loading dock area on the western portion of the Site (B-7 and B-8). Soil samples were collected continuously from the ground surface to the top of the groundwater table (or refusal in boring B-3 and B-4) with a Geoprobe Macrocore sampler in four foot increments using new disposable sleeves.

Laboratory analytical results from the soil samples were compared to applicable NYSDEC Technical and Administrative Guidance Memorandum # 4046 (TAGM) Recommended Soil Cleanup Objectives (RSCOs) at this time. Groundwater sampling results were compared to NYSDEC Technical & Operations Guidance Series (TOGS) Ambient Water Quality Standards (AWQS). Results were as follows:

Soil Samples - ESI Phase II May 2006

1. Fill material consisting of brownish grey fine sand with a trace of silt and ash and fragments of brick and wood extended to the termination depth of borings B-2 through B-8. Black, coarse sand was observed in the fill material on the western portion of the site near the East River. Native soil, which consisted of grey coarse sand, was observed in boring B-1 at a depth of 10 feet bgs.
2. Minor staining and a faint petroleum odor were observed at approximately 0 to 4 feet bgs in soil samples collected from borings B-3 and B-6. An elevated PID reading of 14.1 ppm was detected in boring B-3 at a depth of two to four feet bgs. Staining, odors, or other indications of contamination were not observed in samples collected elsewhere on the Site.
3. VOCs were not detected at concentrations that exceeded TAGM RSCOs in samples collected from depths between 6 and 8 feet bgs in borings B-1, B-2, or B-7.
4. SVOCs were not detected at concentrations that exceeded TAGM RSCOs in samples collected from depths between 6 and 8 feet bgs in boring B-1, B-2, or B-7.
5. Total SVOC concentrations ranged between 0 ug/kg (B-1-8-10) and 635,200 ug/kg (B-6-0-2). Twelve SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, dibenzofuran, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene) were detected at concentrations that exceeded TAGM RSCOs in samples collected from borings B-1 through B-8.
6. Seven metals (arsenic, copper, magnesium, zinc, mercury, lead, and nickel) were detected at concentrations that exceeded TAGM RSCOs in samples collected from borings B-1 through B-8. Mercury was found at the following concentrations: 0.23 mg/Kg, B-1; 0.33 ug/Kg, B-2; 0.35 ug/Kg, B-4; 0.71 ug/Kg, also in B-4; 0.20 ug/Kg, B-5; 0.71 ug/Kg, B-6; 0.31 ug/Kg, also in B-6; 2.8 ug/Kg, B-7; and 0.25 ug/Kg, B-8.

Groundwater Samples - ESI Phase II May 2006

1. Groundwater was encountered at depths between 7 and 12 feet bgs in the borings.
2. VOCs, SVOCs, and PCBs were not detected at concentrations that exceeded TOGS AWQS in the five collected groundwater samples.
3. Nine metals (antimony, arsenic, iron, lead, magnesium, manganese, sodium, thallium and mercury) were detected in the groundwater samples at concentrations that exceeded TOGS AWQS. Mercury and thallium were only detected in the sample collected from B-7, and lead was detected in samples collected from B-5 through B-8.

Based on these results, Langan recommended preparation of a RAP and CHASP.

- Phase II Environmental Site Investigation (ESI) Workplan and HASP, Lot 1, 145 West St. (January 2006 Phase II ESI);
- Remedial Action Plan and HASP for Lot 1, 145 West Street (May 2006 RAWP);

The RAP and CHASP were submitted to the City on the same day as the Phase II Report.

Since the elevated Petroleum VOC, SVOC and metal concentrations detected in soil samples exceeded the Recommended Cleanup Objectives stated in the applicable TAGM 4046 guidance document (now the Part 375 Unrestricted Use Soil Cleanup Objectives), the RAP required: (1) removal of the petroleum source area located under the building slab; (2) removal of the 20,000 UST and any associated remediation; (3) remediation of the contamination fill material from 0-10 feet (13' where pile caps will be emplaced for foundation support); (4) mitigation of human contact with impacted soil; (5) importation of 2 feet of clean soil cover; and (6) soil vapor barrier in future on-Site buildings.

- **Phase I on full Site for Lots 1, 55, and 56 (December 1, 2008);**

In 2007, 145 West Street, LLC was able to purchase the two small remaining lots that are part of Block 2530 – Lots 55 and 56 – to complete the assemblage of this entire block for redevelopment purposes. As a result, all of the environmental reports had to be updated to include these lots, and thus create documents related to the entire Site. Therefore, in December 2008, the earlier Phase I report was updated and added Lots 55 and 56. This Phase I Environmental Site Assessment Report was prepared based on ASTM Practice E1527-05.

The 2008 Phase I Report determined that the prior uses at 157 West Street (former iron works as late as 1992) and 159 West Street (commercial heating oil facility) could have resulted in contamination and were recognized environmental conditions (RECs).

A 275-gallon heating oil AST, located in the basement of the building at 159 West Street, was a listed REC. A vent pipe and fill port were also observed by Langan along the northern exterior wall of the building along West Street. See Exhibit I, REC Map for AST. Although staining or other evidence of spills was not observed, rust on the surface of the tank and associated piping was noted, suggesting that the age of the tank probably predated enactment of the Petroleum

Bulk Storage regulations, which went into effect in the 1990's. Potential leakage or spillage associated with the connecting piping and fill port constituted a REC.

In addition, an approximately two-foot by two-foot pit, covered with a flush-mounted steel plate and encased in cinder blocks, was uncovered in the northeast portion of the 157 West Street building. The floor of the pit is covered with concrete and fill, and lies approximately six feet below the floor level. The 2008 Phase I Report concluded the pit is a preferential pathway for potential solvent or petroleum spills in the open garage area to infiltrate sub-surface soil and groundwater, and therefore was identified as a REC.

- **Phase II Addendum #1 to the May 2006 Phase II ESI, expanded to cover Lots 55 and 56 (Langan, February 25, 2009).**

Interior access was restricted to the on-Site building at 159 West Street due to ongoing commercial seafood market activities at the time of this supplemental Phase II Investigation. Therefore, borings were advanced outside this building, which was inspected during the Phase I.

The 2009 Phase II Investigation on Lots 55 and 56 revealed shallow soil underlying Lots 55 and 56 also consisted of contaminated fill, which was comprised of brown to gray fine- and medium-grained sand with some silt, gravel, brick, and concrete. Ash was observed in borings B-11 and B-12 adjacent to the 159 West Street building. The fill layer on these parcels, which are located more inland, extends to about 5 ft bgs, and is underlain by native fine-to medium-grained sand with varied amounts of silt, clay, and gravel. Odors, staining, or elevated vapor concentrations were not observed in the soil samples. The highest PID reading was 6.8 parts per million (ppm), which was detected in soil collected directly below the concrete slab in boring B-12. The depth to groundwater ranged from 6.80 ft bgs in monitoring well MW-12 to 9.22 ft in MW-10.

Analytical results from four soil borings were compared to applicable NYSDEC TAGM 4046 RSCOs. Groundwater sampling results were compared to TOGS Ambient Water Quality Standards (AWQS) or Class GA groundwater. The analytical results were as follows:

Soil Samples - Phase II Addendum February 2009

SVOCs were detected at concentrations that exceeded TAGM RSCOs in the sample collected from 0 ft to 2 ft bgs in boring B-10, SVOCs exceeding TAGM RSCOs included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthrene, chrysene, and dibenzo(a,h)anthracene. Total SVOC concentrations ranged from not detected in the native soil samples to 20,940 micrograms per kilograms ($\mu\text{g}/\text{kg}$) in the sample collected from 0 ft to 2 ft bgs in boring B-10.

Metals were detected in all of the borings at concentrations that exceeded their respective TAGM RSCO levels at the time. The following eight metals were identified in soils at concentrations exceeding TAGM RSCOs: beryllium, chromium, copper, iron, mercury, nickel, selenium, and zinc. Two samples collected from the fill material in borings B-9 and B-12 contained mercury at 0.277 mg/kg and 0.458 mg/kg, respectively, which exceeded the TAGM RSCO of 0.1 mg/kg.

Groundwater - Phase II Addendum February 2009

Methyl t-butyl ether (MtBE) was detected in the four groundwater samples at concentrations ranging from 1.3 micrograms per liter ($\mu\text{g}/\text{l}$) to 13.4 $\mu\text{g}/\text{l}$. The MtBE concentration detected in the sample collected from MW-9, 13.4 $\mu\text{g}/\text{l}$, exceeded the TOGS AWQS of 10 $\mu\text{g}/\text{l}$.

Aluminum, cobalt, copper, iron, magnesium, manganese, nickel, selenium, sodium, and thallium were detected in the groundwater samples at concentrations that exceeded their TOGS AWQS.

- **July 8, 2009 Langan Amended RAP and CHASP to include Lots 1, 55, and 56.**

The key difference between this RAP and the first RAP is a new section on Soil Stockpiling, which discusses how during soil removal efforts soil will be stock piled into two separate piles.

Suspect contaminated soils would be placed on plastic liner material, and covered with 8-mil plastic sheets up to a 2,000 cubic yard volume. In addition, more details about the type of soil vapor barrier to be installed in future buildings, was included in this RAP. In addition, this RAP discusses the removal of both the 20,000 gallon UST on Lot 1 and the 275 gallon AST in the basement of Lot 55.

4.0 REMEDIAL INVESTIGATION

In order to fully delineate the nature and extent of contamination and fill in data gaps from earlier studies, Galli Engineering prepared a Remedial Investigation (RI) Work Plan (RIWP). The RIWP was submitted in August, 2011, revised on November 15, 2011 and approved by the NYSDEC in January, 2012. The RI fieldwork for soil sampling and groundwater monitoring well installation was conducted from June 1 to June 22, 2012. This RI work was conducted in accordance with the RIWP, requirements for an RI investigation in the Division of Environmental Remediation (DER) Draft Technical Guidance for Site Investigation and Remediation (DER-10), Citizens Participation Plan (CPP) dated September 2011; the Health and Safety Plan (HASP) dated August 25, 2011; and the Quality Assurance / Project Plan (QAPP), dated November 15, 2011 (revised).

4.1 SAMPLING GRID LOCATIONS

Sampling locations were designated by a site-wide grid system. The grid layout in the approved RIWP included column lines designated "A" through "L". However, the grid plan used by staff during the actual field activities was an older version of the grid, which did not include the "A" column, and only to column "K". In the field, this issue was discovered and the "A" column was added and designated "S" (as it was closest to the Shoreline). Unfortunately, the sample designations were recorded on Chain of Custodies per the old layout (that is with columns "S" and "A" through "K"). Rather than attempt to change all the lab reports, all references in the text of this report are to this older grid, a copy of which is found in Appendix A.

4.2 REMEDIAL INVESTIGATION SCOPE OF WORK

The following RI scope of work is an outline of the process and steps that Galli Engineering performed in the performing the RI of the Site.

The Scope of Work outlined in the RIWP was as follows:

1. Mark out all utilities;
2. Mark out the sampling grid according to the RI Boring and Monitoring Well Locations Plan (see note above);
3. Installed 47 successful soil borings using a Geoprobe 7600,
4. Installed four on-site monitoring wells;

5. Developed the wells in accordance with NYSDEC protocols;
6. Survey monitoring wells;
7. Collected 47 soil samples from the 47 borings;
8. Collected 16 endpoint soil samples from 16 of the 47 borings in the clay layer under the historic fill in an attempt to determine the nature and extent of the contaminated fill layer in order to determine if a Track 1 cleanup can be met;
9. Collected groundwater samples from the four newly installed monitoring wells;
10. Collect all appropriate QA/QC samples for soil and groundwater analyses
11. Dig two test pits after collecting soil samples from boring locations C3 and E3;
12. Perform laboratory analysis of soil samples for volatile organic compounds according to United States Environmental Protection Agency (US EPA) Method 8260; semi-volatile organic compounds (SVOCs) according to US EPA Method 8270 Acid and Base/Neutral extractable; Pesticides and Herbicides according to US EPA Method 8081, Priority pollutant metals (except mercury) according to US EPA Method 6010; and mercury according to US EPA Method 7470/7471 from each boring. PCBs were collected from five borings according to US EPA Method 8082;
13. Perform laboratory analysis of groundwater samples for volatile organic compounds according to United States Environmental Protection Agency (US EPA) Method 8260; semi-volatile organic compounds (SVOCs) according to US EPA Method 8270 Acid and Base/Neutral extractable; priority pollutant metals (except mercury) according to US EPA Method 6010; and mercury according to US EPA Method 7470/7471.
14. Evaluate laboratory data;
15. Perform an interim remedial measure in relation to the removal of a large underground storage tank (UST) and sample under UST
16. Prepared Remedial Investigation Report.

Interim Remedial Measure (IRM)

While the RIWP called for the removal of the 20,000-gallon UST on the southeast corner of the Site as an Interim Remedial Measure (IRM), since contamination was detected in an around this

UST during the RI, a deviation from the RIWP was determined to be appropriate since remediation of the entire Site including the area under the UST will be performed as early as possible after excavation begins on the Site, in the manner prescribed in an approved Remedial Action Work Plan.

At the time of full Site excavation, the UST can be more carefully removed and the contaminated soil thereunder properly excavated. Any piping that may still be attached will be uncovered by hand if necessary and removed. The UST will then be properly disposed off-Site.

Excavation of the UST and associated piping at a later date is reasonable. The location of the UST is capped by a concrete sidewalk, so it is inaccessible to the general public. The nearest down gradient monitoring well (MW-3) showed no volatile contamination in soil samples and no organic contamination in groundwater samples. Additionally, if there was impacted soil under the 145 West Street building, no excavation prior to building demolition could be accomplished. With limited risk to the public of exposure to the fuel oil contamination and a more efficient cleanup possible, it was judged that waiting until the demolition of the building to remove the UST and piping and any fuel oil impacted soils was reasonable.

Post excavation sampling in the UST excavation pit will consist of collecting samples from four walls and two from the floor of the excavation and analyzing for the Track 1 standards listed in Part 375-6.8(a).

The RI had several goals:

1) to define the nature and extent of contamination in soil and groundwater; 2) confirm if a Track 1 remediation level can be achieved by conducting end point samples at the bottom of the fill layer and in the clean virgin soil layer; 3) identify any source area(s) of the contamination; 4) assess the impact of the contamination on public health and/or the environment; and 5) provide information to support the development of a Remedial Action Work Plan (RAWP) to address the contamination.

4.3 MARKOUTS AND UTILITY CLEARANCE

Utility markouts were called in by the drilling subcontractor, to the dig safe NY 811 number. The ticket number is # 121460037. Utilities were identified and are shown on the Boring and Monitoring Well Location Plan in Appendix A.

4.4 SAMPLING GRID LAYOUT

As noted above in Section 4.1, the sampling location grid attached hereto in Appendix A was utilized in the field. The grid was a Site-wide grid that extended inside and outside the building footprint. The grid placed sampling locations approximately 55-feet on center. Sampling locations for soil borings were designated with the letter-number grid intersections (letters S and A through K and numbers 1-5 for soil borings, and MW-101 through MW-104 for monitoring wells).

The grid in Appendix A shows the test boring locations (including two test pits and four monitoring wells). A significant number of borings (47) were installed. These boring locations, and the resulting samples were sufficiently numerous so as to properly characterize the nature and extent of the entire Site, including the vicinity of previous boring locations B-5 (where mercury was noted in earlier investigations) and B-3 and B-6 (where petroleum odors were noted).

4.5 SOIL BORINGS

As required by the RIWP, Trinity Environmental initially advanced forty seven (47) soil borings at the subject property on June 1 to June 22, 2012, using a track mounted Geoprobe 7600 equipped with a direct push hydraulic driven probe for sample collection. Soil samples were collected using a single-use environmental grade disposable plastic sleeve inserted into the *Geoprobe* Macrocore soil sample probe. Soil samples were transferred from Macrocore using a single-use environmental grade disposable plastic scoop and placed into clean glass jars fitted with Teflon lined caps. These soil borings were advanced until refusal at bedrock and were designated based on a number and letter depicting the grid location. During drilling activities, a second building foundation slab was encountered. This required bringing in Eastern Concrete Coring and Laurel Environmental to the site to use concrete coring machines to advance the borings past this slab. All the soil boring locations are shown on the Boring and Monitoring Well Location Plan provided in Appendix A.

During drilling activities inside the building footprint, two additional building slabs, beneath the current building's concrete floor slab, were encountered in some of the borings. The slabs each ranged in thickness from 1 foot to 3 feet. The additional slabs were most prominent on the western portion of the building. At least one sub-surface building slab was encountered in most interior borings, necessitating the use of a concrete coring machine prior to sample collection with a Geoprobe.

The nature of the subsurface materials in the borings ranged from gravels to sands to clays. Urban fill in the form of concrete, brick and wood were observed in some of the borings.

4.6 MONITORING WELL INSTALLATION

As required by the RIWP, a total of four (4) groundwater monitoring wells were installed as part of this RI. These are designated MW-101, MW-102, MW-103 and MW-104 on the Boring and Monitoring Well Location Plan Layout in Appendix A. Monitoring wells were advanced by Trinity Environmental using a Geoprobe 7600 equipped with hollow stem augers.

The monitoring wells were installed with 2" diameter Schedule 40 PVC to approximately twenty (20) feet below land surface, with the screen set to intersect the water table in saturated soils, and finished at the surface with flush mount 6" well box. The screen slot size was 20 mil. Well logs were constructed for each monitoring well, and are presented in Appendix C. After installation, each well was developed in accordance with NYSDEC protocols.

Monitoring Well Table				
Gauged September 21 & 24, 2012				
Well Number	Total Depth of Well	Casing Elevation	Depth to Water	Water Elevation
MW-101	20'	6.18	6.75	-0.57
MW-102	20'	8.41	7.59	0.82
MW-103	20'	4.64	4.42	0.22
MW-104	20'	6.02	5.84	0.18

Drill cuttings from installation of the monitoring wells were drummed and stored inside the building. This material will be disposed of along with all other excavated material when excavation commences.

4.7 MONITORING WELL DEVELOPMENT

The monitoring wells were developed in August of 2012. Each well was developed in accordance with NYSDEC protocols until the turbidity was less than 50 NTU. Development was performed by pumping utilizing a submersible 12 volt pump and surging utilizing 5/8" tubing and a surge block. The submersible pump and surge block were decontaminated between wells utilizing Alconox and potable water. Tubing to the submersible pump and the surge block were disposed of after use and new tubing was utilized for each well. All development waters were retained in DOT 55 gallon drums awaiting groundwater laboratory results to determine disposal.

4.8 SURVEY OF MONITORING WELLS

The monitoring wells were surveyed for well location and casing elevation by Montrose Surveying Company, LLC on October 26, 2012. A copy of the survey is included in Appendix H.

4.9 SOIL SAMPLE COLLECTION

4.9.1 Grid Samples

A total of 47 soil samples were collected from the 47 soil borings for field screening with a photoionization detector (PID) during June 1 to June 22, 2012. Each of the samples were placed into a clean Ziploc bag. The soil samples collected for field screening were placed in a sample collection staging area to allow for samples to equilibrate with ambient temperature. The headspace of each of the soil samples was then screened for the presence of volatile

organic vapors using a broadband photoionization detector (PID). The PID was zero calibrated and checked with a known concentration of isobutylene prior to screening soil samples at the subject property. Field screening results are listed in the boring logs.

The samples were placed into clean 2-ounce, 4-ounce and 8-ounce glass jars fitted with Teflon lined caps using a single-use environmental grade disposable plastic scoop.

Each jar was then labeled with designated sample identification, date and time of collection, and the requested laboratory analyses: volatile organic compounds according to United States Environmental Protection Agency (US EPA) Method 8260; semi-volatile organic compounds (SVOCs) according to US EPA Method 8270 Acid and Base/Neutral extractable; priority pollutant metals (except mercury) according to US EPA Method 6010; and mercury according to US EPA Method 7470/7471. Each soil sample jar was packed in a plastic bag and placed in a secure cooler with separately bagged ice. The samples were then logged on a chain of custody document by sampling personnel, and remained in the custody of Galli Engineering until transport of the samples to the analytical laboratory via laboratory courier.

Spill Observed

During installation of soil boring WS-J5 near the southeast corner of the site, a thin layer (<1") of free product was observed at a depth of 10 feet. The substance appeared to be fuel oil. This discovery was called in to the NYSDEC spills hotline and Spill Number 12-02875 was assigned.

No other evidence of free product was observed in any other soil boring. Furthermore, no evidence of free product was discovered in groundwater when groundwater was subsequently sampled in well MW-102, which lies essentially down gradient from the observed free product. As a result of this discovery, Galli determined that the UST IRM tank excavation work should be delayed until the approved RAWP is implemented so as to perform a prescribed UST excavation in a manner that does not cause an impact to groundwater quality.

Although the data suggest that this is a very localized phenomena, this spill will be addressed when the tank is removed and during any excavation of the surrounding area. Additional sampling will be conducted. Documentation will be prepared and submitted to NYSDEC to close the spill and as part of the Final Engineering Report (FER) for the Certificate of Completion to close out the remedial action on the Site.

4.9.2 Endpoint Samples

Endpoint samples (those grab samples collected from the bottom of selected borings to be representative of native or near-native conditions) were collected from 16 locations. Each of the samples were placed into a clean Ziploc bag. The soil samples collected for field screening were placed in a sample collection staging area to allow for samples to equilibrate with ambient temperature. The headspace of each of the soil samples was then screened for the presence of volatile organic vapors using a broadband photoionization detector (PID). The PID was zero calibrated and checked with a known concentration of isobutylene prior to screening soil samples at the subject property. Field screening results are listed in the boring logs.

The samples were placed into clean 2-ounce, 4-ounce and 8-ounce glass jars fitted with Teflon lined caps using a single-use environmental grade disposable plastic scoop.

Each jar was then labeled with designated sample identification, date and time of collection, and the requested laboratory analyses: volatile organic compounds according to United States Environmental Protection Agency (US EPA) Method 8260; semi-volatile organic compounds (SVOCs) according to US EPA Method 8270 Acid and Base/Neutral extractable; PCBs according to US EPA Method 8082; priority pollutant metals (except mercury) according to US EPA Method 6010; and mercury according to US EPA Method 7470/7471. Each soil sample jar was packed in a plastic bag and placed in a secure cooler with separately bagged ice. The samples were then logged on a chain of custody document by sampling personnel, and remained in the custody of Galli Engineering until transport of the samples to the analytical laboratory via laboratory courier.

4.10 GROUNDWATER SAMPLE COLLECTION

Groundwater sampling was accomplished on September 21 and September 24, 2012. Sampling utilized a QED SamplePro Portable Micropurge Pump, a QED Micropurge MP10 Standard Pressure Controller and QED Compressor. Water parameters were measured with a Horiba U-50 with Flow Cell and water levels were measured with a HERON interface probe. Sampling was conducted utilizing low flow (or low stress) methods similar to "EPA Region 1 Low Stress (low flow) Procedure for the Collection of Groundwater Samples from Monitoring Wells, Revision 3, January 2010".

The SamplePro pump is a submersible bladder pump, which uses a surface supply of compressed air to power the compression of a polyethylene bladder to pump water to the surface via 3/8" polyethylene tubing. The pump, with air supply and water return hoses, is lowered to the designated zone. The target depth of pump is normally midway between the top of the water and total depth of the well, when the slotted pipe extends higher than the top of water as was the case with all four of the subject wells.

Purging the monitoring wells consisted of lowering the pump to the desired depth, after first measuring depth to water. All purge water was retained for future disposal. The discharge hose is attached to the U-50 Flow Cell and Sensor to continuously monitor water quality parameters. Temperature, pH, Oxidation/Reduction Potential, Conductivity, Turbidity, Dissolved Oxygen, Total Dissolved Solids and Depth to Water were the parameters measured and recorded during purging operations. Water discharge rates are monitored with respect to depth of water. Pumping rates are adjusted that after initial drawdown, the depth to water stabilizes. This indicates that the pumping (or discharge) rate is equivalent to the rate of inflow thereby minimizing stress to the aquifer/monitoring well system. Sampling was conducted when groundwater parameters stabilized, indicating that a large pool of water was being measured. The assumption in low flow sampling is that if, while pumping, groundwater parameters stabilize, then you are pumping from a large body of water that has similar parameters. It is assumed that this is aquifer or formation water versus well bore water in that the well bore water volume is finite and the formation or aquifer water is very large in comparison. Sampling by filling laboratory supplied sample bottles is accomplished at that time. Water parameter measurements for current round of purging/sampling are located in the Monitoring Well Sampling Logs presented in Appendix D.

No samples were filtered, either in the field or by the lab. Low flow sampling techniques were utilized which allowed the collection of samples where the measured turbidity was less than 50 NTU. In some cases samples measured less than 5 NTU.

4.11 QA/QC SAMPLE COLLECTION

QA/QC samples were collected with soil and groundwater sampling in accordance with the QAPP (see RIWP Appendix B). Trip Blanks, supplied by Phoenix Laboratories, were placed in the sample coolers when soil or groundwater samples were sent to the laboratory for analysis. Trip Blanks were analyzed for Volatile Organic Compounds by the same method (EPA Method 8260) that was used to analyze the samples.

Additional QA/QC samples for soil samples were collected. These included two (2) Field Blanks, three (3) Matrix Spike and three (3) Matrix Spike Duplicate samples.

The Data Usability Study Report (DUSR) validating the data collected is attached hereto in Appendix K.

4.12 TEST PITS

Two test pits were dug at the locations indicated on the Boring and Monitoring Well Location Plan (Appendix A) for the purpose of obtaining a general sense of the physical nature of sub-surface fill and debris in these areas. The test pits were dug with a backhoe by making a narrow trench as deep as feasible given the nature of the equipment and consistent with changes in sub-surface strata and water table encroachment. Test pits were dug to a depth of approximately 11 feet after initial completion of the soil boring and then filled back in using the same soils excavated from the test pit. Groundwater was encountered at approximately eleven (11) feet bgs in both test pits, where excavation was forced to cease due to hole collapse.

Two additional concrete slabs were observed in test pit C-3 at three (3) feet and at four (4) feet bgs. Only one concrete slab was observed in E-3 at four (4) feet bgs but an asphalt paving layer was observed at three (3) feet bgs. Both test pits had obvious construction and demolition debris above and between the various slabs from top of boring to approximately four (4) feet bgs. Neither test pit encountered wooden construction timbers. Both test pits encountered fine brown sand/fine sandy-silt from base of concrete slab at four (4) feet bgs to total depth of test pits at eleven (11) feet bgs. This brown sand may be native material, but no evidence that this material is undisturbed was observed in sidewalls of the test pits such as cross bedding and other depositional structures, in place peat layers, fauna or other evidence of the assumed original depositional environment of a tidal estuary. No odors were noticed during excavating the test pits.

4.13 LABORATORY ANALYSIS OF SOIL SAMPLES

Grid Samples

The 47 grid soil samples collected from the subject property on June 1 to June 22, 2012 were maintained in a secure cooler until delivery by laboratory courier to Phoenix Laboratories, Inc., a New York State Certified Commercial Laboratory for analysis. In accordance with the RIWP, these soil samples were analyzed for the presence of volatile organic compounds according to United States Environmental Protection Agency (US EPA) Method 8260; semi-volatile organic compounds (SVOCs) according to US EPA Method 8270 Acid and Base/Neutral extractable; priority pollutant metals according to US EPA Method 6010; and mercury according to US EPA Method 7470/7471. Trip blanks and field blanks were collected for quality control purposes.

Endpoint Samples

The sixteen (16) endpoint samples were collected from 16 of the 47 grid boring locations. These were discrete samples collected at a depth based on anticipated excavation depth for the proposed new buildings. These deeper samples were collected at the same time as the original grid samples. Alternatively, the boring was re-entered utilizing a Geoprobe closed tube discrete sampler with the sampler opened at the target depth.

The 16 endpoint soil samples collected from the subject property on June 1 to June 22, 2012 were maintained in a secure cooler until delivery by laboratory courier to Phoenix Laboratories, Inc., a New York State Certified Commercial Laboratory for analysis. In accordance with the RIWP, these soil samples were analyzed for the presence of volatile organic compounds according to United States Environmental Protection Agency (US EPA) Method 8260; semi-volatile organic compounds (SVOCs) according to US EPA Method 8270 Acid and Base/Neutral extractable; PCBs according to US EPA Method 8082; priority pollutant metals according to US EPA Method 6010; and mercury according to US EPA Method 7470/7471. Trip blanks and field blanks were collected for quality control purposes.

The sampling program was designed to identify source areas, if any, associated with the contaminants of concern (COC) identified in prior investigations of and as described in the RIWP. COCs include: Volatile Organic Compounds (VOCs - solvents and total petroleum hydrocarbons); Semi-Volatile Organic compounds (SVOC's - petroleum-related chemical compounds, typically poly aromatic hydrocarbons or PAHs produced as a result of combustion),

and priority pollutant metals (heavy metals). Sample collection and laboratory analysis were conducted for the contaminants of concern during this BCP Remedial Investigation.

4.14 LABORATORY ANALYSIS OF GROUNDWATER SAMPLES

The groundwater samples collected from the subject property on September 21 and September 24, 2012, were maintained in a secure cooler until delivery by laboratory courier to Phoenix Laboratories, Inc., a New York State Certified Commercial Laboratory for analysis. In accordance with the RIWP, the groundwater samples were analyzed for the presence of VOCs according to United States Environmental Protection Agency (US EPA) Method 8260B + TICs; SVOCs according to US EPA Method 8270C Acid and Base/Neutral extractable + TICs; and priority pollutant metals (except mercury) according to US EPA Method 7000 series; and mercury according to US EPA Method SW7470A, to determine if any contamination has emanated off-site from the subject property. One trip blank was utilized for each day of groundwater sampling.

4.15 QUALITATIVE HUMAN HEALTH ASSESSMENT

The overall purpose of the Qualitative Human Health Exposure Assessment is to evaluate and document how people might be exposed to site-related contaminants, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the site. To evaluate if an exposure pathway exists, the exposure assessment must assess the quality, representativeness and adequacy of the available data. Available data may include field data and laboratory data.

In addition, the qualitative exposure assessment considers the nature of populations currently exposed or which have the potential to be exposed to site related contaminants both on and off site, and describes the reasonably anticipated future land use of the site and affected off-site areas.

The Qualitative Human Health Assessment considered all known contamination at the Site and evaluated the potential for people to come in contact with this contamination.

The objectives of the assessment are:

- To identify chemicals of concern (COCs) that are related to the site
- To identify potential pathways of exposure to the exposed population
- To characterize the receptor populations who may be exposed to contaminants

- To indicate the need for mitigative measures to reduce potential exposures

In order to determine if a Fish and Wildlife Resources Impact Analysis would be required, the table in Appendix 3C (Fish and Wildlife Resources Impact Analysis Decision Key) was utilized. Based on this table, it was determined that this analysis would not be needed for this site.

The assessment used data collected in previous environmental investigations of the site, as described in Section 2.4 of the report.

The assessment was prepared in accordance with DER-10, Technical Guidance for Site Investigation and Remediation, New York State Department of Environmental Conservation, Division of Environmental Remediation, May 2010, Appendix 3B (New York State Department of Health, Qualitative Human Health Exposure Assessment). The analytical data presented for the project site confirm that the subject property has been impacted by contaminants that are consistent with the past use of the property. The nature of contaminants detected is not unusual for previously developed urban sites. The analytical data collected as part of the Remedial Investigation conducted by Galli Engineering, P.C. indicate that the impacted soils do not meet the criteria for hazardous waste.

We conclude that the planned excavation and removal of on-site materials will enable the site to meet the Track 1 thresholds (Unrestricted Use: Site can be used for any purpose). At the conclusion of remediation activities on the site, there will be no anticipated exposure risk to populations both on- and off- site. The full Qualitative Human Health Assessment is located in Appendix L.

5.0 LABORATORY ANALYTICAL RESULTS

The laboratory used for all analytical work for this investigation was Phoenix Environmental Laboratories, Inc. of Manchester CT. Phoenix is ELAP certified by the New York State Dept. of Health for all analyses tested during this investigation. Copies of those certifications are found in Appendix G.

Upon completion of all analyses, Enviro Analytics of Utica, NY was retained to perform data validation. Data validation performed by Enviro Analytics for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) SW-846 inorganics, VOCs, SVOCs, polychlorinated biphenyls (PCBs), heavy metals, herbicides, and pesticides analyses followed the guidelines presented in the following documents:

Data validation is a technical review process that involves the evaluation of analytical data against Quality Control criteria to determine the usefulness of the data. These procedures are defined in the analytical methods and must be followed if data are to be regarded as truly valid. This is especially important for high-spec work, as required under the BCP.

Data validation is conducted by an independent third party who collects the entire Analytical Services Protocol package from the lab and reviews all documentation concerning the sample handling and analysis.

The analytical data developed for this project were evaluated utilizing the quality control criteria presented in the following documents:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, USEPA-540-R-08-01, June 2008.
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, USEPA-540-R-10-011, January 2010.
- CLP organics Data Review and Preliminary Review, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3, SOP No. HW-2, Revision #13, USEPA Region II, September 2006.
- Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, August 2008.

- Validating Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP No. HW-22 Revision #4, USEPA Hazardous Waste Support Branch, August 2008.
- Validating PCB Compounds By Gas Chromatography SW-846 Method 8082A, SOP No. HW-45 Revision #1, USEPA Hazardous Waste Support Branch, October 2006.
- Validating Pesticide Compounds, Organochlorine Pesticides By Gas Chromatography SW-846 Method 8081B, SOP No. HW-44 Revision #1, USEPA Hazardous Waste Support Branch, October 2006.
- Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP), NYSDEC June 2005.

Data Usability Summary Report

The Data Usability Summary Report (DUSR) addresses data quality for soil and groundwater samples collected by Galli Engineering personnel during this investigation. The samples were analyzed for volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); pesticides/polychlorinated biphenyls (Pest/PCBs); herbicides; and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. The DUSR is included as Appendix K. The DUSR may be summarized as follows.

The inorganics analyses data have been determined to be usable for qualitative and quantitative purposes with the exception of Magnesium for three samples, Potassium for eight samples, and Sodium for twelve samples that were rejected due to matrix spike recovery deviations. Sample results for several analytes were also qualified for deviations from matrix spike and laboratory duplicate analysis criteria.

The volatile organics analyses data were determined to be usable for qualitative and quantitative purposes with the exception of 1,1,2,2-Tetrachloroethane results for two samples that were rejected due to matrix spike recovery deviations. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, secondary dilution, and matrix spike criteria.

The semi-volatile organics analyses data were determined to be usable for qualitative and

quantitative purposes with the exception of 7.4 percent of the data that was rejected due to deviations from calibration, laboratory control sample, and matrix spike criteria. Sample results for several compounds were qualified based on deviations from initial calibration, continuing calibration, laboratory control sample, internal standard recovery, field duplicate analysis, and matrix spike criteria.

The PCBs analyses data were determined to be usable for qualitative and quantitative purposes as reported.

The herbicides/pesticides analyses data have been determined to be usable for qualitative and quantitative purposes as reported by the laboratory.

The Data Usability Summary Report (DUSR) attached hereto in Appendix K provides a discussion of QA/QC deviations from established criteria presented in the guidance documents specified above, a summary of data qualified for QA/QC deviations, a discussion regarding the usability of the data, and a discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the qualified data.

The laboratory results for the soil and groundwater samples collected from the Site are discussed below.

5.1 SOIL SAMPLE ANALYTICAL RESULTS

The soil laboratory analytical results were evaluated in accordance with the New York State Department of Environmental Conservation (NYSDEC) 6 NYCRR Subpart 375-6.8(a) Track 1 Remedial Program “Unrestricted Use Soil Cleanup Objectives” or Track 1 SCOs and as appropriate, the 6 NYCRR Subpart 375-6.8(b) Track 2 Remedial Program “Restricted Residential Use Soil Cleanup Objectives” or Track 2 Residential SCOs.

5.1.1 Grid Soil Samples

Metals

Priority pollutant metals were detected in all grid soil samples analyzed. Results of the laboratory analysis for metals in the grid soil samples can be found in Table 6. A total of thirty seven (37) samples were above the Track 1 SCOs, with nineteen (19) of the above 37 samples also above the Track 2 Restricted Residential SCOs.

Arsenic was above the Track 2 Restricted Residential SCO of 16 mg/kg in WS-A1 (17.9 mg/kg), WS-D1 (44.2 mg/kg), WS-G4 (16.3 mg/kg), WS-G5 (19.4 mg/kg), WS-S4 (49.3 mg/kg) and WS-C3 Test Pit (44.2 mg/kg). However, Arsenic was not found above the Track 1 SCO in any other sample. The Arsenic values appear to be random with no apparent “hotspots”.

Barium was found above Track 2 Restricted Residential SCO of 400 mg/kg in WS-A2 (463 mg/kg), WS-D5 (893 mg/kg) and WS-F4 (440 mg/kg). However, Barium was not found above the Track 1 SCO in any other samples.

Copper was found in WS-D5 at 274 mg/kg and WS-G5 at 25,300 mg/kg, which are respectively slightly above the Track 2 Restricted Residential SCO of 270 mg/kg in WS-D5 and significantly above the Track 2 Restricted Residential SCO in WS-G5. The high amount of Copper in WS-G5 is an isolated result and is surrounded by Copper results below 250 mg/kg, which is below Track 2, but above Track 1 SCO. Special attention to this area will be needed during proposed foundation excavation to determine if the soil in this area must be treated as hazardous waste.

The Track 1 SCO of 50 for copper was exceeded in twenty six (26) of 47 sample results: WS-A1 (172 mg/kg), WS-A2 (70.7 mg/kg), WS-B1 (64.8 mg/kg), WS-B2 (52.2 mg/kg), WS-B3 (55.6 mg/kg), WS-C1 (65.8 mg/kg), WS-C2 (93.7 mg/kg), WS-C3 Test Pit (203 mg/kg), WS-C3A (107 mg/kg), WS-C5 (88.6 mg/kg), WS-C5 (165 mg/kg), WS-D1 (76.6 mg/kg), WS-D3 (199 mg/kg), WS-D4 (89.2 mg/kg), WS-E1 (55.9 mg/kg), WS-E2 (66.3 mg/kg), WS-F2 (151 mg/kg), WS-F4 (175 mg/kg), WS-G1 (85.7 mg/kg), WS-G2 (102 mg/kg), WS-G4 (90.5 mg/kg), WS-H2 (101 mg/kg), WS-H3 (156 mg/kg), WS-H3 (140 mg/kg), WS-H5 (142 mg/kg), and WS-I3 (76 mg/kg).

Lead was found in excess of the Track 2 Restricted Residential SCO of 400 mg/kg in sixteen (16) samples: WS-A1 (761 mg/kg), WS-C2 (545 mg/kg), WS-C3 Test Pit (450 mg/kg), WS-C5 (404 mg/kg), WS-C5 (769 mg/kg), WS-D1 (400 mg/kg), WS-D5 (895 mg/kg), WS-F2 (673

mg/kg), WS-F4 (1,020 mg/kg), WS-G1 (551 mg/kg), WS-G2 (2,630 mg/kg), WS-G4 (436 mg/kg), WS-G5 (3,190 mg/kg), WS-H3 (421 mg/kg), WS-S2 (700 mg/kg) and WS-S4 (1,740 mg/kg).

Additionally, Lead was found above the Track 1 SCO of 63 mg/kg in 20 additional samples: WS-A2 (314 mg/kg), WS-B1 (396 mg/kg), WS-B2 (216 mg/kg), WS-B3 (194 mg/kg), WS-C1 (323 mg/kg), WS-D4 (353 mg/kg), WS-E1 (118 mg/kg), WS-E2 (155 mg/kg), WS-E3 Test Pit (72.1 mg/kg), WS-F1 (396 mg/kg), WS-F5 (349 mg/kg), WS-H1 (94.2 mg/kg), WS-H2 (162 mg/kg), WS-H4 (245 mg/kg), WS-H5 (310 mg/kg), WS-I1 (116 mg/kg), WS-I2 (158 mg/kg), WS-I3 (77.8), WS-I5 (94.1), and WS-J3 (96.5 mg/kg). Therefore, a total of 36 exceedances out of 47 samples taken for Lead are present at the Site above the Track 1 SCOs.

Mercury was found above the Track 2 Restricted Residential SCO of 0.81 mg/kg in ten (10) soil samples: WS-A1 (1.91 mg/kg), WS-C5 (5.63 mg/kg), WS-D1 (1.86 mg/kg), WS-E2 (1.56 mg/kg), WS-F2 (3.33 mg/kg), WS-G2 (3.31 mg/kg), WS-H4 (2.56 mg/kg), WS-S1 (6.78 mg/kg), WS-S2 (3.42 mg/kg) and WS-S4 (1.78 mg/kg). In addition, Mercury was found above Track 1 SCO in sixteen (16) soil samples: WS-A2 (0.24 mg/kg), WS-B1 (0.55 mg/kg), WS-B2 (0.21 mg/kg), WS-B3 (0.27 mg/kg), WS-C1 (0.74 mg/kg), WS-C3 (0.3 mg/kg), WS-C3 Test Pit (0.47 mg/kg), WS-D5 (0.22 mg/kg), WS-E1 (0.73 mg/kg), WS-F1 (0.71 mg/kg), WS-F4 (0.52 mg/kg), WS-G1 (0.31 mg/kg), WS-G5 (0.39 mg/kg), WS-H2 (0.22 mg/kg), WS-H3 (0.4 mg/kg), WS-I2 (0.29 mg/kg). Therefore, a total of 26 exceedances out of 47 samples taken for Mercury are present at the Site above the Track 1 SCOs.

While Zinc was not found above the Track 2 Restricted Residential SCOs, Zinc was found above the Track 1 SCOs in twenty six (26) out of 47 samples. The metals results as described in Table 6.

Volatiles

VOCs were identified in 25 of the 47 grid soil samples above the Track 1 SCOs but all of these samples were below the Track 2 Restricted Residential SCOs. The VOC exceedances are summarized in Table 4.

Semi-Volatiles

SVOCs were detected above the Track 1 in 15 of the 47 grid soil samples. Of the 15 samples detected above the Track 1 SCOs, 14 were also detected above the Track 2 Restricted Residential SCOs. These samples were collected from WS-B2, WS-C1, WS-C2, WS-C3, WS-C5, WS-D1, WS-D5, WS-F1, WS-F4, WS-G1, WS-G2, WS-G5, WS-H3, WS-H5, and WS-S1. The SVOC exceedances are summarized in Table 5.

5.1.2 Endpoint Soil Samples

Sixteen (16) endpoint samples, described as those grab samples collected from the bottom of selected borings, were visually observed to appear to be representative of native or near-native conditions.

Metals

Endpoint samples collected from locations: WS-C2 30', WS-K5 20', WS-D2 25', WS-E2 30', WS-E3 30', WS-F2 30', WS-C3A 30', WS-H2 25', WS-J4 25', WS-I3 25', WS-F1 30', WS-K3-20', WS-K4 30', and WS-I1 30' showed no metals concentrations in excess of the Track 1 SCOs.

Samples A1 20' and B2 25' revealed some metals in soil that appeared to be native soil at concentrations just above the Track 1 SCOs as shown in the table below. All figures are in mg/Kg.

Metal	Track 1 Unrestricted 375-6.8(a)	Track 2 Restricted Residential 375-6.8(b)	Sample Result A1 20'	Sample Result B2 25'
Arsenic	13	16	12.4	18.2
Copper	50	270	37.8	76.4
Lead	63	400	132	270
Mercury	0.18	0.81	0.29	1.25
Nickel	30	140	31.1	29.2
Zinc	109	2200	113	185

These two samples were collected in the northwestern portion of the property and show exceedances that are over both Track 1 and Track 2 SCOs. As a result, a Track 1 cleanup may be attainable if excavation occurs to a depth greater than the limit of end point boring. However, excavation for new construction in this area is only required to depths of approximately 2-3 feet below ground surface.

Volatiles

No Volatile Organic Compounds were reported in any endpoint sample above the Track 1 SCOs.

Semi-Volatiles

No Semi-Volatile Organic Compounds were reported in any endpoint sample above the Track 1 SCOs.

PCBs

No PCBs were reported in any endpoint sample above the Track 1 SCOs Unrestricted limit found at 6 NYCRR 375-6.8(a).

Herbicides/Pesticides

No herbicides/pesticides were reported in any endpoint soil sample above the Track 1 SCOs.

5.2 GROUNDWATER ANALYTICAL RESULTS

Monitoring wells MW-101, MW-102, MW-103 and MW-104 are located around the subject building as shown in Appendix A.

Laboratory results of the groundwater samples were analyzed and assessed in accordance with 6 NYCRR Chapter X, Part 703 "Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations" and NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1): "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" ("groundwater standards").

Metals

Some metals were detected at varying concentrations above and below their Ambient Limits in each of the monitoring wells.

Aluminum was detected in groundwater samples MW-101 and MW-102 at concentrations of 2.02 mg/L and 0.417 mg/L. These results are above the groundwater standard for Aluminum of 0.1 mg/L.

Iron was found in groundwater samples from MW-101, MW-102 and MW-103 at concentrations of 7.49 mg/L, 10.4 mg/L and 1.31 mg/L. These results are above the groundwater standard for Iron of 0.3 mg/L.

Lead was detected in groundwater samples from MW103 at concentrations of 0.278 mg/L, above the groundwater standard for lead of 0.025 mg/L.

Magnesium was detected in MW-103 and MW-104 at concentrations of 834 mg/L and 291 mg/L, respectively, which exceed the groundwater standard for Magnesium of 35 mg/L.

Manganese was detected in all four monitoring wells and exceeded the groundwater standard of 0.3 mg/L in MW-101 at 5.12 mg/L and MW-104 at 0.457 mg/L.

Sodium was detected in all four monitoring wells and exceeded the groundwater standard of 20 mg/L in MW-101 through MW-104 respectively at 158 mg/L, 130 mg/L, 7,740 mg/L and 2,210 mg/L. MW 103 and MW-104 are the monitoring wells closest to the East River.

Volatiles

Volatile organic compounds (VOCs) were not detected in the groundwater samples collected from the four monitoring wells at the Reporting Limits (reported as “ND”), with the single exception of methyl t-butyl ether, found at 1.6 µg/L in MW-102. The NYS Ambient Water Quality Guidance Value is 10 µg/L.

Accordingly, Volatiles in Groundwater are not a concern.

Semi-Volatiles

No SVOCs were detected above the method detection limit in any of the four groundwater samples.

6.0 CONCLUSIONS

Galli Engineering, P.C. has prepared this Remedial Investigation Report (RIR) on behalf of 145 West Street, LLC pursuant to the approved RIWP to present the findings of the Remedial Investigation (RI) as described herein.

This RIR summarizes the results of the extensive site-wide grid sampling program performed at the Site. The absence or presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), Priority Pollutant Metals, polychlorinated biphenyls (PCBs), and herbicides and pesticides at various locations and depths tested, in soil and groundwater are summarized in the text of this report and in Tables 1-11. Based on the analytical and physical data, the following key findings are identified:

Soil Results

- SVOCs and metals are the primary COCs in soil. SVOCs and metals are prevalently throughout the historic fill layer of soils throughout the Site to depths varying from 2 feet on the east side of the Site to 30 feet on the west side of the site
- An area of VOC petroleum contamination was detected in the vicinity of a large 20,000 gallon UST.
- No VOC, SVOC, PCB or herbicide/pesticide were reported in any endpoint sample above the Track 1 SCOs, including in the vicinity of the UST. Therefore, other than in the area of the UST, VOCs contamination at the Site can be addressed through source removal activities in the vicinity of the UST.
- No Semi-Volatile Organic Compounds were reported in any endpoint sample above the Unrestricted limit found at 6 NYCRR 375-6.8(a).
- Some Metals were reported in two endpoint samples above both the Track 1 and Track 2 SCOs in the northwestern portion of the property. As a result, a Track 1 cleanup may be attainable if excavation occurs to a depth greater than the limit of end point boring. However, excavation for new construction in this area is only required to depths of approximately 2-3 feet below ground surface.
- The data suggests that a Track 1 cleanup could be achieved if the historic fill was removed from the Site to the point where Track 1 endpoints can be achieved.
- No PCBs were reported in any sample at the Site above the Track 1 SCOS. Therefore,

PCBs are not a COC at this Site.

- No Pesticides/Herbicides were reported in any sample at the Site above the Track 1 SCOS. Therefore, Pesticides/Herbicides are not a COC at this Site

Groundwater Results

- Metals were the only COCs detected above the groundwater standards in each monitoring well.
- Volatile organic compounds (VOCs) were detected above their method detection limit at varying concentrations in the groundwater samples collected from the monitoring wells, however, except in MW-102, no VOCs were detected above the groundwater standards in any of the groundwater samples. Therefore, VOCs are not a COC in groundwater.
- No SVOCs were detected above the method detection limit in any of the four groundwater samples. Therefore, SVOCs are not a COC in groundwater.

Other Results

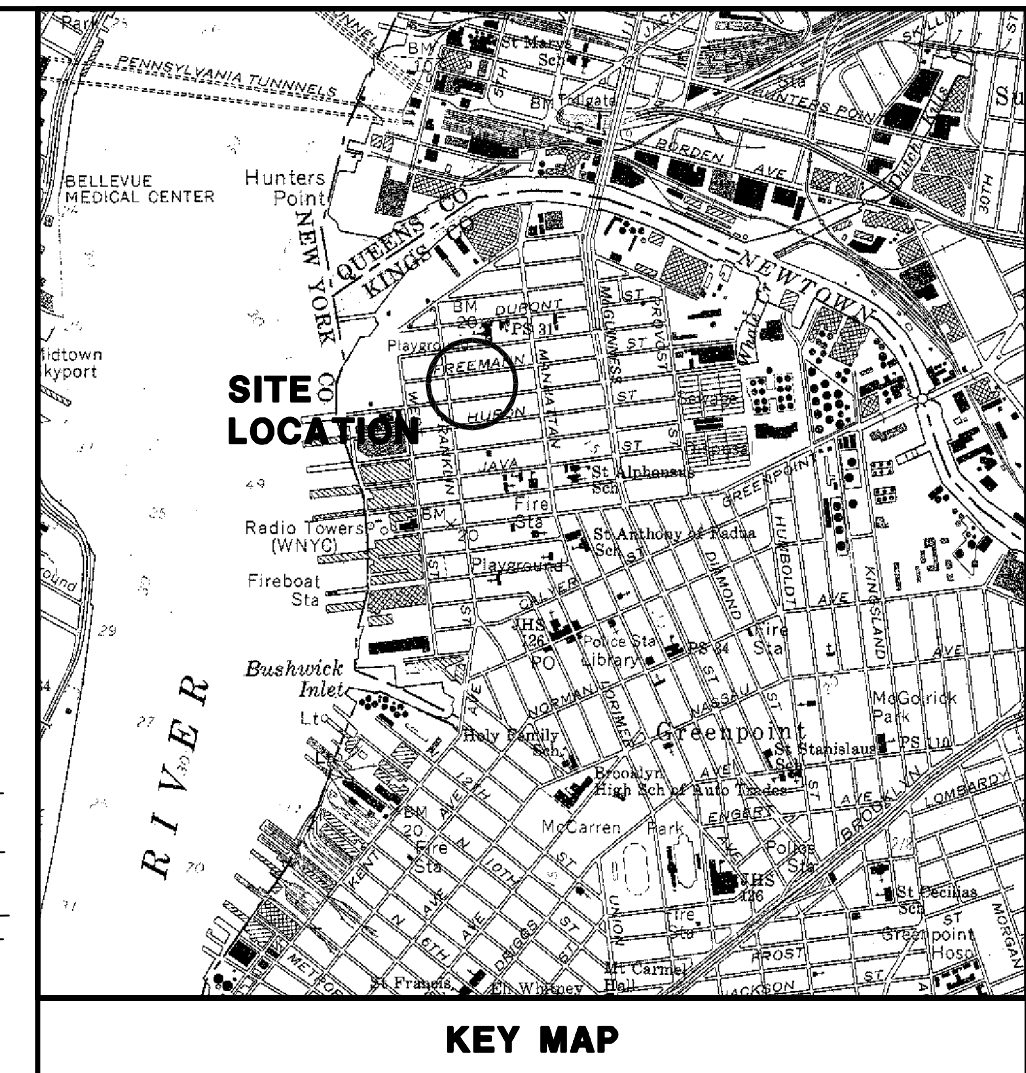
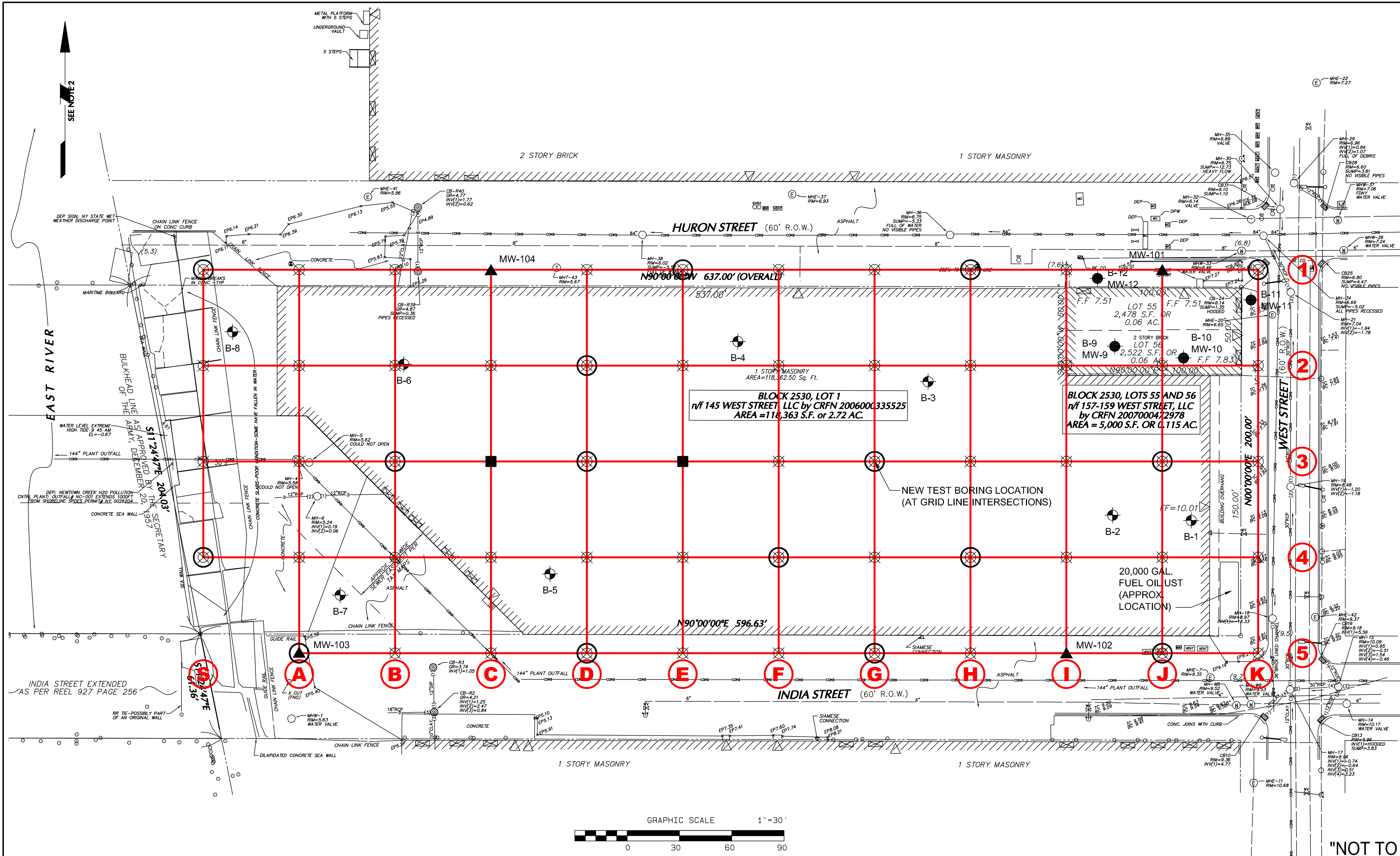
- Since the groundwater sample results from the nearby monitoring well down gradient from the UST site showed no impacts from the petroleum contamination in the vicinity of the UST, the UST must be carefully removed during Site remediation activities to avoid the creation of any environmental impacts from the spill associated with this UST, which currently appears to be confined to the area immediately around UST.
- Two concrete slabs underlie the primary building floor slab, which will make remediation more complicated.

The analytical data confirm that the subject property has been impacted by contaminants that are consistent with the past use of the property. The analytical data collected as part of this investigation indicate that the impacted soils do not meet the criteria for hazardous waste.

APPENDICES

Appendix A

Boring and Monitoring Well Location Plan



- LEGEND**
- HYDRANT
 - STREET LIGHT
 - SIGNAL POLE
 - MANHOLE
 - WATER VALVE
 - GAS VALVE
 - UNKNOWN VALVE
 - CATCH BASIN
 - METAL COVER
 - ELECTRIC BOX
 - DOOR
 - DOUBLE DOOR
 - GARAGE DOOR
 - PARKING METER
 - MONITORING WELL
 - SPOT ELEVATION
 - CLEAN OUT
 - TREE
 - BENCH MARK
 - SIGN
 - POLE
 - BOLLARD
 - STORM DRAIN
 - SANITARY
 - GAS
 - WATER
 - ELECTRIC
 - FENCE (TYPE AS NOTED)
 - OVERHEAD WIRE
 - GUIDE RAIL (TYPE AS NOTED)
 - TELEPHONE
 - TREE LINE
 - REFERENCED UTILITY LINE (TYPE AS NOTED)
 - LEGAL GRADE (TYPICAL)
 - BORING LOCATION (LANGAN 12/08)
 - BORING & MONITORING WELL LOCATION (LANGAN 12/08)
 - NEW MONITORING WELL AND BORING LOCATION
 - NEW TEST BORING LOCATION
 - NEW TEST PIT LOCATION
 - ENDPOINT SAMPLE LOCATION

NOTES

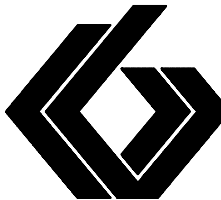
1. BASE SURVEY PERFORMED BY LANGAN, APRIL 2009.
2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO AN ARBITRARY SYSTEM.
3. ELEVATIONS SHOWN ARE REFERENCED TO BROOKLYN BOROUGH DATUM.
4. NO BORINGS OR SAMPLING TO TAKE PLACE IN DEP EASEMENT OR IN INDIA STREET WITHOUT CONSENT OF DEP.
5. DEP TO BE GIVEN MINIMUM ONE WEEK NOTICE PRIOR TO FIELD WORK.
6. OUTFALL WILL BE MONITORED FOR VIBRATION DURING FIELD WORK.
7. SOUTHERN LINE OF SAMPLES MAY BE MOVED INSIDE BUILDING IF DEP HAS CONCERNS ABOUT THEIR 12' OUTFALL IN INDIA STREET.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO PLANS OR DOCUMENTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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"NOT TO BE USED FOR CONSTRUCTION"

REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	AXC		
CHECKED	KLB	SITE REMEDIAL INVESTIGATION BORING AND MONITORING WELL LOCATION PLAN	
APPROVED	RDG		
SEAL			
			Galli engineering, P.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747
DATE	08/16/11	SCALE 1"=30'	DRAWING NO. 1

Appendix B

Soil Boring Logs

Galli Engineering, P.C.
734 Walt Whitman Road
Suite 402-A
Melville, NY 11747

BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: A1
Date: 6/4/2012 Field Scientist: FG
Time: 14:00

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' fill, with ash & brick	0.0
5 - 10	5'-10' various fill	0.0
10 - 15	10'-15' gravel fill	0.0
15 - 20	closed tube; 15'-20' minor fill; black, high organic silt/clay	
20 - 25	closed tube; 20'-25' black, high organic silt/clay	
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @ 9', deep grab sample @ 20'-22' TD = 25 feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: A2
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	Refusal at 3', 3.5', 4'	0.0
5 - 10		
10 - 15		
15 - 20		
20 - 25		
25 - 30		

Note: Refusal at multiple attempts. No sample collected

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: B1
Date: 6/4/2012 Field Scientist: FG
Time: 12:15

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-0.5' concrete; 0.5-5' C&D fill	0.0
5 - 10	5'-10' various fill	0.0
10 - 15	10'-15' fill	0.0
15 - 20	closed tube; 15'-20' sandy silt	
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @ 8', TD = 20 feet

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: B2
Date: 6/6/2012 Field Scientist: FG
Time:

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' cored pebble, no recovery	0.0
5 - 10	5'-10' no recovery	0.0
10 - 15	10'-15' fill, silty gravel, saturated TOW @ 10'	0.0
15 - 20	; 15'-16' fill; 16'-20' black silty clay	
20 - 25	closed tube 20'-25' black silty clay	
25 - 30		

Note: Sample: 10'-20' Composite, VOC grab @ 15', deep grab sample @ 25' TD = 25 feet

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: C1
Date: 6/4/2012 Field Scientist: FG
Time:

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' C&D fill w brick, ash, sand	0.0
5 - 10	5'-10' sand fill with ash	0.0
10 - 15	sand, ash fill; silty sand, wood (cored)	0.0
15 - 20		
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @ 8', TD = 15 feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: C2
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	Refusal at 4'	0.0
5 - 10		
10 - 15		
15 - 20		
20 - 25		
25 - 30		

Note: Refusal at 4' no sample collected

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: C2A
Date: 5/25/2012 Field Scientist: FG
Time: 14:20

DEPTH		DESCRIPTION	PID
0		concrete	
0 - 5		0-6" concrete; 6" - 5' fill w minor brick fragments	0.0
5 - 10		5'-7' ash?; 7'-9' gravel fill – black& brown; 9'-10' coal & coal ash	0.0
10 - 15		10'-12' gravel fill w wood; 12'-15' black gravel fill, wet @ 14'	0.0
15 - 20			
20 - 25			
25 - 30			

Refusal @ 2', offset 8' south

Note:

TD= 15';



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: C3A
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	No Recovery	0.0
5 - 10	5'-6' grey clay; 6'-7' medium brown medium sand; 7'-10' black gravel	0.0
10 - 15	10'-15' black gravel	0.0
15 - 20	No Recovery	0.0
20 - 25	20'-21' black gravel; 21'-25' grey sand	0.0
25 - 30	25'-26' grey clay; 26'-30' light brown clay	0.0

Note: VOC collected at 30'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: C5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	1'-5' dark brown coarse sand	0.0
5 - 10	5'-9' dark brown coarse sand; 9'-10' brick	0.0
10 - 15	10'-13' gravel; 13' brick; 14'-15' medium brown medium sand	0.0
15 - 20	15'-20' gravel, some brick	0.0
20 - 25	20'-22' gravel; 22'-25' medium brown clay	0.0
25 - 30		

Note: VOC collected at 25'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: D1
Date: 6/4/2012 Field Scientist: FG
Time:

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' fill w brick, ash, sand	0.2
5 - 10	C&D fill with brick and ash	0.0
10 - 15	10'-12" coarse sand fill w shell; 12'-15' silty sand, dk gray to black	0.0
15 - 20	closed tube, 15'-17' dark gray silty sand; 17'-20' tan silty fn sand	
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @ 8', TD = 20 feet

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: D2
Date: 6/6/2012 Field Scientist: FG
Time:

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' cored pebble, no recovery	0.0
5 - 10	5'-10' concrete frags, black silty gravel at shoe 20% recovery	0.0
10 - 15	10'-15' black silty gravel, saturated 10% recovery	0.0
15 - 20	No recovery	
20 - 25	closed tube 20'-25' dk brown to lt brown sand 25% recovery	
	top of native material @ approximately 24'	

Note: Sample: No enough material to sample, deep grab sample @ 25' TD = 25 feet
Field Blank



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: D3
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-5' no recovery	0.0
5 - 10	5'-8' grey fine sand; 8'-10' black gravel	0.0
10 - 15	10'-13' grey fine sand; 13'-15' black gravel	0.0
15 - 20	15'-17' grey gravel	0.0
20 - 25		
25 - 30		

Note: VOC collected at 17'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: D4
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-5' concrete	0.0
5 - 10	5'-6' concrete; 6'-10' dark brown coarse sand	7.6
10 - 15	10'-15' black coarse sand	18.7
15 - 20	15'-20' black coarse sand	0.0
20 - 25		
25 - 30		

Note: VOC collected at 11'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: D5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' gravel; 2'-4' dark brown coarse sand; 4'-5' brick	0.0
5 - 10	5'-6' dark brown gravel; 7'-8' brick; 8'-10' dark brown gravel	0.0
10 - 15	10'-14' grey gravel; 14'-15' grey clay	0.0
15 - 20	15'-17' grey gravel; 17'-19' grey silt; 19'-20' tan silt	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: E1
Date: 6/4/2012 Field Scientist: FG
Time: 09:40

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' fill w brick	0.2
5 - 10	coarse sandy fill	0.0
10 - 15	sandy silt, black to dk olive	0.0
15 - 20		
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @ 8', TD = 15 feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: E2
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' concrete; 2'-3' medium brown sand; 3'-5' dark brown sand	5.6
5 - 10	5'-10' grey coarse sand	0.0
10 - 15	10'-12' gravel; 12'-15' grey clay	0.0
15 - 20	15'-17' grey silt; 17'-20' light brown silt	0.0
20 - 25	20'-25' light brown clay	
25 - 30		

Note: VOC collected at 25'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: E5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-3' grey coarse sand; 3'-4' black coarse sand; 4'-5' grey clay	0.0
5 - 10	5'-8' grey gravel; 8'-10' grey clay	0.0
10 - 15	10'-15' grey coarse sand	0.0
15 - 20	15'-16' grey gravel; 16'-20' tan clay	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: F1
Date: 6/4/2012 Field Scientist: FG
Time: 08:30

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' fill w brick	0.2
5 - 10	5'-6' dk silty, high organic; 6'-8' lt brown silty w shells; 8'-10' ash?	0.0
10 - 15	10'-12.5' lt brown sand; 12.5'-15' black, high organic silt	0.0
15 - 20	~2' collapse; 15'-20' lt brown sandy silt	
20 - 25	closed tube; 20'-25' brn slty sand, lt gray clay in shoe,	
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @ 8', TD = 25 feet

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: F1 Deep
Date: 6/11/2012 Field Scientist: FG
Time: 13:25

DEPTH	DESCRIPTION	PID
0		
0 - 5		0.0
5 - 10		0.0
10 - 15		0.0
15 - 20	Pushed with closed tube to 20'	
20 - 25	20'-25' clay/silt-olive /gray w white clay in shoe	
25 - 30		

Note: Sample: deep grab sample @ 25' TD = 25 feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: F2
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' concrete; 3'-4' grey clay; 4'-5' black coarse sand	0.0
5 - 10	5'-10' black medium sand	0.0
10 - 15	10'-12' black coarse sand; 12'-15' grey clay	0.0
15 - 20	15'-20' light brown clay	0.0
20 - 25	20'-25' light brown clay	
25 - 30	25'-30' light brown clay	

Note: VOC collected at 20' (F2) and 30' (F2 deep)



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: F3
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' concrete; 2'-3' gravel; 3'-4' grey fine sand; 4'-5' medium brown fine sand	0.0
5 - 10	5'-10' grey fine sand	0.0
10 - 15	10'-13' grey fine sand; 13'-15' light brown clay	0.0
15 - 20		
20 - 25		
25 - 30		

Note: VOC collected at 15'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: F4
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-3' concrete; 3'-5' no recovery	0.0
5 - 10	5'-8' no recovery; 8'-9' grey coarse sand; 0'-10' black coarse sand	8.4
10 - 15	10'-15' black coarse sand	0.0
15 - 20	15'-17' gravel	0.0
20 - 25		
25 - 30		

Note: VOC collected at 9' and 14'
 Hydrocarbon odor at 13'-14'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: F5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-1' grey medium sand; 1'-2' black medium sand; 2'-5' dark brown med sand	0.0
5 - 10	5'-10' black medium sand	0.0
10 - 15	10'-11' black medium sand; 11'-14' light brown clay; 14'-15' grey fine sand	0.0
15 - 20	15'-16' black clay; 16'-20' light brown fine clay	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: G1
Date: 6/1/2012 Field Scientist: FG
Time:

DEPTH	DESCRIPTION	PID
0		
0 - 5	C & D fill	0.0
5 - 10	5'-6' C& D fill; 6'-7' wood; 7'-8' dk gray sand; 8'-10' high organic, wood	0.0
10 - 15	10'-14.5' brown sand; 14.5'-15' silty sand w minor pebbles	0.0
15 - 20		0.0
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @12', TD = 15'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: G2
Date: 5/25/2012 Field Scientist: FG
Time: 09:00

DEPTH		DESCRIPTION	PID
0		concrete	
0 - 5		0-6" concrete; fill w minor coal	0.0
5 - 10		5'-9' dk brown sandy fill; 9'-9.5' wood; 9.5' – 10' fine sand	0.0
10 - 15		Brown, v fine sand, all wet, top of water ~13',	0.0
15 - 20			
20 - 25			
25 - 30			

Note: Refusal @ 2', offset 8' south
VOC collected at 7' TD= 15';

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: G2A
Date: 6/11/2012 Field Scientist: FG
Time: 08:00

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' cored pebble, no recovery	0.0
5 - 10	5'-10' fill, black, C&D, ash	0.0
10 - 15	10'-12' C&D fill; 12'-14.5' fn-med sand; 14.5'-15' gray silty sand	0.0
15 - 20	15'-19' fine silty sand; 19'-20' silt to clay	
20 - 25		

Note: Sample: 5'-15' composite sample, VOC grab @ 11' TD = 20 feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: G5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-4' grey coarse sand; 4'-5' medium brown fine sand	0.0
5 - 10	5'-10' grey medium sand	0.0
10 - 15	10'-12' grey coarse sand; 12'-15' grey clay	0.0
15 - 20	15'-18' grey coarse sand; 18'-20' tan clay	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: H1
Date: 6/1/2012 Field Scientist: FG
Time: 08:15

DEPTH	DESCRIPTION	PID
0		
0 - 5	C & D fill, brick, sand, black organic matter	0.2
5 - 10	5'-6' C& D fill; 6'-8' sandy fill - orange brown; 8'-10' dk brown sand	0.0
10 - 15	10'-12' dk brown sand; 12'-13' silty clay; 13'-15' silty sand w minor schist	0.0
15 - 20	15'-20' brown fine sand;	0.0
20 - 25	20'-25' brown fine sand;	
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @ 8', 20'-22' deep grab sample TD = 27'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: H2
Date: 6/11/2012 Field Scientist: FG
Time: 08:45

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' core drilled, no recovery	0.0
5 - 10	5'-10' dk brown-black fill, with C&D, ash	0.0
10 - 15	10'-14' dk brown-gray sandy fill; 14'-15' gray silty sand. TOW @12'	0.0
15 - 20	15'-19' fine silty sand; 19'-20' silt to clay, brown to olive	
20 - 25	20'-21' collapse; 21'-25' brown to tan, sand to silty sand	

Note: Sample: 5'-15' composite sample, VOC grab @ 11' , deep grab sample @ 25' TD = 25 feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: H3
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' concrete; 2'-5' dark brown medium sand, some brick	0.0
5 - 10	5'-7' black coarse sand; 7'-10' black fine silt	0.0
10 - 15		
15 - 20		
20 - 25		
25 - 30		

Note: VOC collected at 10'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: H4
Date: 6/1/2012 Field Scientist: FG
Time:

DEPTH	DESCRIPTION	PID
0		
0 - 5	C & D fill	0.0
5 - 10	5'-10' fill-sandy, some C&D, brick	0.0
10 - 15	10'-14' fill, wood, ash, C&D; 14'-15' light brown sand	0.0
15 - 20	Refusal at 15+ feet	0.0
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @12', TD = 15+ feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: H5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-5' dark brown coarse sand	0.0
5 - 10	5'-7' dark brown clay; 7'-8' light brown clay; 8'-10' grey fine sand	0.0
10 - 15	10'-12' grey fine sand; 12'-15' grey clay	0.0
15 - 20	15'-17' grey fine sand; 17'-20' light brown clay	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: I1
Date: 6/1/2012 Field Scientist: FG
Time: 08:15

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-6" asphalt; 6" - 5' fill with C & D debris	0.0
5 - 10	brown sandy-silt;	0.0
10 - 15	brown sandy-silt; TOW @ 10'	0.0
15 - 20	15'-10' brown fine sand; 19'-20' light gray silt/clay	0.0
20 - 25	20'-23' light gray clay, plastic, greasy; 23'-25' brown light sand	
25 - 30	25'-27' no recovery, Refusal @ 27'	

Note: Sample: 0-15' Composite, VOC grab @ 8', 20'-25' deep grab sample TD = 27'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: I1R
Date: 6/11/2012 Field Scientist: FG
Time: 14:15

DEPTH	DESCRIPTION	PID
	I-1 Replacement	
0		
0 - 5	0'-5' fill	0.0
5 - 10	5'-7' fill; 7'-10' silty sand; wet @ 8'	0.0
10 - 15	10'-13' sand; 13'-15' silty sand	0.0
15 - 20	15'-19' medium sand; 19'-20' silt/clay	
20 - 25	20'-21' white clay/silt; 21'-25' gray silty clay	
25 - 30		

Note: Sample: deep grab sample @ 25' TD = 25 feet

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: I2
Date: 5/25/2012 Field Scientist: FG
Time: 08:32

DEPTH		DESCRIPTION	PID
0		concrete	
0 - 5		0'-0.5' concrete; Fill, poor recovery	0.0
5 - 10		5' – 8' fill, brick; 8' – 10' fine silty sand, brown to olive	5.0
10 - 15		v. good recovery; gray to olive silty sand, @ 14.5' brown silty sand	25.0
15 - 20		petroleum odor @ 10'-15'	
20 - 25		PID 25 @ 12'	
25 - 30			

Note: VOC collected at 7' TD= 15';



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: I 3
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	2'-3', 4'-5' medium-fine grey sand; 3'-4' medium brown sand	0.0
5 - 10	5'-7' medium brown coarse gravel; 7'-10' grey clay	0.0
10 - 15	10'-12' grey clay; 12'-15' light brown clay	0.0
15 - 20		
20 - 25		
25 - 30		

Note: VOC collected at 15'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: I3 Deep
Date: 6/11/2012 Field Scientist: FG
Time: 10:50

DEPTH	DESCRIPTION	PID
0		
0 - 5		0.0
5 - 10		0.0
10 - 15	Pushed with closed tube to 15'	0.0
15 - 20	15'-17' fn to med sand dk gray; 17'-19' med to fn sand dk gray, 19'-20' silt/clay	
20 - 25	20'-22' med to fn sand, brn-gray; 22'-25' gray silt/clay; saturated	

Note: Sample: deep grab sample @ 25' TD = 25 feet

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: I4
Date: 6/1/2012 Field Scientist: FG
Time:

DEPTH	DESCRIPTION	PID
0		
0 - 5	C & D fill	0.0
5 - 10	5'-9' fill-sandy; 9'-10' silty sand	0.0
10 - 15	10'-13' brown silty sand; 13'-15' brown fine sand	0.0
15 - 20	Refusal at 15 feet	
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @12', TD = 15 feet



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: I5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-1' grey medium sand; 1'-2' black medium sand; 2'-5' light brown fine sand	0.0
5 - 10	5'-8' light brown clay; 8'-10' grey clay	0.0
10 - 15	10'-15' medium brown clay	0.0
15 - 20	15'-20' grey clay	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: J1
Date: 5/31/2012 Field Scientist: FG
Time: 15:00

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-6" asphalt; 6" - 5' sandy fill	0.0
5 - 10	5'-6' brown sandy fill; 6'-7' black silt; 7'-9' gray fine sand; 9'-10' brown sand	
10 - 15	brown sandy-silt; wet @ 8'	
15 - 20		
20 - 25		
25 - 30		

Note: Sample: 0-10' Composite, VOC grab @ 8', TD = 15'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: J3
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' concrete; 2'-5' light brown coarse sand	0.0
5 - 10	5'-10' light brown fine silt	0.0
10 - 15	10'-12' light brown fine silt; 12'-15' grey fine silt	0.0
15 - 20		
20 - 25		
25 - 30		

Note: VOC collected at 15'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: J4
Date: 6/11/2012 Field Scientist: FG
Time: 10:00

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-5' core drilled, no recovery	0.0
5 - 10	5'-7' C&D fill; 7'-8' silty sand dry; 8'-10' silt/clay moist	0.0
10 - 15	10'-11' collapse; 11'-12' silty sand, sat; 12'-15' med to fn sand, gray to brown	0.0
15 - 20	15'-16' collapse; 16'-19.5' med sand, 19.5'-20' silt/clay	
20 - 25	20'-23' med to fine sand; 23'-24' brn sandy silt; 24'-25' gray silt/clay	

Note: Sample: 5'-15' composite sample, VOC grab @ 12' , deep grab sample @ 25' TD = 25 feet
also: Duplicate' Matrix spike, matrix spike duplicate



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: J5
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' dark brown medium sand; 2'-5' light brown fine sand	0.0
5 - 10	5'-8' light brown clay; 8'-10' grey clay	0.0
10 - 15	10'-12' light brown clay; 12'-15' grey fine sand	0.0
15 - 20	15'-16' light brown fine sand; 16'-17' grey fine sand; 17'-20' grey clay	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: K2
Date: 5/31/2012 Field Scientist: FG
Time: 12:20

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0-6" concrete; 6" - 5' fill	0.0
5 - 10	gray sandy-silt	0.0
10 - 15	gray sandy-silt	0.0
15 - 20	Refusal @ 17', no recovery	
20 - 25		
25 - 30		

Note: Sample: 0-15' Composite, VOC grab @11', TD = 17'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: K3
Date: 5/31/2012 Field Scientist: FG
Time: 11:40

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0-6" concrete; 6" - 5' fill	0.0
5 - 10	brown and tan silty fine sand, moist @ 8'	0.0
10 - 15	fine sand, saturated	0.0
15 - 20	brown-dark brown sand, saturated	
20 - 25		
25 - 30		

Note: Sample: 0-12' Composite, VOC grab @ 7', deep grab sample @ 20'; TD = 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: K4
Date: 5/31/2012 Field Scientist: FG
Time: 10:45

DEPTH		DESCRIPTION	PID
0		concrete	
0 - 5		0'-0.5' concrete; 0.5' -gravel fill w brick	0.0
5 - 10		5'-7' fill; 7'-10' brown to gray fine sand, petro odor, TOW @ 9'	0.0
10 - 15		10'-15' all saturated, product @ 10'	0.0
15 - 20		15'-18' fine silty sand, gray to brown; 18'-20'brown silt, tight	
20 - 25			
25 - 30			

Note: VOC sample at 10'; deep sample at 20'; TD 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: K4 Deep
Date: 6/11/2012 Field Scientist: FG
Time: 11:45

DEPTH	DESCRIPTION	PID
0		
0 - 5		0.0
5 - 10		0.0
10 - 15		0.0
15 - 20	Pushed with closed tube to 20'	
20 - 25	20'-25' silty clay	
25 - 30	25'-26' white/lt gray silty clay; 26'-30' sandy gravel w red pebbles	

Note: Sample: deep grab sample @ 25' TD = 30 feet

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: K5
Date: 5/31/2012 Field Scientist: FG
Time: 08:30

DEPTH		DESCRIPTION	PID
0		concrete	
0 - 5		0'-0.5' concrete; 0.5' -gravel fill w brick	0.0
5 - 10		5'-7' fill; 7'-10' brown to gray fine sand, petro odor, TOW @ 9'	
10 - 15		10'-15' all saturated, product @ 10'	
15 - 20		15'-18' fine silty sand, gray to brown; 18'-20' brown silt, tight	
20 - 25			
25 - 30			

Note: VOC sample at 10'; deep sample at 20'; TD 20'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: S1
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' concrete; 2'-5' asphalt	0.0
5 - 10	5'-10' black coarse sand	0.0
10 - 15	10'-15' black coarse sand	0.0
15 - 20	15'-20' black coarse sand	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: S2
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-3' concrete; 3'-5' asphalt	0.0
5 - 10	5'-8' black coarse sand; 8'-10' grey coarse sand	0.0
10 - 15	10'-15' grey coarse sand	0.0
15 - 20	15'-20' grey coarse sand	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'



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SOIL BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: S4
Date: 5/21/2012 Field Scientist: SD

DEPTH	DESCRIPTION	PID
0	concrete	
0 - 5	0'-2' concrete; 2'-5' asphalt	0.0
5 - 10	5'-6' grey clay; 6'-9' gravel; 9'-10' grey clay	0.0
10 - 15	10'-11' gravel; 11'-15' grey clay	0.0
15 - 20	15'-20' gravel	0.0
20 - 25		
25 - 30		

Note: VOC collected at 20'

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: TEST PIT C3
Date: 6/1/2012 Field Scientist: FG
Time: 14:00

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-6" concrete; 6"-3' C & D fill; 3.5'-4.0' concrete; fill; 4'-4.5' concrete	0.0
5 - 10	4.5'-10' brown fine sand	0.0
10 - 15	10'-11' brown fine sand; TOW 11'	0.0
15 - 20		
20 - 25		
25 - 30		

Note: Sample: 0-11' Composite, VOC from stockpile TD = 11'
 Complete with skid steer mounted concrete breaker and back hoe.

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BORING LOG

Site: 145 West Street, Brooklyn Soil Boring Designation: TEST PIT E3
Date: 6/1/2012 Field Scientist: FG
Time: 13:00

DEPTH	DESCRIPTION	PID
0		
0 - 5	0-6" concrete; 6"-3' construction fill; 3'-3.5' asphalt; 3.5-4' concrete	0.0
5 - 10	4'-10' brown fine sand	0.0
10 - 15	10'-11' brown fine sand	0.0
15 - 20		
20 - 25		
25 - 30		

Note: Sample: 0-11' Composite, VOC from stockpile TD = 11'
Complete with skid steer mounted concrete breaker and back hoe.

Appendix C

Monitoring Well Installation Logs

Well Installation Form



Galli Engineering, P.C.
734 Walt Whitman Road, Suite 402A
Melville, New York 11747
Phone: (631) 271-9292 Fax: (631) 271-9357

Project:

Huxley Envelope Site
145 West Street
Brooklyn, NY

Well ID: MW-101

Total Depth: 20.1'

Top of Casing: 6.18'

Driller: J Sakellis, Trinity Environmental

Drilling

Date

Time

Drill Method: Geoprobe 7600, 5 1/2 inch HSA

Started

6/5/2012

Borehole Diameter: 5 1/2 "

Finished

6/5/2012

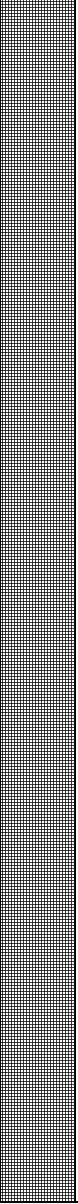
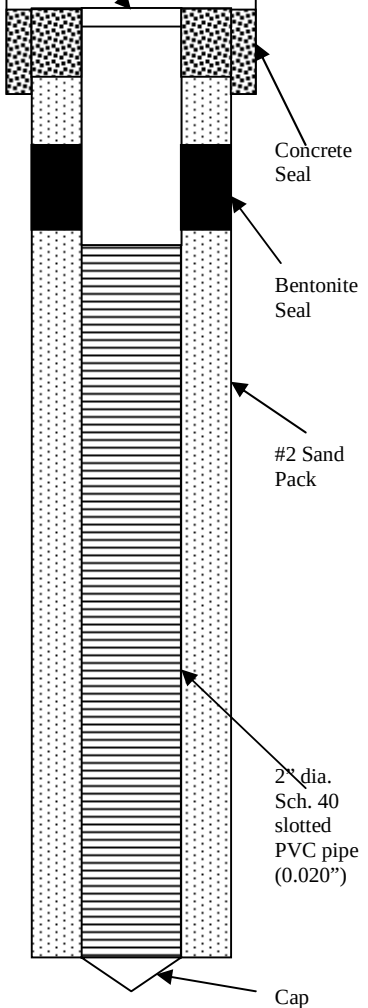
Well Type: monitoring

Well Diameter: 2"

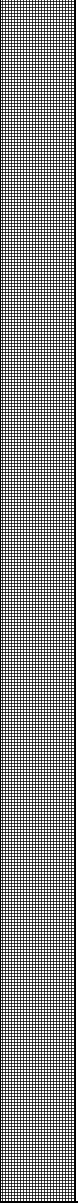
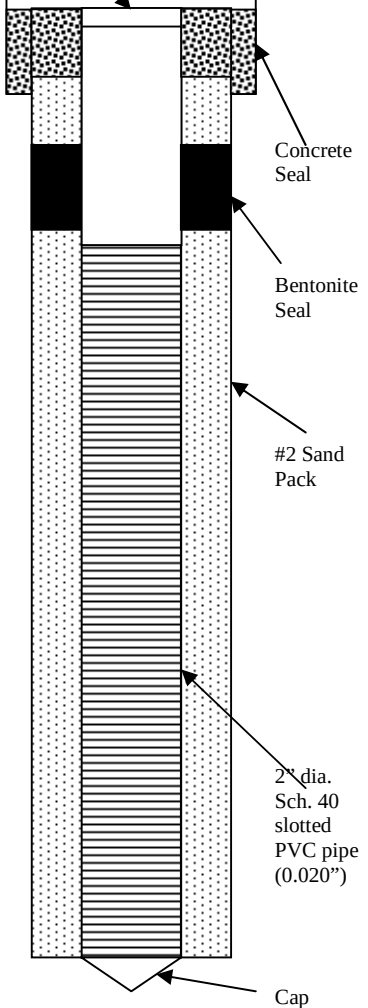
Logged By: F. Gehrting

Additional Information	Depth (feet)	Graphic Log	Materials Description	Well Completion
No samples were retained for laboratory analysis.	1		Description of drill cuttings taken off of auger flights shows material to be very fine sand to silt with some clay layers. 0-20' Confirmed by soil borings which are near the monitoring well.	
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
	14			
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	17			
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	20			
	21			
	22			
	23			
	24			
	25			

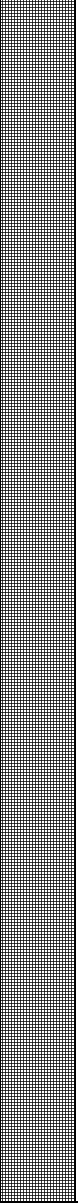
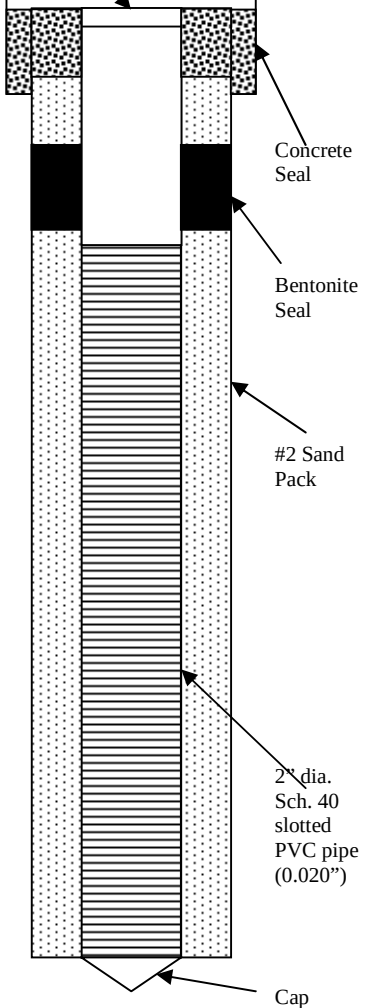
Well Installation Form

 Galli Engineering, P.C. 734 Walt Whitman Road, Suite 402A Melville, New York 11747 Phone: (631) 271-9292 Fax: (631) 271-9357		Project: Huxley Envelope Site 145 West Street Brooklyn, NY		Well ID: MW-102	
				Total Depth: 20.1'	
				Top of Casing: 8.41'	
Driller: J Sakellis, Trinity Environmental		Drilling	Date	Time	
Drill Method: Geoprobe 7600, 5 1/2 inch HSA		Started	6/5/2012		
Borehole Diameter: 5 1/2 "		Finished	6/5/2012		
Well Type: monitoring		Well Diameter: 2"		Logged By: F. Gehrling	
Additional Information	Depth (feet)	Graphic Log	Materials Description	Well Completion	
No samples were retained for laboratory analysis.	1		Description of drill cuttings taken off of auger flights shows material to be very fine sand to silt with some clay layers. 0-20' Confirmed by soil borings which are near the monitoring well.		

Well Installation Form

 Galli Engineering, P.C. 734 Walt Whitman Road, Suite 402A Melville, New York 11747 Phone: (631) 271-9292 Fax: (631) 271-9357		Project: Huxley Envelope Site 145 West Street Brooklyn, NY		Well ID: MW-103	
				Total Depth: 20.1'	
				Top of Casing: 4.64'	
Driller: J Sakellis, Trinity Environmental		Drilling	Date	Time	
Drill Method: Geoprobe 7600, 5 1/2 inch HSA		Started	6/5/2012		
Borehole Diameter: 5 1/2 "		Finished	6/5/2012		
Well Type: monitoring		Well Diameter: 2"		Logged By: F. Gehrling	
Additional Information	Depth (feet)	Graphic Log	Materials Description	Well Completion	
No samples were retained for laboratory analysis.	1		Description of drill cuttings taken off of auger flights shows material to be very fine sand to silt with some clay layers. 0-20' Confirmed by soil borings which are near the monitoring well.		

Well Installation Form

 Galli Engineering, P.C. 734 Walt Whitman Road, Suite 402A Melville, New York 11747 Phone: (631) 271-9292 Fax: (631) 271-9357		Project: Huxley Envelope Site 145 West Street Brooklyn, NY		Well ID: MW-104	
				Total Depth: 20'	
				Top of Casing: 4.80'	
Driller: J Sakellis, Trinity Environmental		Drilling	Date	Time	
Drill Method: Geoprobe 7600, 5 1/2 inch HSA		Started	6/6/2012		
Borehole Diameter: 5 1/2 "		Finished	6/6/2012		
Well Type: monitoring		Well Diameter: 2"		Logged By: F. Gehrling	
Additional Information	Depth (feet)	Graphic Log	Materials Description	Well Completion	
Refusal reported by driller at 13' bgs on first attempt. No samples were retained for laboratory analysis.	1		Description of drill cuttings taken off of auger flights shows material to be very fine sand to silt with some clay layers. 0-20' Confirmed by soil borings which are near the monitoring well.		
	2				
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Appendix D

Monitoring Well Sampling Logs



Galli Engineering, P.C.
734 Walt Whitman Road, Suite 402A
Melville, New York 11747
Phone: (631) 271-9292 Fax: (631) 271-9345

Well ID: MW-101

Sampling Date: 9/21/2012

Job Number:

Client Name:

Well Diameter: 2"

Well Depth: 20'

Project Name: Huxley Envelope Site

Well Condition: New

Water Level: 6.75

Location: 145 West St, Brooklyn, NY

Sampler(s): Frank Gehrling

PURGING/SAMPLING:

Total Gallons Purged: _____ gallons

Sample Method: low flow bladder pump

Purge Method: low flow

Sample Parameters:

Purge/Flow Rate: approx 1L/min

Odor/Product: None noticed

Parameter	Units							
Time	Hrs	10:38	10:45	10:49	11:00	11:16	11:23	11:30
pH	SU	6.85	6.82	6.85	6.88	6.89	6.91	6.91
Conductivity	mS/cm	2.00	1.97	1.93	1.97	1.90	1.86	1.88
Turbidity	NTU	-	144	379	8.41	421	138	8.6
Dissolved Oxygen	mg/L	10.96	11.12	9.48	10.62	9.71	8.38	8.36
Temperature	°C	20.56	20.63	20.67	20.62	20.65	20.73	20.77
TDS	g/L	1.28	1.26	1.24	1.26	1.22	1.19	1.20
Depth to Water	Feet					8.00	8.00	8.00

Comments: Sampled at 11.30

Sampler Signature(s):



Galli Engineering, P.C.
734 Walt Whitman Road, Suite 402A
Melville, New York 11747
Phone: (631) 271-9292 Fax: (631) 271-9345

Well ID: MW-102

Sampling Date: 9/24/2012

Job Number:

Client Name:

Well Diameter: 2"

Well Depth:

Project Name: Huxley Envelope Site

Well Condition: New

Water Level: 7.59

Location: 145 West St, Brooklyn, NY

Sampler(s): Frank Gehrling

PURGING/SAMPLING:

Total Gallons Purged: _____ gallons

Sample Method: low flow bladder pump

Purge Method: low flow

Sample Parameters:

Purge/Flow Rate: approx 1L/min

Odor/Product: None noticed

Parameter	Units							
Time	Hrs	09:03	09:14	09:21	09:34	09:44		
pH	SU	7.39	7.20	7.19	7.20	7.19		
Conductivity	mS/cm	1.31	1.10	1.12	1.16	1.18		
Turbidity	NTU	0.0?	230	85.1	0.0	0.0		
Dissolved Oxygen	mg/L	-	1.87	1.37	0.86	0.99		
Temperature	°C	22.21	23.37	23.48	23.45	23.55		
TDS	g/L	0.837	0.705	0.718	0.745	0.753		
Depth to Water	Feet	8.01	8.15	8.20	8.30	8.29		

Comments: Sampled at 09:44

Sampler Signature(s):



Galli Engineering, P.C.
734 Walt Whitman Road, Suite 402A
Melville, New York 11747
Phone: (631) 271-9292 Fax: (631) 271-9345

Well ID: MW-103

Sampling Date: 9/21/2012

Job Number:

Client Name:

Well Diameter: 2"

Well Depth:

Project Name: Huxley Envelope Site

Well Condition: New

Water Level: 4.32

Location: 145 West St, Brooklyn, NY

Sampler(s): Frank Gehrling

PURGING/SAMPLING:

Total Gallons Purged: _____ gallons

Sample Method: low flow bladder pump

Purge Method: low flow

Sample Parameters:

Purge/Flow Rate: approx 1L/min

Odor/Product: None noticed

Parameter	Units							
Time	Hrs	14:36	14:46	14:54	15:06	15:13		
pH	SU	7.02	7.01	6.99	6.98	6.97		
Conductivity	mS/cm	34.9	34.9	34.8	34.8	34.8		
Turbidity	NTU	0.0	0.0	0.0	0.0	0.0		
Dissolved Oxygen	mg/L	25.99	12.68	4.50	4.04	3.89		
Temperature	°C	24.77	24.79	24.83	24.88	24.91		
TDS	g/L	21.3	21.3	21.3	21.3	21.3		
Depth to Water	Feet	4.20	4.18	4.15	4.16	4.13		

Comments: Sampled at 15:13

Sampler Signature(s):



Galli Engineering, P.C.
734 Walt Whitman Road, Suite 402A
Melville, New York 11747
Phone: (631) 271-9292 Fax: (631) 271-9345

Well ID: MW-104

Sampling Date: 9/21/2012

Job Number:

Client Name:

Well Diameter: 2"

Well Depth: 20'

Project Name: Huxley Envelope Site

Well Condition: New

Water Level:

Location: 145 West St, Brooklyn, NY

Sampler(s): Frank Gehrling

PURGING/SAMPLING:

Total Gallons Purged: _____ gallons

Sample Method: low flow bladder pump

Purge Method: low flow

Sample Parameters:

Purge/Flow Rate: approx 1L/min

Odor/Product: None noticed

Parameter	Units							
Time	Hrs	12:32	12:41	12:51	13:01	13:15	13:20	13:26
pH	SU	7.04	7.05	7.05	7.04	7.04	7.03	7.03
Conductivity	mS/cm	13.9	14.1	14.2	14.2	14.2	14.2	14.2
Turbidity	NTU	24.8	0.0	0.0	0.0	0.0	0.0	0.0
Dissolved Oxygen	mg/L	0.72	0.51	0.49	0.68	1.07	1.14	0.93
Temperature	°C	19.8	19.55	19.45	19.48	19.52	19.54	19.54
TDS	g/L	8.63	8.74	8.78	8.80	8.81	8.81	8.83
Depth to Water	Feet	5.20	5.25	5.26	5.15	5.10	5.08	5.02

Comments: Sampled at 13:26

Sampler Signature(s):

Appendix E

Analytical Results Summary Tables

Table 1 - Groundwater Volatile Organics Analysis

Huxley Envelope Site

Phoenix Environmental Laboratories, Inc.		Lab Sample Id									
		Collection Date									
		Client Id									
		Matrix									
Project Id : 145 WEST ST.		Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL	Result	RL
Volatiles By SW8260											
1,1,1-Trichloroethane	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
1,1,2,2-Tetrachloroethane	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
1,1,2-Trichloroethane	ug/L	1	ND	1	ND	3	ND	1	ND	1	1
1,1-Dichloroethane	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
1,1-Dichloroethene	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
1,2,3-Trichlorobenzene	ug/L		ND	1	ND	1	ND	1	ND	1	1
1,2,4-Trichlorobenzene	ug/L		ND	1	ND	1	ND	1	ND	1	1
1,2-Dibromo-3-chloropropane	ug/L	0.04	ND	0.5	ND	1	ND	0.5	ND	0.5	0.5
1,2-Dibromoethane	ug/L	0.0006	ND	0.5	ND	1	ND	0.5	ND	0.5	0.5
1,2-Dichlorobenzene	ug/L		ND	1	ND	5	ND	1	ND	1	1
1,2-Dichloroethane	ug/L	0.6	ND	0.6	ND	2	ND	0.6	ND	0.6	0.6
1,2-Dichloropropane	ug/L	1	ND	1	ND	1	ND	1	ND	1	1
1,3-Dichlorobenzene	ug/L	3	ND	1	ND	5	ND	1	ND	1	1
1,4-Dichlorobenzene	ug/L		ND	1	ND	5	ND	1	ND	1	1
2-Hexanone	ug/L	50	ND	1	ND	1	ND	1	ND	1	1
4-Methyl-2-pentanone	ug/L		ND	1	ND	1	ND	1	ND	1	1
Acetone	ug/L	50	ND	1	ND	1	ND	1	ND	1	1
Benzene	ug/L	1	ND	0.7	ND	0.7	ND	0.7	ND	0.7	0.7
Bromochloromethane	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Bromodichloromethane	ug/L	50	ND	1	ND	1	ND	1	ND	1	1
Bromoform	ug/L	50	ND	5	ND	5	ND	5	ND	5	5
Bromomethane	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
Carbon Disulfide	ug/L		ND	1	ND	1	ND	1	ND	1	1
Carbon tetrachloride	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Chlorobenzene	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
Chloroethane	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
Chloroform	ug/L	7	ND	5	ND	5	ND	5	ND	5	5
Chloromethane	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
cis-1,2-Dichloroethene	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
cis-1,3-Dichloropropene	ug/L	0.4	ND	0.4	ND	1	ND	0.4	ND	0.4	0.4
Cyclohexane	ug/L		ND	5	ND	5	ND	5	ND	5	5
Dibromochloromethane	ug/L	50	ND	1	ND	1	ND	1	ND	1	1
Dichlorodifluoromethane	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Ethylbenzene	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
Isopropylbenzene	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
m&p-Xylene	ug/L		ND	1	ND	1	ND	1	ND	1	1
Methyl ethyl ketone	ug/L	50	ND	1	ND	1	ND	1	ND	1	1
Methyl t-butyl ether (MTBE)	ug/L		ND	1	1.6	1	ND	1	ND	1	1
Methylacetate	ug/L		ND	5	ND	5	ND	5	ND	5	5
Methylcyclohexane	ug/L		ND	5	ND	5	ND	5	ND	5	5
Methylene chloride	ug/L	5	ND	3	ND	3	ND	3	ND	3	3
o-Xylene	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Styrene	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Tetrachloroethene	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Toluene	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
Total Xylenes	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
trans-1,2-Dichloroethene	ug/L	5	ND	5	ND	5	ND	5	ND	5	5
trans-1,3-Dichloropropene	ug/L	0.4	ND	0.4	ND	1	ND	0.4	ND	0.4	0.4
Trichloroethene	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Trichlorofluoromethane	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Trichlorotrifluoroethane	ug/L	5	ND	1	ND	1	ND	1	ND	1	1
Vinyl chloride	ug/L	2	ND	1	ND	1	ND	1	ND	1	1
1,4-dioxane By SW8260											
1,4-dioxane	ug/l		ND	100	ND	100	ND	100	ND	100	100

Result Detected: RL Exceeds Criteria: Result Exceeds Criteria:

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Lab Sample Id

BC72877
BC72878

BC72879
BC72880

Sample Comments

No Comments

Thallium comment:

The analytical spike for this sample was outside of acceptance criteria, multiple analyses verified matrix interference. Due to the matrix interference, an elevated RL is reported.

No Comments

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Table 2 - Groundwater Semi Volatile Organics Analysis
Huxley Envelope Site

Environmental Laboratories, Inc.

587 East Middle Turnpike

P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Project Id : 145 WEST ST.

Lab Sample Id
Collection Date
Client Id
Matrix

Units

Semivolatiles By SW 8270

			BC72877 9/21/12 MW-101 Groundwater		BC73378 9/24/12 MW-102 Groundwater		BC72879 9/21/12 MW-103 Groundwater		BC72878 9/21/12 MW-104 Groundwater	
			Result	RL	Result	RL	Result	RL	Result	RL
	TAGM-GW	TOGS-WQ/GA								
1,1-Biphenyl	ug/L	5	ND	5	ND	5	ND	5	ND	5
1,2,4,5-Tetrachlorobenzene	ug/L		ND	5	ND	5	ND	5	ND	5
2,3,4,6-tetrachlorophenol	ug/L	1	ND	5	ND	5	ND	5	ND	5
2,4,5-Trichlorophenol	ug/L	1	ND	10	ND	10	ND	10	ND	10
2,4,6-Trichlorophenol	ug/L	1	ND	5	ND	5	ND	5	ND	5
2,4-Dichlorophenol	ug/L	5	ND	5	ND	5	ND	5	ND	5
2,4-Dimethylphenol	ug/L	1	ND	5	ND	5	ND	5	ND	5
2,4-Dinitrophenol	ug/L	5	ND	10	ND	10	ND	10	ND	10
2,4-Dinitrotoluene	ug/L	5	ND	5	ND	5	ND	5	ND	5
2,6-Dinitrotoluene	ug/L	5	ND	5	ND	5	ND	5	ND	5
2-Chloronaphthalene	ug/L	10	ND	5	ND	5	ND	5	ND	5
2-Chlorophenol	ug/L	1	ND	5	ND	5	ND	5	ND	5
2-Methylnaphthalene	ug/L	50	ND	5	ND	5	ND	5	ND	5
2-Methylphenol (o-cresol)	ug/L	5	ND	5	ND	5	ND	5	ND	5
2-Nitroaniline	ug/L	5	ND	10	ND	10	ND	10	ND	10
2-Nitrophenol	ug/L	5	ND	5	ND	5	ND	5	ND	5
3&4-Methylphenol (m&p-cresol)	ug/L		ND	5	ND	5	ND	5	ND	5
3,3'-Dichlorobenzidine	ug/L	5	ND	5	ND	5	ND	5	ND	5
3-Nitroaniline	ug/L	5	ND	10	ND	10	ND	10	ND	10
4,6-Dinitro-2-methylphenol	ug/L	1	ND	10	ND	10	ND	10	ND	10
4-Bromophenyl phenyl ether	ug/L		ND	5	ND	5	ND	5	ND	5
4-Chloro-3-methylphenol	ug/L	1	ND	5	ND	5	ND	5	ND	5
4-Chloroaniline	ug/L	5	ND	5	ND	5	ND	5	ND	5
4-Chlorophenyl phenyl ether	ug/L		ND	5	ND	5	ND	5	ND	5
4-Nitroaniline	ug/L	5	ND	10	ND	10	ND	10	ND	10
4-Nitrophenol	ug/L	5	ND	5	ND	5	ND	5	ND	5
Acenaphthene	ug/L	20	ND	5	ND	5	ND	5	ND	5
Acenaphthylene	ug/L	20	ND	5	ND	5	ND	5	ND	5
Acetophenone	ug/L		ND	5	ND	5	ND	5	ND	5
Anthracene	ug/L	50	ND	5	ND	5	ND	5	ND	5
Atrazine	ug/L	7.5	ND	5	ND	5	ND	5	ND	5
Benz(a)anthracene	ug/L	0.002	ND	5	ND	5	ND	5	ND	5
Benzaldehyde	ug/L		ND	5	ND	5	ND	5	ND	5
Benzo(a)pyrene	ug/L	0.002	ND	5	ND	5	ND	5	ND	5
Benzo(b)fluoranthene	ug/L	0.002	ND	5	ND	5	ND	5	ND	5
Benzo(ghi)perylene	ug/L	5	ND	5	ND	5	ND	5	ND	5
Benzo(k)fluoranthene	ug/L	0.002	ND	5	ND	5	ND	5	ND	5
Benzyl butyl phthalate	ug/L	50	ND	5	ND	5	ND	5	ND	5
Bis(2-chloroethoxy)methane	ug/L	5	ND	5	ND	5	ND	5	ND	5
Bis(2-chloroethyl)ether	ug/L	1	ND	5	ND	5	ND	5	ND	5
Bis(2-chloroisopropyl)ether	ug/L		ND	5	ND	5	ND	5	ND	5
Bis(2-ethylhexyl)phthalate	ug/L	50	ND	5	ND	5	ND	5	ND	5
Caprolactam	ug/L		ND	5	ND	5	ND	5	ND	5
Carbazole	ug/L		ND	5	ND	5	ND	5	ND	5
Chrysene	ug/L	0.002	ND	5	ND	5	ND	5	ND	5
Dibenz(a,h)anthracene	ug/L	50	ND	5	ND	5	ND	5	ND	5
Dibenzofuran	ug/L	5	ND	5	ND	5	ND	5	ND	5
Diethyl phthalate	ug/L	50	ND	5	ND	5	ND	5	ND	5
Dimethylphthalate	ug/L	50	ND	5	ND	5	ND	5	ND	5
Di-n-butylphthalate	ug/L	50	ND	5	ND	5	ND	5	ND	5
Di-n-octylphthalate	ug/L	50	ND	5	ND	5	ND	5	ND	5
Fluoranthene	ug/L	50	ND	5	ND	5	ND	5	ND	5
Fluorene	ug/L	50	ND	5	ND	5	ND	5	ND	5
Hexachlorobenzene	ug/L	0.35	ND	5	ND	5	ND	5	ND	5
Hexachlorobutadiene	ug/L	0.04	ND	5	ND	5	ND	5	ND	5
Hexachlorocyclopentadiene	ug/L	5	ND	5	ND	5	ND	5	ND	5
Hexachloroethane	ug/L	5	ND	5	ND	5	ND	5	ND	5
Indeno(1,2,3-cd)pyrene	ug/L	0.002	ND	5	ND	5	ND	5	ND	5
Isophorone	ug/L	50	ND	5	ND	5	ND	5	ND	5
Naphthalene	ug/L	10	ND	5	ND	5	ND	5	ND	5
Nitrobenzene	ug/L	5	ND	5	ND	5	ND	5	ND	5
N-Nitrosodimethylamine	ug/L		ND	5	ND	5	ND	5	ND	5
N-Nitrosodi-n-propylamine	ug/L		ND	5	ND	5	ND	5	ND	5
N-Nitrosodiphenylamine	ug/L	50	ND	5	ND	5	ND	5	ND	5
Pentachlorophenol	ug/L	1	ND	10	ND	10	ND	10	ND	10
Phenanthrene	ug/L	50	ND	5	ND	5	ND	5	ND	5
Phenol	ug/L	1	ND	5	ND	5	ND	5	ND	5
Pyrene	ug/L	50	ND	5	ND	5	ND	5	ND	5

RL Exceeds Criteria

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Lab Sample Id

BC72877
BC72878

BC72879
BC72880

Sample Comments

No Comments

Thallium comment:

The analytical spike for this sample was outside of acceptance criteria, multiple analyses verified matrix interference. Due to the matrix interference, an elevated RL is reported.

No Comments

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Table 3 - Groundwater Metals Analysis
Huxley Envelope Site

Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Lab Sample Id
Collection Date
Client Id
Matrix

Project Id : 145 WEST ST.

		TOGS-WQ/GA	Class GA Standards	BC72877 9/21/12 MW-101 Groundwater RL		BC73378 9/24/12 MW-102 Groundwater Result RL		BC72879 9/21/12 MW-103 Groundwater Result RL		BC72878 9/21/12 MW-104 Groundwater Result RL	
Units											
Metals, Total											
Aluminum	mg/L	0.1	NS	2.02	0.01	0.417	0.01	0.055	0.01	0.01	0.01
Antimony	mg/L	0.003	0.003	BRL	0.003	BRL	0.005	BRL	0.003	BRL	0.003
Arsenic	mg/L	0.025	0.025	BRL	0.004	0.012	0.004	BRL	0.004	BRL	0.004
Barium	mg/L	1	1	0.293	0.002	0.307	0.002	0.082	0.002	0.417	0.002
Beryllium	mg/L	0.003	0.003	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Cadmium	mg/L	0.005	0.005	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Calcium	mg/L		NS	127	0.01	39.5	0.01	319	0.1	163	0.1
Chromium	mg/L	0.05	0.05	0.004	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Cobalt	mg/L		NS	0.003	0.002	BRL	0.002	BRL	0.002	BRL	0.002
Copper	mg/L	0.2	0.2	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005
Iron	mg/L	0.3	0.3	7.49	0.01	10.4	0.01	0.132	0.01	1.31	0.01
Lead	mg/L	0.025	0.025	0.004	0.002	0.002	0.002	0.278	0.002	BRL	0.002
Magnesium	mg/L	35	35	22.5	0.01	16.1	0.01	834	0.1	291	0.1
Manganese	mg/L	0.3	0.5	5.12	0.01	0.241	0.001	0.024	0.001	0.457	0.001
Mercury	mg/L	0.0007	0.0007	BRL	0.0002	BRL	0.0002	BRL	0.0002	BRL	0.0002
Nickel	mg/L	0.1	0.1	0.006	0.001	BRL	0.001	0.003	0.001	BRL	0.001
Potassium	mg/L		NS	29.7	0.1	23.9	0.1	300	100	157	1
Selenium	mg/L	0.01	0.01	BRL	0.01	BRL	0.01	BRL	0.01	BRL	0.01
Silver	mg/L	0.05	0.05	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Sodium	mg/L	20	20	158	1	130	1	7,740	100	2,210	10
Thallium	mg/L	0.0005	0.0005	BRL	0.0005	BRL	0.002	BRL	0.0005	BRL	0.002
Vanadium	mg/L		NS	0.009	0.002	BRL	0.002	BRL	0.002	BRL	0.002
Zinc	mg/L	5	2	0.013	0.002	0.004	0.002	0.106	0.002	BRL	0.002

BRL=Below Reporting Level

Result Detected:

Result Exceeds Criteria:

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Lab Sample Id

BC72877
BC72878

BC72879
BC72880

Sample Comments

No Comments

Thallium comment:

The analytical spike for this sample was outside of acceptance criteria, multiple analyses verified matrix interference. Due to the matrix interference, an elevated RL is reported.

No Comments

TRIP BLANK INCLUDED

Table 4 - Soil Samples - Volatile Organics Analysis
Huxley Envelope Site

Phoenix Environmental
Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040

Project Id : 145 WEST

		375	375 REST															
		UNREST.	RESIDENT															
Volatiles By SW8260	Units	SCO	SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
1,1,1,2-Tetrachloroethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
1,1,1-Trichloroethane	ug/Kg	680	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,1,2,2-Tetrachloroethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,1,2-Trichloroethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,1-Dichloroethane	ug/Kg	270	26,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,1-Dichloroethene	ug/Kg	330	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,2-Dichloropropene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
1,2,3-Trichlorobenzene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,2,3-Trichloropropane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
1,2,4-Trichlorobenzene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,2,4-Trimethylbenzene	ug/Kg	3,600	52,000	330	U	ND	310	U	ND	0.85	J	370	U	5.7	U	7.7	U	
1,2-Dibromo-3-chloropropane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,2-Dibromoethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,2-Dichlorobenzene	ug/Kg	1,100	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,2-Dichloroethane	ug/Kg	20	3,100	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,2-Dichloropropane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,3,5-Trimethylbenzene	ug/Kg	8,400	52,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
1,3-Dichlorobenzene	ug/Kg	2,400	49,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
1,3-Dichloropropane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
1,4-Dichlorobenzene	ug/Kg	1,800	13,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
2,2-Dichloropropane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
2-Chlorotoluene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
2-Hexanone	ug/Kg			1700	U	ND	1500	U	ND	27	U	1900	U	28	U	38	U	ND
2-Isopropyltoluene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
4-Chlorotoluene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
4-Methyl-2-pentanone	ug/Kg			1700	U	ND	1500	U	ND	27	U	1900	U	28	U	38	U	ND
Acetone	ug/Kg	50	100,000	1700	U	ND	1500	U	ND	5.6	JS	1900	U	57	U	23	JS	ND
Acrylonitrile	ug/Kg			670	U	ND	620	U	ND	11	U	750	U	11	U	15	U	
Benzene	ug/Kg	60	4,800	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Bromobenzene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
Bromochloromethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Bromodichloromethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Bromoform	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Bromomethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Carbon Disulfide	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	1.6	J	ND
Carbon tetrachloride	ug/Kg	760	2,400	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Chlorobenzene	ug/Kg	1,100	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Chloroethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Chloroform	ug/Kg	370	49,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Chloromethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
cis-1,2-Dichloroethene	ug/Kg	250	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
cis-1,3-Dichloropropene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Cyclohexane	ug/Kg																	ND
Dibromochloromethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Dibromomethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
Dichlorodifluoromethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Ethylbenzene	ug/Kg	1,000	30,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Hexachlorobutadiene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Isopropylbenzene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
m&p-Xylene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Methyl Ethyl Ketone	ug/Kg	120	100,000	2000	U	ND	1900	U	ND	32	U	2200	U	34	U	46	U	ND
Methyl t-butyl ether (MTBE)	ug/Kg	930	100,000	670	U	ND	620	U	ND	11	U	750	U	11	U	15	U	ND
Methylacetate	ug/Kg																	ND
Methylcyclohexane	ug/Kg																	ND
Methylene chloride	ug/Kg	50	100,000	75	JS	ND	84	JS	ND	6.5	S	96	JS	5	JS	3	JS	ND
Naphthalene	ug/Kg	12,000	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
n-Butylbenzene	ug/Kg	12,000	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
n-Propylbenzene	ug/Kg	3,900	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
o-Xylene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
p-Isopropyltoluene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
sec-Butylbenzene	ug/Kg	11,000	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
Styrene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
tert-Butylbenzene	ug/Kg	5,900	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	
Tetrachloroethene	ug/Kg	1,300	19,000	160	J	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Tetrahydrofuran (THF)	ug/Kg			670	U	ND	620	U	ND	11	U	750	U	11	U	15	U	
Toluene	ug/Kg	700	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Total Xylene	ug/Kg																	ND
trans-1,2-Dichloroethene	ug/Kg	190	100,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
trans-1,3-Dichloropropene	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
trans-1,4-dichloro-2-butene	ug/Kg			670	U	ND	620	U	ND	11	U	750	U	11	U	15	U	
Trichloroethene	ug/Kg	470	21,000	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Trichlorofluoromethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Trichlorotrifluoroethane	ug/Kg			330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND
Vinyl chloride	ug/Kg	20	900	330	U	ND	310	U	ND	5.3	U	370	U	5.7	U	7.7	U	ND

U = The compound was analyzed for but not detected at or above the MDL.
J = The value is estimated.

RL Exceeds Criteria:

Table 4 - Soil Samples - Volatile Organics Analysis
Huxley Envelope Site

Phoenix Environmental
Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040

Lab Id
Date
Client Id
Depth

Project Id : 145 WEST

Volatiles By SW8260	Units	375	375 REST	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
		UNREST.	SCO																				
1,1,1,2-Tetrachloroethane	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
1,1,1-Trichloroethane	ug/Kg	680	100,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,1,2,2-Tetrachloroethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,1,2-Trichloroethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,1-Dichloroethane	ug/Kg	270	26,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,1-Dichloroethene	ug/Kg	330	100,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
1,1-Dichloropropene	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
1,2,3-Trichlorobenzene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,2,3-Trichloropropane	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
1,2,4-Trichlorobenzene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,2,4-Trimethylbenzene	ug/Kg	3,600	52,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
1,2-Dibromo-3-chloropropane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,2-Dibromoethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,2-Dichlorobenzene	ug/Kg	1,100	100,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,2-Dichloroethane	ug/Kg	20	3,100	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,2-Dichloropropane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,3,5-Trimethylbenzene	ug/Kg	8,400	52,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
1,3-Dichlorobenzene	ug/Kg	2,400	49,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
1,3-Dichloropropane	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
1,4-Dichlorobenzene	ug/Kg	1,800	13,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
2,2-Dichloropropane	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
2-Chlorotoluene	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
2-Hexanone	ug/Kg			31	U	36	U	ND	ND	40	U	33	U	ND	ND	30	U	33	U	1700	U		
2-Isopropyltoluene	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
4-Chlorotoluene	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
4-Methyl-2-pentanone	ug/Kg			31	U	36	U	ND	ND	40	U	33	U	ND	ND	30	U	33	U	1700	U		
Acetone	ug/Kg	50	100,000	8.7	JS	61	JS	ND	ND	81	U	16	JS	ND	ND	9.3	JS	66	U	1700	U		
Acrylonitrile	ug/Kg			12	U	14	U			16	U	13	U			12	U	13	U	670	U		
Benzene	ug/Kg	60	4,800	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Bromobenzene	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
Bromochloromethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Bromodichloromethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Bromoform	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Bromomethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Carbon Disulfide	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	1.2	J	ND	ND	6.0	U	6.6	U	330	U		
Carbon tetrachloride	ug/Kg	760	2,400	6.2	U	7.1	U	7.6	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Chlorobenzene	ug/Kg	1,100	100,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Chloroethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Chloroform	ug/Kg	370	49,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Chloromethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
cis-1,2-Dichloroethene	ug/Kg	250	100,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
cis-1,3-Dichloropropene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Cyclohexane	ug/Kg							ND	ND					ND	ND								
Dibromochloromethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Dibromomethane	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
Dichlorodifluoromethane	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Ethylbenzene	ug/Kg	1,000	30,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Hexachlorobutadiene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Isopropylbenzene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
m&p-Xylene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Methyl Ethyl Ketone	ug/Kg	120	100,000	37	U	43	U	ND	ND	48	U	39	U	ND	ND	36	U	39	U	2000	U		
Methyl t-butyl ether (MTBE)	ug/Kg	930	100,000	12	U	14	U	ND	ND	16	U	13	U	ND	ND	12	U	13	U	670	U		
Methylacetate	ug/Kg							ND	ND					ND	ND								
Methylcyclohexane	ug/Kg							ND	ND					ND	ND								
Methylene chloride	ug/Kg	50	100,000	4.4	JS	72	S	ND	ND	69	JS	2.4	JS	ND	ND	3.8	JS	5	JS	71	JS		
Naphthalene	ug/Kg	12,000	100,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
n-Butylbenzene	ug/Kg	12,000	100,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
n-Propylbenzene	ug/Kg	3,900	100,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
o-Xylene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
p-Isopropyltoluene	ug/Kg			6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
sec-Butylbenzene	ug/Kg	11,000	100,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
Styrene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
tert-Butylbenzene	ug/Kg	5,900	100,000	6.2	U	7.1	U			8.1	U	6.6	U			6.0	U	6.6	U	330	U		
Tetrachloroethene	ug/Kg	1,300	19,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Tetrahydrofuran (THF)	ug/Kg			12	U	14	U			16	U	13	U			12	U	13	U	670	U		
Toluene	ug/Kg	700	100,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
Total Xylene	ug/Kg		100,000					ND	ND					ND	ND								
trans-1,2-Dichloroethene	ug/Kg	190	100,000	6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
trans-1,3-Dichloropropene	ug/Kg			6.2	U	7.1	U	ND	ND	8.1	U	6.6	U	ND	ND	6.0	U	6.6	U	330	U		
trans-1,4-dichloro-2-butene	ug/Kg			12	U	14	U			16	U	13	U			12	U	13	U	670	U		

Table 4 - Soil Samples - Volatile Organics Analysis
Huxley Envelope Site

Phoenix Environmental
Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040

Lab Id
Date
Client Id
Depth

BB96194
6/7/12
WS-F2
Solid

BB96196
6/7/12
WS-F3
Solid

BB96197
6/7/12
WS-F4
Solid

BB91713
5/30/12
WS F5
Solid

BB93972
6/1/12
WS G 1
0-15 ft

BB97041
6/11/12
WS G2
Soil

BB93978
6/1/12
WS-G4
3-15 ft

BB91714
5/30/12
WS G5
Solid

BB93971
6/1/12
WS H 1
0-15 ft

BB97039
6/11/12
WS H2

Project Id : 145 WEST

Volatiles By SW8260	Units	375 UNREST.		375 REST RESIDENT		Result	Result	Result	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
		SCO	SCO	SCO	SCO															
1,1,1,2-Tetrachloroethane	ug/Kg								6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,1,1-Trichloroethane	ug/Kg	680	100,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,1,2,2-Tetrachloroethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,1,2-Trichloroethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,1-Dichloroethane	ug/Kg	270	26,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,1-Dichloroethene	ug/Kg	330	100,000						6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
1,1-Dichloropropene	ug/Kg								6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
1,2,3-Trichlorobenzene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,2,3-Trichloropropane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,2,4-Trichlorobenzene	ug/Kg	3,600	52,000						6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
1,2,4-Trimethylbenzene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,2-Dibromo-3-chloropropane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,2-Dibromoethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,2-Dichlorobenzene	ug/Kg	1,100	100,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,2-Dichloroethane	ug/Kg	20	3,100	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,2-Dichloropropane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,3,5-Trimethylbenzene	ug/Kg	8,400	52,000						6.5	U	5.9	U			1.6	J	6.2	U	5.8	U
1,3-Dichlorobenzene	ug/Kg	2,400	49,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
1,3-Dichloropropane	ug/Kg								6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
1,4-Dichlorobenzene	ug/Kg	1,800	13,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
2,2-Dichloropropane	ug/Kg								6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
2-Chlorotoluene	ug/Kg								6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
2-Hexanone	ug/Kg			ND	ND	ND	ND	ND	32	U	29	U	6.3	U	36	U	31	U	29	U
2-Isopropyltoluene	ug/Kg								6.5	U	5.9	U			3.2	J	6.2	U	5.8	U
4-Chlorotoluene	ug/Kg								6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
4-Methyl-2-pentanone	ug/Kg			ND	ND	ND	ND	ND	32	U	29	U	32	U	36	U	31	U	29	U
Acetone	ug/Kg	50	100,000	ND	ND	ND	ND	ND	65	U	23	JS	32	U	80	S	62	U	50	U
Acrylonitrile	ug/Kg								13	U	12	U			14	U	12	U	12	U
Benzene	ug/Kg	60	4,800	ND	ND	ND	ND	ND	6.5	U	5.9	U	310	E	7.2	U	6.2	U	5.8	U
Bromobenzene	ug/Kg								6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
Bromochloromethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Bromodichloromethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Bromoform	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Bromomethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Carbon Disulfide	ug/Kg			ND	ND	ND	ND	ND	6.5	U	2.8	J	6.3	U	3.4	J	6.2	U	5.8	U
Carbon tetrachloride	ug/Kg	760	2,400	ND	ND	ND	ND	ND	6.5	U	5.9	U	3.7	J	7.2	U	6.2	U	5.8	U
Chlorobenzene	ug/Kg	1,100	100,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Chloroethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Chloroform	ug/Kg	370	49,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Chloromethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
cis-1,2-Dichloroethene	ug/Kg	250	100,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
cis-1,3-Dichloropropene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Cyclohexane	ug/Kg			ND	ND	ND	ND	ND					6.3	U			6.2	U	5.8	U
Dibromochloromethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Dibromomethane	ug/Kg								6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
Dichlorodifluoromethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Ethylbenzene	ug/Kg	1,000	30,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Hexachlorobutadiene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Isopropylbenzene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	2.8	J	7.2	U	6.2	U	5.8	U
m&p-Xylene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	3.6	J	6.2	U	5.8	U
Methyl Ethyl Ketone	ug/Kg	120	100,000	ND	ND	ND	ND	ND	39	U	35	U	35	J	43	U	37	U	35	U
Methyl t-butyl ether (MTBE)	ug/Kg	930	100,000	ND	ND	ND	ND	ND	13	U	12	U	13	U	14	U	12	U	12	U
Methylacetate	ug/Kg			ND	ND	ND	ND	ND					6.3	U					5.9	U
Methylcyclohexane	ug/Kg			ND	ND	680							6.3	U					5.9	U
Methylene chloride	ug/Kg	50	100,000	ND	ND	ND			5.1	JS	3.5	JS	9.4	S	3.1	JS	5.1	JS	2.5	JS
Naphthalene	ug/Kg	12,000	100,000						6.5	U	1.6	J			5.7	J	6.2	U	5.8	U
n-Butylbenzene	ug/Kg	12,000	100,000						6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
n-Propylbenzene	ug/Kg	3,900	100,000						6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
o-Xylene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
p-Isopropyltoluene	ug/Kg								6.5	U	1.6	J			1.3	J	6.2	U	5.8	U
sec-Butylbenzene	ug/Kg	11,000	100,000						6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
Styrene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
tert-Butylbenzene	ug/Kg	5,900	100,000						6.5	U	5.9	U			7.2	U	6.2	U	5.8	U
Tetrachloroethene	ug/Kg	1,300	19,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Tetrahydrofuran (THF)	ug/Kg								13	U	12	U			14	U	12	U	12	U
Toluene	ug/Kg	700	100,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Total Xylene			100,000	ND	ND	ND	ND	ND					6.3	U					5.9	U
trans-1,2-Dichloroethene	ug/Kg	190	100,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
trans-1,3-Dichloropropene	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
trans-1,4-dichloro-2-butene	ug/Kg								13	U	12	U			14	U	12	U	12	U
Trichloroethene	ug/Kg	470	21,000	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Trichlorofluoromethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Trichlorotrifluoroethane	ug/Kg			ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U
Vinyl chloride	ug/Kg	20	900	ND	ND	ND	ND	ND	6.5	U	5.9	U	6.3	U	7.2	U	6.2	U	5.8	U

U = The compound was analyzed for but not detected at or above the MDL.
J = The value is estimated.

RL Exceeds Criteria:

Table 4 - Soil Samples - Volatile Organics Analysis
Huxley Envelope Site

Phoenix Environmental
Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040

Lab. Id
Date
Client Id
Depth

BB97042
6/11/12
WS-J4

BB92295
5/30/12
WS-J5

BB92737
5/31/12
WS-K1

BB92736
5/31/12
WS-K2

BB92735
5/31/12
WS-K3

BB92734
5/31/12
WS-K4

BB92733
5/31/12
WS-K5

BB96188
6/7/12
WS-S-1

BB96189
6/7/12
WS-S-2

BB96190
6/7/12
WS-S-4

Project Id : 145 WEST

Volatiles By SW8260	Units	375	375 REST	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
		UNREST. SCO	RESIDENT SCO																		
1,1,1,2-Tetrachloroethane	ug/Kg			6.0	U	6.1	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
1,1,1-Trichloroethane	ug/Kg	680	100,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,1-Dichloroethane	ug/Kg	270	26,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,1-Dichloroethene	ug/Kg	330	100,000			6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
1,1-Dichloropropene	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
1,2,3-Trichlorobenzene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,2,3-Trichloropropane	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
1,2,4-Trichlorobenzene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/Kg	3,600	52,000			6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	2.4	J				
1,2-Dibromo-3-chloropropane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,2-Dibromomethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/Kg	1,100	100,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,2-Dichloroethane	ug/Kg	20	3,100	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,2-Dichloropropane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/Kg	8,400	52,000			6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
1,3-Dichlorobenzene	ug/Kg	2,400	49,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
1,3-Dichloropropane	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
1,4-Dichlorobenzene	ug/Kg	1,800	13,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
2,2-Dichloropropane	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
2-Chlorotoluene	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
2-Hexanone	ug/Kg			6.1	U	30	U	30	U	30	U	31	U	30	U	30	U	ND	ND	ND	ND
2-Isopropyltoluene	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
4-Chlorotoluene	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
4-Methyl-2-pentanone	ug/Kg			30	U	30	U	30	U	30	U	31	U	30	U	30	U	ND	ND	ND	ND
Acetone	ug/Kg	50	100,000	30	U	8.3	JS	61	U	6.1	JS	63	U	6.4	JS	60	U	ND	ND	ND	ND
Acrylonitrile	ug/Kg					12	U	12	U	12	U	13	U	12	U	12	U				
Benzene	ug/Kg	60	4,800	61	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Bromobenzene	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
Bromochloromethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Bromodichloromethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Bromoform	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Bromomethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Carbon Disulfide	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	1.2	J	6.0	U	ND	ND	ND	ND
Carbon tetrachloride	ug/Kg	760	2,400	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Chlorobenzene	ug/Kg	1,100	100,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Chloroethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Chloroform	ug/Kg	370	49,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Chloromethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/Kg	250	100,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Cyclohexane	ug/Kg			6.1	U													ND	ND	ND	ND
Dibromochloromethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Dibromomethane	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
Dichlorodifluoromethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Ethylbenzene	ug/Kg	1,000	30,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Hexachlorobutadiene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Isopropylbenzene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
m&p-Xylene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Methyl Ethyl Ketone	ug/Kg	120	100,000	37	U	36	U	37	U	37	U	38	U	36	U	36	U	ND	ND	ND	ND
Methyl t-butyl ether (MTBE)	ug/Kg	930	100,000	12	U	12	U	12	U	12	U	13	U	12	U	12	U	ND	ND	ND	ND
Methylacetate	ug/Kg			6.1	U													ND	ND	ND	ND
Methylcyclohexane	ug/Kg			6.1	U													ND	ND	ND	ND
Methylene chloride	ug/Kg	50	100,000	7.2	S	1.7	JS	2.3	JS	2	JS	2.9	JS	1.9	JS	2.1	JS	ND	ND	ND	ND
Naphthalene	ug/Kg	12,000	100,000			6.0	U	6.1	U	6.1	U	1.8	J	6.0	U	7.1	J				
n-Butylbenzene	ug/Kg	12,000	100,000			6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	1.5	J				
n-Propylbenzene	ug/Kg	3,900	100,000			6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	1.8	J				
o-Xylene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
p-Isopropyltoluene	ug/Kg					6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
sec-Butylbenzene	ug/Kg	11,000	100,000			6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
Styrene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
tert-Butylbenzene	ug/Kg	5,900	100,000			6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U				
Tetrachloroethene	ug/Kg	1,300	19,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	11		6.0	U	ND	ND	ND	ND
Tetrahydrofuran (THF)	ug/Kg					12	U	12	U	12	U	13	U	12	U	12	U				
Toluene	ug/Kg	700	100,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
Total Xylene			100,000	6.1	U													ND	ND	ND	ND
trans-1,2-Dichloroethene	ug/Kg	190	100,000	6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/Kg			6.1	U	6.0	U	6.1	U	6.1	U	6.3	U	6.0	U	6.0	U	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	ug/Kg					12	U	12	U	13	U	12	U	12	U	12	U				
Trichloroethene	ug/Kg	470	21,000	6.1	U	6.0	U	6.1	U	6.3	U	2.3	J	6.0	U	6.0	U	ND	ND	ND	ND
Trichlorofluoromethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.3	U	6.0	U	6.0	U	6.0	U	ND	ND	ND	ND
Trichlorotrifluoroethane	ug/Kg			6.1	U	6.0	U	6.1	U	6.3	U	6.0	U	6.0	U	6.0	U	ND	ND	ND	ND
Vinyl chloride	ug/Kg	20	900	6.1	U	6.0	U	6.1	U	6.3	U	6.0	U	6.0	U	6.0	U	ND	ND	ND	ND

Table 5 - Soil Samples - Semi Volatile Organics Analysis

Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 Project Id : 145 WEST	Lab Id Date Client Id Depth			BB93966 6/4/12 WS A1 0-15 ft		BB95364 6/6/12 WS A2 0-20 ft	BB93965 6/4/12 WS B1 0-15 ft	BB95365 6/6/12 WS B2 0-20 ft	BB88919 5/21/12 WS B3	BB93964 6/4/12 WS C-1 0-15 ft	BB91708 5/25/12 WS-C2	BB93974 6/1/12 WSC3 Test Pit		BB96203 6/7/12 WS-C3A		
			375 UNREST.	375 RESTRICTED RESIDENTAL												
Semivolatiles By SW 8270	Units				Result	Qual	Result	Result	Result	Result	Result	Qual	Result	Qual	Result	
1,1-Biphenyl	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
1,2,4,5-Tetrachlorobenzene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
1,2,4-Trichlorobenzene	ug/Kg	1,100	100,000		310	U	ND	280	ND	240	340	260	U	350	U	ND
1,2-Dichlorobenzene	ug/Kg	2,400	100,000		310	U	ND	280	ND	240	340	260	U	350	U	ND
1,3-Dichlorobenzene	ug/Kg	1,800	4,900		310	U	ND	280	ND	240	340	260	U	350	U	ND
1,4-Dichlorobenzene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2,3,4,6-tetrachlorophenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2,4,5-Trichlorophenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2,4,6-Trichlorophenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2,4-Dichlorophenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2,4-Dimethylphenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2,4-Dinitrophenol	ug/Kg				500	U	ND	450	ND	390	550	420	U	560	U	ND
2,4-Dinitrotoluene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2,6-Dinitrotoluene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2-Chloronaphthalene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2-Chlorophenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
2-Methylnaphthalene	ug/Kg				310	U	ND	280	440	240	220	440		350	U	ND
2-Methylphenol (o-cresol)	ug/Kg	330	100,000		310	U	ND	280	ND	240	340	260	U	330	U	ND
2-Nitroaniline	ug/Kg				500	U	ND	450	ND	390	550	420	U	560	U	ND
2-Nitrophenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
3&4-Methylphenol (m&p-cresol)	ug/Kg				310	U	490	880	ND	240	280	260	U	350	U	ND
3,3'-Dichlorobenzidine	ug/Kg				620	U	ND	560	ND	490	680	520	U	700	U	ND
3-Nitroaniline	ug/Kg				500	U	ND	450	ND	390	550	420	U	560	U	ND
4,6-Dinitro-2-methylphenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
4-Bromophenyl phenyl ether	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
4-Chloro-3-methylphenol	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
4-Chloroaniline	ug/Kg				620	U	ND	560	ND	490	680	520	U	700	U	ND
4-Chlorophenyl phenyl ether	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
4-Nitroaniline	ug/Kg				500	U	ND	450	ND	390	550	420	U	560	U	ND
4-Nitrophenol	ug/Kg				900	U	ND	820	ND	710	990	760	U	1000	U	ND
Acenaphthene	ug/Kg	20,000	100,000		310	U	ND	280	760	240	550	320		230	J	ND
Acenaphthylene	ug/Kg	100,000	100,000		310	U	ND	280	ND	240	1,300	730		170	J	ND
Acetophenone	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Aniline	ug/Kg				900	U	ND	820	ND	710	990	760	U	1000	U	ND
Anthracene	ug/Kg	100,000	100,000		310	U	ND	140	1,000	170	5,200	9,900		700		ND
Atrazine	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Azobenzene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Benz(a)anthracene	ug/Kg	1,000	1,000		150	J	660	360	1,900	570	6,000	12,000		2,300		710
Benzaldehyde	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Benzidine	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Benzo(a)pyrene	ug/Kg	1,000	1,000		310	U	650	280	1,800	560	5,500	4,900		2,000		510
Benzo(b)fluoranthene	ug/Kg	1,000	1,000		160	J	790	320	2,000	790	8,200	10,000		2,400		700
Benzo(ghi)perylene	ug/Kg	100,000	100,000		310	U	380	200	840	250	1,900	1,500		850		370
Benzo(k)fluoranthene	ug/Kg	800	3,900		310	U	ND	140	820	230	2,700	3,600		690		ND
Benzoic acid	ug/Kg				900	U	ND	820	ND	710	990	760	U	1000	U	ND
Benzyl butyl phthalate	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Bis(2-chloroethoxy)methane	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Bis(2-chloroethyl)ether	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Bis(2-chloroisopropyl)ether	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Bis(2-ethylhexyl)phthalate	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Carbazole	ug/Kg				900	U	ND	820	ND	710	850	920		410	J	ND
Caprolactam	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Chrysene	ug/Kg	1,000	3,900		310	U	670	320	1,900	550	5,400	17,000		1,800		600
Dibenz(a,h)anthracene	ug/Kg	330	330		310	U	ND	280	ND	240	880	470		250	J	ND
Dibenzofuran	ug/Kg				310	U	ND	280	490	240	1,300	520		150	J	ND
Diethyl phthalate	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Dimethylphthalate	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Di-n-butylphthalate	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	890
Di-n-octylphthalate	ug/Kg				310	U	ND	280	ND	240	150	260	U	350	U	ND
Fluoranthene	ug/Kg	100,000	100,000		260	J	1,500	640	4,000	840	25,000	27,000		4,600		1,600
Fluorene	ug/Kg	30,000	100,000		310	U	ND	280	690	240	1,400	430		230	J	ND
Hexachlorobenzene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Hexachlorobutadiene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Hexachlorocyclopentadiene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Hexachloroethane	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Indeno(1,2,3-cd)pyrene	ug/Kg	500	100,000		310	U	340	160	770	190	2,000	1,500		700		300
Isophorone	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Naphthalene	ug/Kg	12,000	100,000		310	U	ND	280	1,300	240	1,200	1,000		350	U	ND
Nitrobenzene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
N-Nitrosodimethylamine	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
N-Nitrosodi-n-propylamine	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
N-Nitrosodiphenylamine	ug/Kg				900	U	ND	820	ND	710	990	760	U	1000	U	ND
Pentachloronitrobenzene	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND
Pentachlorophenol	ug/Kg	800	6,700		310	U	ND	280	ND	240	340	260	U	350	U	ND
Phenanthrene	ug/Kg	100,000	100,000		230	J	1,200	540	4,100	710	12,000	2,500		3,200		1,300
Phenol	ug/Kg	330	100,000		310	U	ND	280	ND	240	340	260	U	330	U	ND
Pyrene	ug/Kg	100,000	100,000		250	J	1,400	630	3,700	810	21,000	15,000		4,500		1,300
Pyridine	ug/Kg				310	U	ND	280	ND	240	340	260	U	350	U	ND

Result Exceeds Criteria:

Table 5 - Soil Samples - Semi Volatile Organics Analysis

2 of 6

Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 Project Id : 145 WEST		Lab Id Date Client Id Depth	BB91710 5/29/12 WS C 5		BB93963 6/4/12 WS D1 0-15 FT 0-15 ft		BB96199 6/7/12 WS-D3		BB96198 6/7/12 WS-D4		BB91711 5/29/12 WSD 5		BB93962 6/4/12 WS E1 0-15 ft		BB96192 6/7/12 WS-E2		BB93975 6/1/12 WSE3 Test Pit	
			375 UNREST. SCO	375 RESTRICTED RESIDENTAL SCO	Result	Qual	Result	Qual	Result	Result	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Semivolatiles By SW 8270		Units																
1,1-Biphenyl		ug/Kg			280	U	330	U	ND	ND			300	U	ND		270	U
1,2,4,5-Tetrachlorobenzene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
1,2,4-Trichlorobenzene		ug/Kg	1,100	100,000	280	U	330	U			370	U	300	U			270	U
1,2-Dichlorobenzene		ug/Kg	2,400	100,000	280	U	330	U			370	U	300	U			270	U
1,3-Dichlorobenzene		ug/Kg	1,800	4,900	280	U	330	U			370	U	300	U			270	U
1,4-Dichlorobenzene		ug/Kg			280	U	330	U			370	U	300	U			270	U
2,3,4,6-tetrachlorophenol		ug/Kg							ND	ND					ND			
2,4,5-Trichlorophenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2,4,6-Trichlorophenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2,4-Dichlorophenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2,4-Dimethylphenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2,4-Dinitrophenol		ug/Kg			460	U	530	U	ND	ND	590	U	490	U	ND		430	U
2,4-Dinitrotoluene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2,6-Dinitrotoluene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2-Chloronaphthalene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2-Chlorophenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2-Methylnaphthalene		ug/Kg			280	U	330	U	ND	ND	810		300	U	ND		270	U
2-Methylphenol (o-cresol)		ug/Kg	330	100,000	280	U	330	U	ND	ND	370	U	300	U	ND		270	U
2-Nitroaniline		ug/Kg			460	U	530	U	ND	ND	590	U	490	U	ND		430	U
2-Nitrophenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
3&4-Methylphenol (m&p-cresol)		ug/Kg			280	U	330	U	ND	ND	330	J	300	U	ND		270	U
3,3'-Dichlorobenzidine		ug/Kg			570	U	660	U	ND	ND	740	U	610	U	ND		540	U
3-Nitroaniline		ug/Kg			460	U	530	U	ND	ND	590	U	490	U	ND		430	U
4,6-Dinitro-2-methylphenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
4-Bromophenyl phenyl ether		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
4-Chloro-3-methylphenol		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
4-Chloroaniline		ug/Kg			570	U	660	U	ND	ND	740	U	610	U	ND		540	U
4-Chlorophenyl phenyl ether		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
4-Nitroaniline		ug/Kg			460	U	530	U	ND	ND	590	U	490	U	ND		430	U
4-Nitrophenol		ug/Kg			830	U	950	U	ND	ND	1100	U	880	U	ND		790	U
Acenaphthene		ug/Kg	20,000	100,000	280	U	350		ND	420	2,500		140	J	ND		270	U
Acenaphthylene		ug/Kg	100,000	100,000	280	U	160	J	ND	ND	460		300	U	ND		270	U
Acetophenone		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Aniline		ug/Kg			830	U	950	U			1100	U	880	U			790	U
Anthracene		ug/Kg	100,000	100,000	280	U	780		ND	390	6,500		170	J	ND		270	U
Atrazine		ug/Kg							ND	ND					ND			
Azobenzene		ug/Kg			280	U	330	U			370	U	300	U			270	U
Benz(a)anthracene		ug/Kg	1,000	1,000	220	J	1,300		ND	900	14,000		330		ND		270	U
Benzaldehyde		ug/Kg							ND	ND					ND			
Benzidine		ug/Kg			280	U	330	U			370	U	300	U			270	U
Benzo(a)pyrene		ug/Kg	1,000	1,000	260	J	1,400		ND	710	10,000		350		ND		270	U
Benzo(b)fluoranthene		ug/Kg	1,000	1,000	310		1,600		ND	870	12,000		440		ND		270	U
Benzo(ghi)perylene		ug/Kg	100,000	100,000	160	J	720		ND	440	2,200		220	J	ND		270	U
Benzo(k)fluoranthene		ug/Kg	800	3,900	280	U	560		ND	ND	3,400		300	U	ND		270	U
Benzoic acid		ug/Kg			830	U	950	U			1100	U	880	U			790	U
Benzyl butyl phthalate		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Bis(2-chloroethoxy)methane		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Bis(2-chloroethyl)ether		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Bis(2-chloroisopropyl)ether		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Bis(2-ethylhexyl)phthalate		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Carbazole		ug/Kg			830	U	950	U	ND	ND	2,600		880	U	ND		790	U
Caprolactam		ug/Kg							ND	ND					ND			
Chrysene		ug/Kg	1,000	3,900	220	J	1,200		ND	770	11,000		300	J	ND		270	U
Dibenz(a,h)anthracene		ug/Kg	330	330	280	U	290	J	ND	ND	790		300	U	ND		270	U
Dibenzofuran		ug/Kg			280	U	160	J	ND	ND	1,500	U	300	U	ND		270	U
Diethyl phthalate		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Dimethylphthalate		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Di-n-butylphthalate		ug/Kg			280	U	330	U	500	ND	370	U	300	U	ND		270	U
Di-n-octylphthalate		ug/Kg			280	U	330	U	ND	ND	370		300	U	ND		270	U
Fluoranthene		ug/Kg	100,000	100,000	390		3,200		ND	2,200	30,000		690		590		190	J
Fluorene		ug/Kg	30,000	100,000	280	U	350		ND	340	3,300	U	300	U	ND		270	U
Hexachlorobenzene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Hexachlorobutadiene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Hexachlorocyclopentadiene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
Hexachloroethane		ug/Kg			280	U	330	U	ND	ND	370		300	U	ND		270	U
Indeno(1,2,3-cd)pyrene		ug/Kg	500	100,000	280	U	650		ND	370	2,200	U	190	J	ND		270	U
Isophorone		ug/Kg			280	U	330	U	ND	ND	370		300	U	ND		270	U
Naphthalene		ug/Kg	12,000	100,000	250	J	600		ND	ND	2,400	U	290	J	ND		270	U
Nitrobenzene		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
N-Nitrosodimethylamine		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
N-Nitrosodi-n-propylamine		ug/Kg			280	U	330	U	ND	ND	370	U	300	U	ND		270	U
N-Nitrosodiphenylamine		ug/Kg			830	U	950	U	ND	ND	1100	U	880	U	ND		790	U
Pentachloronitrobenzene		ug/Kg			280	U	330	U			370	U	300	U			270	U
Pentachlorophenol		ug/Kg	800	6,700	280	U	330	U	ND	ND	370		300	U	ND		270	U
Phenanthrene		ug/Kg	100,000	100,000	310		2,500		ND	2,200	32,000	J	530		580		140	J
Phenol		ug/Kg	330	100,000	280	U	330	U	ND	ND	220		300	U	ND		270	U
Pyrene		ug/Kg	100,000	100,000	610		2,800		ND	1,900	23,000	U	620		510		180	J
Pyridine		ug/Kg			280	U	330	U			370		300	U			270	U

Result Exceeds Criteria:

Table 5 - Soil Samples - Semi Volatile Organics Analysis

Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 Project Id : 145 WEST		Lab Id Date Client Id Depth	BB91712 5/30/12 WS E-5		BB93961 6/4/12 WS F1 0-15 ft		BB96194 6/7/12 WS-F2 Solid		BB96196 6/7/12 WS-F3 Solid		BB96197 6/7/12 WS-F4		BB91713 5/30/12 WS F5		BB93972 6/1/12 WS G 1 0-15'		BB97041 6/11/12 WS G2	
			375 UNREST. SCO	375 RESTRICTED RESIDENTAL SCO	Result	Qual	Result	Qual	Result	Result	RL	Result	Result	Qual	Result	Qual	Result	Qual
Semivolatiles By SW 8270	Units																	
1,1-Biphenyl	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
1,2,4,5-Tetrachlorobenzene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
1,2,4-Trichlorobenzene	ug/Kg	1,100	100,000		300	U	310	U					300	U	270	U		
1,2-Dichlorobenzene	ug/Kg	2,400	100,000		300	U	310	U					300	U	270	U		
1,3-Dichlorobenzene	ug/Kg	1,800	4,900		300	U	310	U					300	U	270	U		
1,4-Dichlorobenzene	ug/Kg				300	U	310	U					300	U	270	U		
2,3,4,6-tetrachlorophenol	ug/Kg								ND	ND	290	ND					290	U
2,4,5-Trichlorophenol	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
2,4,6-Trichlorophenol	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
2,4-Dichlorophenol	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
2,4-Dimethylphenol	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
2,4-Dinitrophenol	ug/Kg				490	U	500	U	ND	ND	660	ND	480	U	430	U	290	U
2,4-Dinitrotoluene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
2,6-Dinitrotoluene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
2-Chloronaphthalene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
2-Chlorophenol	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
2-Methylnaphthalene	ug/Kg				1,800		200	J	ND	ND	290	ND	300	U	790		170	J
2-Methylphenol (o-cresol)	ug/Kg	330	100,000		300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
2-Nitroaniline	ug/Kg				490	U	500	U	ND	ND	660	ND	480	U	430	U	2000	U
2-Nitrophenol	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
3&4-Methylphenol (m&p-cresol)	ug/Kg				200	J	310	U	ND	ND	410	ND	300	U	200	J	290	U
3,3'-Dichlorobenzidine	ug/Kg				610	U	620	U	ND	ND	490	ND	600	U	540	U	160	U
3-Nitroaniline	ug/Kg				490	U	500	U	ND	ND	660	ND	480	U	430	U	2000	U
4,6-Dinitro-2-methylphenol	ug/Kg				300	U	310	U	ND	ND	1,200	ND	300	U	270	U	290	U
4-Bromophenyl phenyl ether	ug/Kg				300	U	310	U	ND	ND	410	ND	300	U	270	U	290	U
4-Chloro-3-methylphenol	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
4-Chloroaniline	ug/Kg				610	U	620	U	ND	ND	290	ND	600	U	540	U	820	U
4-Chlorophenyl phenyl ether	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
4-Nitroaniline	ug/Kg				490	U	500	U	ND	ND	660	ND	480	U	430	U	2000	U
4-Nitrophenol	ug/Kg				880	U	900	U	ND	ND	1,200	ND	870	U	780	U	2000	U
Acenaphthene	ug/Kg	20,000	100,000		2,600		670		ND	ND	290	1,100	220	J	1,400		680	
Acenaphthylene	ug/Kg	100,000	100,000		480		150	J	ND	ND	290	300	300	U	210	J	160	U
Acetophenone	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Aniline	ug/Kg				880	U	900	U					870	U	780	U		
Anthracene	ug/Kg	100,000	100,000		2,800		2,300		520	ND	290	2,800	490		2,500		1,400	
Atrazine	ug/Kg								ND	ND	290	ND					160	U
Azobenzene	ug/Kg				300	U	310	U					300	U	270	U		
Benz(a)anthracene	ug/Kg	1,000	1,000		3,700		1,500		980	ND	290	6,300	740		2,700		1,600	
Benzaldehyde	ug/Kg								ND	ND	290	ND					290	U
Benzidine	ug/Kg				300	U	310	U					300	U	270	U		
Benzo(a)pyrene	ug/Kg	1,000	1,000		2,700		1,700		610	ND	290	6,200	620		2,200		1,300	
Benzo(b)fluoranthene	ug/Kg	1,000	1,000		3,900		1,700		750	ND	290	8,100	810		2,600		1,500	
Benzo(ghi)perylene	ug/Kg	100,000	100,000		830		700		300	ND	290	2,400	220	J	390		540	
Benzo(k)fluoranthene	ug/Kg	800	3,900		1,900		720		ND	ND	290	1,900	320		910		550	
Benzoic acid	ug/Kg				880	U	900	U					870	U	780	U		
Benzyl butyl phthalate	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Bis(2-chloroethoxy)methane	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Bis(2-chloroethyl)ether	ug/Kg				300	U	310	U	ND	ND	410	ND	300	U	270	U	160	U
Bis(2-chloroisopropyl)ether	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Bis(2-ethylhexyl)phthalate	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Carbazole	ug/Kg				5,200		900	U	ND	ND	290	ND	870	U	690	J	290	U
Caprolactam	ug/Kg								ND	ND	1,200	1,300					370	J
Chrysene	ug/Kg	1,000	3,900		3,400		1,200		700	ND	290	5,400	680		2,500		1,500	
Dibenz(a,h)anthracene	ug/Kg	330	330		300	U	310	U	ND	ND	290	700	300	U	160	J	180	
Dibenzofuran	ug/Kg				3,000		280	J	ND	ND	290	ND	300	U	650		350	
Diethyl phthalate	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Dimethylphthalate	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Di-n-butylphthalate	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Di-n-octylphthalate	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Fluoranthene	ug/Kg	100,000	100,000		13,000		5,100		1,700	ND	290	13,000	1,700		5,600		3,000	
Fluorene	ug/Kg	30,000	100,000		3,600		920		ND	ND	290	1,100	270	J	1,700		710	
Hexachlorobenzene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
Hexachlorobutadiene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Hexachlorocyclopentadiene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Hexachloroethane	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
Indeno(1,2,3-cd)pyrene	ug/Kg	500	100,000		780		650		ND	ND	290	2,200	200	J	400		510	
Isophorone	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
Naphthalene	ug/Kg	12,000	100,000		12,000		520		ND	ND	290	490	300	U	610		150	J
Nitrobenzene	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
N-Nitrosodimethylamine	ug/Kg				300	U	310	U	ND	ND	410	ND	300	U	270	U	290	U
N-Nitrosodi-n-propylamine	ug/Kg				300	U	310	U	ND	ND	290	ND	300	U	270	U	160	U
N-Nitrosodiphenylamine	ug/Kg				880	U	900	U	ND	ND	410	ND	870	U	780	U	160	U
Pentachloronitrobenzene	ug/Kg				300	U	310	U					300	U	270	U		
Pentachlorophenol	ug/Kg	800	6,700		300	U	310	U	ND	ND	410	ND	300	U	270	U	290	U
Phenanthrene	ug/Kg	100,000	100,000		21,000		7,800	D	1,800	ND	290	10,000	1,600		10,000		4,300	
Phenol	ug/Kg	330	100,000		300	U	310	U	ND	ND	290	ND	300	U	270	U	290	U
Pyrene	ug/Kg	100,000	100,000		11,000		4,400		1,700	ND	290	12,000	1,400		5,900		2,800	
Pyridine	ug/Kg				300	U	310	U					300	U	270	U		

Table 5 - Soil Samples - Semi Volatile Organics Analysis

Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 Project Id : 145 WEST	Lab Id Date Client Id Depth			BB93978 6/1/12 WS-G4 3-15 ft		BB91714 5/30/12 WS G5		BB93971 6/1/12 WS H 0-15 ft		BB97039 6/11/12 WS H2		BB88918 5/21/12 WS H3		BB93977 6/1/12 WS H4 3-15 ft		BB92293 5/30/12 WS H 5	
		375 UNREST. SCO	375 RESTRICTED RESIDENTIAL SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Semivolatiles By SW 8270	Units																
1,1-Biphenyl	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
1,2,4,5-Tetrachlorobenzene	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
1,2,4-Trichlorobenzene	ug/Kg	1,100	100,000	330	U	280	U	260	U	270	U	290	U	310	U	290	U
1,2-Dichlorobenzene	ug/Kg	2,400	100,000	330	U	280	U	260	U	270	U	290	U	310	U	290	U
1,3-Dichlorobenzene	ug/Kg	1,800	4,900	330	U	280	U	260	U	270	U	290	U	310	U	290	U
1,4-Dichlorobenzene	ug/Kg					280	U	260	U			290	U	310	U	290	
2,3,4,6-tetrachlorophenol	ug/Kg			330	U					270	U						
2,4,5-Trichlorophenol	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
2,4,6-Trichlorophenol	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
2,4-Dichlorophenol	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
2,4-Dimethylphenol	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
2,4-Dinitrophenol	ug/Kg			540	U	450	U	420	U	270	U	470	U	490	U	470	U
2,4-Dinitrotoluene	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
2,6-Dinitrotoluene	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
2-Chloronaphthalene	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
2-Chlorophenol	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
2-Methylnaphthalene	ug/Kg			330	U	280	U	260	U	270	U	200	J	310	U	1,000	U
2-Methylphenol (o-cresol)	ug/Kg	330	100,000	330	U	280	U	260	U	270	U	290	U	310	U	290	U
2-Nitroaniline	ug/Kg			540	U	450	U	420	U	1900	U	470	U	490	U	470	U
2-Nitrophenol	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
3&4-Methylphenol (m&p-cresol)	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
3,3'-Dichlorobenzidine	ug/Kg			670	U	560	U	530	U	150	U	580	U	610	U	590	U
3-Nitroaniline	ug/Kg			540	U	450	U	420	U	1900	U	470	U	490	U	470	U
4,6-Dinitro-2-methylphenol	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
4-Bromophenyl phenyl ether	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
4-Chloro-3-methylphenol	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
4-Chloroaniline	ug/Kg			670	U	560	U	530	U	760	U	580	U	610	U	590	U
4-Chlorophenyl phenyl ether	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
4-Nitroaniline	ug/Kg			540	U	450	U	420	U	1900	U	470	U	490	U	470	U
4-Nitrophenol	ug/Kg			980	U	810	U	770	U	1900	U	840	U	890	U	850	U
Acenaphthene	ug/Kg	20,000	100,000	330	U	300	U	260	U	270	U	450	U	310	U	5,700	U
Acenaphthylene	ug/Kg	100,000	100,000	330	U	290	U	260	U	150	U	180	J	310	U	290	U
Acetophenone	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Aniline	ug/Kg			980	U	810	U	770	U			840	U	890	U	850	U
Anthracene	ug/Kg	100,000	100,000	330	U	680	U	260	U	220	J	1,200	U	310	U	9,200	U
Atrazine	ug/Kg									150	U						
Azobenzene	ug/Kg			330	U	280	U	260	U			290	U	310	U	290	U
Benz(a)anthracene	ug/Kg	1,000	1,000	320	J	2,400	U	260	U	450	U	3,000	U	150	J	13,000	U
Benzaldehyde	ug/Kg									270	U						
Benzidine	ug/Kg			330	U	280	U	260	U			290	U	310	U	290	U
Benzo(a)pyrene	ug/Kg	1,000	1,000	280	J	2,800	U	260	U	380	U	2,600	U	310	U	11,000	U
Benzo(b)fluoranthene	ug/Kg	1,000	1,000	320	J	3,600	U	260	U	440	U	3,100	U	170	J	12,000	U
Benzo(ghi)perylene	ug/Kg	100,000	100,000	330	U	1,100	U	260	U	180	J	1,600	U	310	U	3,800	U
Benzo(k)fluoranthene	ug/Kg	800	3,900	330	U	1,700	U	260	U	160	J	940	U	310	U	3,500	U
Benzoic acid	ug/Kg			980	U	810	U	770	U			840	U	890	U	850	U
Benzyl butyl phthalate	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Bis(2-chloroethoxy)methane	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Bis(2-chloroethyl)ether	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
Bis(2-chloroisopropyl)ether	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Bis(2-ethylhexyl)phthalate	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Carbazole	ug/Kg			980	U	810	U	770	U			370	J	890	U	4,700	U
Caprolactam	ug/Kg									1900	U						
Chrysene	ug/Kg	1,000	3,900	260	J	2,200	U	260	U	450	U	2,800	U	310	U	12,000	U
Dibenz(a,h)anthracene	ug/Kg	330	330	330	U	320	U	260	U	150	U	570	U	310	U	1,400	U
Dibenzofuran	ug/Kg			330	U	170	J	260	U	270	U	380	U	310	U	4,300	U
Diethyl phthalate	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Dimethylphthalate	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Di-n-butylphthalate	ug/Kg			330	U	280	U	260	U	270	U	290	U	910	U	290	U
Di-n-octylphthalate	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Fluoranthene	ug/Kg	100,000	100,000	530	U	3,800	U	260	U	960	U	5,700	U	290	J	30,000	U
Fluorene	ug/Kg	30,000	100,000	330	U	290	U	260	U	270	U	590	U	310	U	5,700	U
Hexachlorobenzene	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
Hexachlorobutadiene	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Hexachlorocyclopentadiene	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
Hexachloroethane	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
Indeno(1,2,3-cd)pyrene	ug/Kg	500	100,000	330	U	950	U	260	U	160	J	1,500	U	310	U	3,700	U
Isophorone	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
Naphthalene	ug/Kg	12,000	100,000	330	U	260	J	260	U	130	J	430	U	310	U	2,000	U
Nitrobenzene	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
N-Nitrosodimethylamine	ug/Kg			330	U	280	U	260	U	270	U	290	U	310	U	290	U
N-Nitrosodi-n-propylamine	ug/Kg			330	U	280	U	260	U	150	U	290	U	310	U	290	U
N-Nitrosodiphenylamine	ug/Kg			980	U	810	U	770	U	150	U	840	U	890	U	850	U
Pentachloronitrobenzene	ug/Kg			330	U	280	U	260	U			290	U	310	U	290	U
Pentachlorophenol	ug/Kg	800	6,700	330	U	280	U	260	U	270	U	290	U	310	U	290	U
Phenanthrene	ug/Kg	100,000	100,000	300	J	2,600	U	260	U	890	U	5,000	U	190	J	44,000	U
Phenol	ug/Kg	330	100,000	330	U	280	U	260	U	270	U	290	U	310	U	290	U
Pyrene	ug/Kg	100,000	100,000	490	U	3,500	U	260	U	970	U	4,800	U	260	J	27,000	U
Pyridine	ug/Kg			330	U	280	U	260	U			290	U	310	U	290	U

Result Exceeds Criteria:

Table 5 - Soil Samples - Semi Volatile Organics Analysis

Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 Project Id : 145 WEST	Lab Id Date Client Id Depth	BB93970 6/1/12 WS I-1 0-15 ft	BB91705 5/25/12 WS-I2	BB88917 5/21/12 WS I3	BB92294 5/30/12 WS I5	BB92741 5/31/12 WSJ1	BB88916 5/21/12 WS J3	BB97042 6/11/12 WS J4	BB92295 5/30/12 WS J5								
		375 UNREST.	375 RESTRICTED RESIDENTAL														
Semivolatiles By SW 8270	Units	SCO	SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,1-Biphenyl	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
1,2,4,5-Tetrachlorobenzene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
1,2,4-Trichlorobenzene	ug/Kg	1,100	100,000	260	U	290	U	260	U	280	U	280	U	270	U	280	U
1,2-Dichlorobenzene	ug/Kg	2,400	100,000	260	U	290	U	260	U	280	U	280	U	270	U	280	U
1,3-Dichlorobenzene	ug/Kg	1,800	4,900	260	U	290	U	260	U	280	U	280	U	270	U	280	U
1,4-Dichlorobenzene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U		
2,3,4,6-tetrachlorophenol	ug/Kg															280	U
2,4,5-Trichlorophenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
2,4,6-Trichlorophenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
2,4-Dichlorophenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
2,4-Dimethylphenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
2,4-Dinitrophenol	ug/Kg			420	U	470	U	410	U	440	U	450	U	430	U	280	U
2,4-Dinitrotoluene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
2,6-Dinitrotoluene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
2-Chloronaphthalene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
2-Chlorophenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
2-Methylnaphthalene	ug/Kg			260	U	1,300		260	U	280	U	280	U	270	U	280	U
2-Methylphenol (o-cresol)	ug/Kg	330	100,000	260	U	290	U	260	U	280	U	280	U	270	U	280	U
2-Nitroaniline	ug/Kg			420	U	470	U	410	U	440	U	450	U	430	U	2000	U
2-Nitrophenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
3&4-Methylphenol (m&p-cresol)	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
3,3'-Dichlorobenzidine	ug/Kg			530	U	580	U	510	U	550	U	560	U	540	U	160	U
3-Nitroaniline	ug/Kg			420	U	470	U	410	U	440	U	450	U	430	U	2000	U
4,6-Dinitro-2-methylphenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
4-Bromophenyl phenyl ether	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
4-Chloro-3-methylphenol	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
4-Chloroaniline	ug/Kg			530	U	580	U	510	U	550	U	560	U	540	U	810	U
4-Chlorophenyl phenyl ether	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
4-Nitroaniline	ug/Kg			420	U	470	U	410	U	440	U	450	U	430	U	2000	U
4-Nitrophenol	ug/Kg			770	U	840	U	740	U	800	U	810	U	790	U	2000	U
Acenaphthene	ug/Kg	20,000	100,000	260	U	790		260	U	280	U	280	U	270	U	280	U
Acenaphthylene	ug/Kg	100,000	100,000	260	U	270	J	260	U	280	U	280	U	270	U	160	U
Acetophenone	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Aniline	ug/Kg			770	U	840	U	740	U	800	U	810	U	790	U		
Anthracene	ug/Kg	100,000	100,000	260	U	350		260	U	280	U	280	U	270	U	280	U
Atrazine	ug/Kg															160	U
Azobenzene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U		
Benz(a)anthracene	ug/Kg	1,000	1,000	260	U	790		360		630		280	U	180	J	280	U
Benzaldehyde	ug/Kg															280	U
Benzidine	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U		
Benzo(a)pyrene	ug/Kg	1,000	1,000	260	U	700		340		560		280	U	140	J	160	U
Benzo(b)fluoranthene	ug/Kg	1,000	1,000	260	U	850		480		720		280	U	190	J	280	U
Benzo(ghi)perylene	ug/Kg	100,000	100,000	260	U	390		300		310		280	U	270	U	280	U
Benzo(k)fluoranthene	ug/Kg	800	3,900	260	U	400		150	J	240	J	280	U	270	U	280	U
Benzoic acid	ug/Kg			770	U	840	U	740	U	800	U	810	U	790	U		
Benzyl butyl phthalate	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Bis(2-chloroethoxy)methane	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Bis(2-chloroethyl)ether	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
Bis(2-chloroisopropyl)ether	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Bis(2-ethylhexyl)phthalate	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Carbazole	ug/Kg			770	U	840	U	740	U	800	U	810	U	790	U	280	U
Caprolactam	ug/Kg			260	U											2000	U
Chrysene	ug/Kg	1,000	3,900			760		390		630		280	U	170	J	280	U
Dibenz(a,h)anthracene	ug/Kg	330	330	260	U	180	J	260	U	280	U	280	U	270	U	160	U
Dibenzofuran	ug/Kg			260	U	570		260	U	280	U	280	U	270	U	280	U
Diethyl phthalate	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Dimethylphthalate	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Di-n-butylphthalate	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Di-n-octylphthalate	ug/Kg			260	U	110	J	260	U	280	U	280	U	270	U	280	U
Fluoranthene	ug/Kg	100,000	100,000	260	U	1,600		590		1,400		280	U	270	J	280	U
Fluorene	ug/Kg	30,000	100,000	260	U	1,100		260	U	280	U	280	U	270	U	280	U
Hexachlorobenzene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
Hexachlorobutadiene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Hexachlorocyclopentadiene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
Hexachloroethane	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
Indeno(1,2,3-cd)pyrene	ug/Kg	500	100,000	260	U	360		240	J	320		280	U	270	U	280	U
Isophorone	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
Naphthalene	ug/Kg	12,000	100,000	260	U	150	J	260	U	280	U	280	U	270	U	280	U
Nitrobenzene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
N-Nitrosodimethylamine	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	280	U
N-Nitrosodi-n-propylamine	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U	160	U
N-Nitrosodiphenylamine	ug/Kg			770	U	840	U	740	U	800	U	810	U	790	U	160	U
Pentachloronitrobenzene	ug/Kg			260	U	290	U	260	U	280	U	280	U	270	U		
Pentachlorophenol	ug/Kg	800	6,700	260	U	290	U	260	U	280	U	280	U				

Result Exceeds Criteria:

Table 5 - Soil Samples - Semi Volatile Organics Analysis

Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 Project Id : 145 WEST	Lab Id Date Client Id Depth	BB92737 5/31/12 WS-K1	BB92736 5/31/12 WS-K2	BB92735 5/31/12 WS-K3	BB92734 5/31/12 WS-K4	BB92733 5/31/12 WS-K5	BB96188 6/7/12 WS-S-1	BB96189 6/7/12 WS-S-2	BB96190 6/7/12 WS-S-4								
		375 UNREST.	375 RESTRICTED RESIDENTAL														
		SCO	SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Semivolatiles By SW 8270	Units																
1,1-Biphenyl	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
1,2,4,5-Tetrachlorobenzene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
1,2,4-Trichlorobenzene	ug/Kg	1,100	100,000	280	U	280	U	290	U	280	U	270	U				
1,2-Dichlorobenzene	ug/Kg	2,400	100,000	280	U	280	U	290	U	280	U	270	U				
1,3-Dichlorobenzene	ug/Kg	1,800	4,900	280	U	280	U	290	U	280	U	270	U				
1,4-Dichlorobenzene	ug/Kg			280	U	280	U	290	U	280	U	270	U				
2,3,4,6-tetrachlorophenol	ug/Kg													ND		ND	ND
2,4,5-Trichlorophenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2,4,6-Trichlorophenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2,4-Dichlorophenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2,4-Dimethylphenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2,4-Dinitrophenol	ug/Kg			450	U	450	U	460	U	450	U	440	U	ND		ND	ND
2,4-Dinitrotoluene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2,6-Dinitrotoluene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2-Chloronaphthalene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2-Chlorophenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2-Methylnaphthalene	ug/Kg			280	U	280	U	290	U	280	U	17,000		ND		ND	ND
2-Methylphenol (o-cresol)	ug/Kg	330	100,000	280	U	280	U	290	U	280	U	270	U	ND		ND	ND
2-Nitroaniline	ug/Kg			450	U	450	U	460	U	450	U	440	U	ND		ND	ND
2-Nitrophenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
3&4-Methylphenol (m&p-cresol)	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
3,3'-Dichlorobenzidine	ug/Kg			560	U	560	U	570	U	560	U	540	U	ND		ND	ND
3-Nitroaniline	ug/Kg			450	U	450	U	460	U	450	U	440	U	ND		ND	ND
4,6-Dinitro-2-methylphenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
4-Bromophenyl phenyl ether	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
4-Chloro-3-methylphenol	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
4-Chloroaniline	ug/Kg			560	U	560	U	570	U	560	U	540	U	ND		ND	ND
4-Chlorophenyl phenyl ether	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
4-Nitroaniline	ug/Kg			450	U	450	U	460	U	450	U	440	U	ND		ND	ND
4-Nitrophenol	ug/Kg			810	U	820	U	830	U	820	U	790	U	ND		ND	ND
Acenaphthene	ug/Kg	20,000	100,000	280	U	280	U	290	U	280	U	1,200		1,400		ND	ND
Acenaphthylene	ug/Kg	100,000	100,000	280	U	280	U	290	U	280	U	230	J	1,100		ND	ND
Acetophenone	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Aniline	ug/Kg			810	U	820	U	830	U	820	U	790	U				
Anthracene	ug/Kg	100,000	100,000	280	U	140	J	290	U	280	U	500		5,700		ND	ND
Atrazine	ug/Kg													ND		ND	ND
Azobenzene	ug/Kg			280	U	280	U	290	U	280	U	270	U				
Benz(a)anthracene	ug/Kg	1,000	1,000	280	U	390		170	J	280	U	450		5,700		ND	ND
Benzaldehyde	ug/Kg													ND		ND	ND
Benzo(a)pyrene	ug/Kg			280	U	280	U	290	U	280	U	270	U				
Benzo(b)fluoranthene	ug/Kg	1,000	1,000	280	U	320		150	J	280	U	300		5,200		ND	ND
Benzo(ghi)perylene	ug/Kg	100,000	100,000	280	U	210	J	290	U	280	U	180	J	2,000		ND	ND
Benzo(k)fluoranthene	ug/Kg	800	3,900	280	U	150	J	290	U	280	U	230	J	1,700		ND	ND
Benzoic acid	ug/Kg			810	U	820	U	830	U	820	U	790	U				
Benzyl butyl phthalate	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Bis(2-chloroethoxy)methane	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Bis(2-chloroethyl)ether	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Bis(2-chloroisopropyl)ether	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Bis(2-ethylhexyl)phthalate	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Carbazole	ug/Kg			810	U	820	U	830	U	820	U	790	U	ND		ND	ND
Caprolactam	ug/Kg													ND		ND	ND
Chrysene	ug/Kg	1,000	3,900	280	U	420		190	J	280	U	470		5,400		ND	ND
Dibenz(a,h)anthracene	ug/Kg	330	330	280	U	280	U	290	U	280	U	270	U	620		ND	ND
Dibenzofuran	ug/Kg			280	U	280	U	290	U	280	U	650		ND		ND	ND
Diethyl phthalate	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Dimethylphthalate	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Di-n-butylphthalate	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Di-n-octylphthalate	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Fluoranthene	ug/Kg	100,000	100,000	280	U	840		340		280	U	900		13,000		ND	ND
Fluorene	ug/Kg	30,000	100,000	280	U	280	U	290	U	280	U	1,700		1,100		ND	ND
Hexachlorobenzene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Hexachlorobutadiene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Hexachlorocyclopentadiene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Hexachloroethane	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Indeno(1,2,3-cd)pyrene	ug/Kg	500	100,000	280	U	170	J	290	U	280	U	150	J	2,000		ND	ND
Isophorone	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Naphthalene	ug/Kg	12,000	100,000	280	U	280	U	290	U	280	U	2,600		2,700		ND	630
Nitrobenzene	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
N-Nitrosodimethylamine	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
N-Nitrosodi-n-propylamine	ug/Kg			280	U	280	U	290	U	280	U	270	U	ND		ND	ND
N-Nitrosodiphenylamine	ug/Kg			810	U	820	U	830	U	820	U	790	U	ND		ND	ND
Pentachloronitrobenzene	ug/Kg			280	U	280	U	290	U	280	U	270	U				
Pentachlorophenol	ug/Kg	800	6,700	280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Phenanthrene	ug/Kg	100,000	100,000	280	U	1,100		280	J	280	U	5,200		14,000		ND	ND
Phenol	ug/Kg	330	100,000	280	U	280	U	290	U	280	U	270	U	ND		ND	ND
Pyrene	ug/Kg	100,000	100,000	280	U	870		330		280	U	1,400		11,000		ND	ND
Pyridine	ug/Kg			280	U	280	U	290	U	280	U	270	U				

Result Exceeds Criteria:

Exceeds Part 375 Restricted Residential
Exceeds Part 375 Unrestricted

Table 6 - Grid Soil Samples Metals Analysis
Huxley Envelope Site

Project Id : 145 WEST		Lab Id Coll. Date Client Id Matrix		BB93974 6/1/12 WSC3 TEST PIT Soil		BB96203 6/7/12 WS-C3A Soil		BB91710 5/29/12 WS-C5 Soil		BB93963 6/4/12 WS D1 0-15 FT Soil		BB96199 6/7/12 WS-D3 Soil		BB96198 6/7/12 WS-D4 Soil		BB91711 5/29/12 WSD 5 Soil		BB93962 6/4/12 WS E1 0-15 FT Soil	
Metals, Total	Units	375 UNREST. SCO	375 REST. RES SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Aluminum	mg/Kg			5,360	N	10,200		6,760	N	9,110	N	8,850		3,900		16,300	N	8,450	N
Antimony	mg/Kg			23.5		BRL		0.838	B	2.3	U	BRL		BRL		1.48	B	2.3	U
Arsenic	mg/Kg	13	16	44.2		2.96		9.67		16.8		5.98		6.71		21.3		6.75	
Barium	mg/Kg	350	400	133		70.4		84.3		262	N	86.6		77.4		893		71.5	N
Beryllium	mg/Kg	7.2	72	0.46		0.58		0.305	B	0.53		0.42		BRL		0.74		0.49	
Cadmium	mg/Kg	2.5	4.3	0.51	U	BRL		0.45		0.47	U	BRL		BRL		0.332	B	0.46	U
Calcium	mg/Kg			8,830	N	7,670		7,380		3,250	N	14,800		3,340		3,990		3,340	N
Chromium	mg/Kg	30	1,500	15.2		29.1		9.67		25.3		30.4		10.2		42.6		14.8	
Cobalt	mg/Kg			11.7		129		7.43		8.17		402		5.98		12		6.72	
Copper	mg/kg	50	270	203	N	107		88.6		76.6		199		89.2		274		55.9	
Iron	mg/Kg			33,700	N	32,500		23,400		22,700	N	25,400		23,000		37,300	*	19,400	N
Lead	mg/Kg	63	400	450		46.2		404	*	400	N*	60.7		353		895		118	N*
Magnesium	mg/Kg			1,210	N	3,770		3,040		4,480	N	6,780		1,270		6,850		3,290	N
Manganese	mg/Kg	1,600	2,000	559		309		254		271		416		213		447		195	
Mercury	mg/Kg	0.18	0.81	0.47		0.14		0.12		1.86		0.15		0.29		0.22		0.73	
Nickel	mg/Kg	30	310	23.8		39.7		12.9		21.1		68.1		16.2		29.4		24	
Potassium	mg/Kg			1,270	N	1,920		1,080		1,820	N	3,320		806		4,470		1,500	N
Selenium	mg/Kg	3.9	180	3.1		BRL		1.7	U	1.9	U	BRL		BRL		2.3	U	1.8	U
Silver	mg/Kg	2	180	1	U	BRL		0.43	U	0.47	U	BRL		BRL		0.58	U	0.46	U
Sodium	mg/Kg			1,210	N	564		1,090		1,980	N	808		245		1,810		910	N
Thallium	mg/Kg			2.0	U	BRL		1.7	U	1.9	U	BRL		BRL		2.3	U	1.8	U
Vanadium	mg/Kg			19.5		39.7		33.2		27.7		36.8		12.7		36		23.1	
Zinc	mg/Kg	109	10,000	196		68		147		230	N	81.3		215		307	*	88.4	N

Exceeds Part 375 Restricted Resid

Exceeds Part 375 Unrestricted

Table 6 - Grid Soil Samples Metals Analysis
Huxley Envelope Site

Project Id : 145 WEST		Lab Id Coll. Date Client Id Matrix		BB96192 6/7/12 WS-E2 Soil		BB93975 6/1/12 WSE3 Test Pit Soil		BB91712 5/30/12 WS E 5 Soil		BB93961 6/4/12 WS F1 0-15 FT Soil		BB96194 6/7/12 WS-F2 Soil		BB96196 6/7/12 WS-F3 Soil		BB96197 6/7/12 WS-F4 Soil		BB91713 5/30/12 WS F5 Soil	
Metals, Total	Units	375 UNREST. SCO	375 REST. RES SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Aluminum	mg/Kg			8,440		8,260	N	10,900	N	5,580	N	7,130		5,070		5,670		9,880	N
Antimony	mg/Kg			BRL		2.0	U	2.1	U	2.0	U	BRL		BRL		BRL		16.2	
Arsenic	mg/Kg	13	16	7.13		7.22		7.82		8.86		10.5		1.23		10.6		6.86	
Barium	mg/Kg	350	400	144		29.5		187		231	N	209		27.4		440		245	
Beryllium	mg/Kg	7.2	72	BRL		0.41		0.51		0.34		0.39		BRL		BRL		0.45	
Cadmium	mg/Kg	2.5	4.3	BRL		0.41	U	0.44		0.41	U	BRL		BRL		BRL		0.43	U
Calcium	mg/Kg			7,690		802	N	5,750		6,370	N	6,080		2,020		7,010		1,800	
Chromium	mg/Kg	30	1,500	20.9		12.6		20.7		14.4		32		11.6		17.2		21.3	
Cobalt	mg/Kg			9.88		7.05		12.8		5.61		81.5		6.26		6.25		7.86	
Copper	mg/kg	50	270	66.3		25.6		165		44.6		151		12.2		265		175	
Iron	mg/Kg			36,500		18,500	N	28,100		18,500	N	27,100		12,300		21,300		29,300	
Lead	mg/Kg	63	400	155		72.1	N	769	*	396	N*	673		27.9		1,020		349	*
Magnesium	mg/Kg			2,520		3,240	N	4,800		2,560	N	4,540		2,410		2,140		2,210	
Manganese	mg/Kg	1,600	2,000	472		377		466		152	N	215		117		377		291	
Mercury	mg/Kg	0.18	0.81	1.56		0.12		5.63		0.71		BRL		BRL		0.52		3.33	
Nickel	mg/Kg	30	310	17.3		16.1		23.9		14.5		31.4		8.15		15.9		14	
Potassium	mg/Kg			1,570		1,110	N	3,320		1,060	N	1,650		850		847		1,480	
Selenium	mg/Kg	3.9	180	BRL		1.6	U	1.7	U	1.6	U	BRL		BRL		BRL		1.7	U
Silver	mg/Kg	2	180	BRL		0.41	U	0.42	U	0.41	U	BRL		BRL		BRL		0.43	U
Sodium	mg/Kg			565		291	N	614		389	N	347		153		153		287	
Thallium	mg/Kg			BRL		1.6	U	1.7	U	1.6	U	BRL		BRL		BRL		1.7	U
Vanadium	mg/Kg			31.4		16.8		37.3		16.8		26.2		16.2		15.5		25.9	
Zinc	mg/Kg	109	10,000	129		169		324		116	N	136		34.4		219		101	

Exceeds Part 375 Restricted Resid

Exceeds Part 375 Unrestricted

Table 6 - Grid Soil Samples Metals Analysis
Huxley Envelope Site

Project Id : 145 WEST		Lab Id Coll. Date Client Id Matrix		BB93972 6/1/12 WS G 1 0-15 Soil		BB97041 6/11/12 WS G2 Soil		BB93978 6/1/12 WS-G4 3-15 FT Soil		BB91714 5/30/12 WS G5 Soil		BB93971 6/1/12 WS H-1 0-15 Soil		BB97039 6/11/12 WS H2 Soil		BB88918 5/21/12 WS H3 Soil	
Metals, Total	Units	375 UNREST. SCO	375 REST. RES SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Aluminum	mg/Kg			6,150	N	9,100	N	7,320	N	7,150	N	5,060	N	5,860	N	8,980	N
Antimony	mg/Kg			2.1	U	0.325	B	3.7		7.8		1.9	U	1.8	U	2.1	U
Arsenic	mg/Kg	13	16	5.56		4.98		16.3		19.4		2.93		3.75		9.02	
Barium	mg/Kg	350	400	210		83		231		92.3		60.9		131		206	
Beryllium	mg/Kg	7.2	72	0.318	B	0.268	B	0.48		0.39		0.36		0.35		0.322	B
Cadmium	mg/Kg	2.5	4.3	0.42	U	0.37	U	0.51	U	6.27		0.38	U	0.279	B	0.42	U
Calcium	mg/Kg			3,350	N	19,200		34,700	N	3,500		1,280	N	31,200		4,000	N
Chromium	mg/Kg	30	1,500	15.4		8.03		14.3		19.3		11.4		14.2		22.9	
Cobalt	mg/Kg			4.93		9.34		7.87		6.02		5.96		64.3		7.83	
Copper	mg/kg	50	270	85.7	N	102		90.5	N	25,300		17.8		101		156	
Iron	mg/Kg			15,700	N	41,300		19,500	N	17,300		17,300	N	16,600		22,700	
Lead	mg/Kg	63	400	551		2,630	*	436		3,190	*	94.2	N	162	*	421	
Magnesium	mg/Kg			2,050	N	7,460		1,930	N	3,210		1,830	N	6,270		3,300	N
Manganese	mg/Kg	1,600	2,000	227		426		166		192		115		229		272	
Mercury	mg/Kg	0.18	0.81	0.31		0.14		3.31		0.39		0.07	U	0.22		0.4	
Nickel	mg/Kg	30	310	10.2		11.7		16.6		27		10.9		15		19.6	
Potassium	mg/Kg			1,030	N	1,120		952	N	1,410		1,060	N	1,200		1,810	N
Selenium	mg/Kg	3.9	180	1.7	U	1.5	U	2.0	U	1.6	U	1.5	U	1.4		1.7	U
Silver	mg/Kg	2	180	0.42	U	0.37	U	1	U	11.4		0.38	U	0.35	U	0.42	U
Sodium	mg/Kg			295	N	837		723	N	1,920		308	N	440	U	250	N
Thallium	mg/Kg			1.7	U	1.5	U	2.0	U	1.6	U	1.5	U	1.4		1.7	U
Vanadium	mg/Kg			16.5		38		20.1		28.6		16.5		32.5	U	27.7	
Zinc	mg/Kg	109	10,000	73.2		101		246		9,830		34.4		416		364	

Exceeds Part 375 Restricted Resid

Exceeds Part 375 Unrestricted

Table 6 - Grid Soil Samples Metals Analysis
Huxley Envelope Site

Project Id : 145 WEST		Lab Id Coll. Date Client Id Matrix		BB93977 6/1/12 WS H4 3-15 FT Soil		BB92293 5/30/12 WS H 5 Soil		BB93970 6/1/12 WS I-1 0-15 Soil		BB91705 5/25/12 WS-I2 Soil		BB88917 5/21/12 WS I3 Soil		BB92294 5/30/12 WS I 5 Soil		BB92741 5/31/12 WS J1 Soil		BB88916 5/21/12 WS J3 Soil	
Metals, Total	Units	375 UNREST. SCO	375 REST. RES SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Aluminum	mg/Kg			8,470	N	5,180	N	5,930	N	6,730	N	10,300	N	7,840	N	7,830	N	7,840	N
Antimony	mg/Kg			2.3	U	2.1	U	1.9	U	2.0	U	2.0	U	1.8	U	1.9	U	1.9	U
Arsenic	mg/Kg	13	16	3.92		4.24		1.6		3.86		4.58		4.22		1.86		11.7	
Barium	mg/Kg	350	400	115		104		53.9		76.7		79.8		74.4		39.7		57.5	
Beryllium	mg/Kg	7.2	72	0.56		0.4		0.243	B	0.33		0.32	U	0.39		0.37		0.204	B
Cadmium	mg/Kg	2.5	4.3	0.47	U	0.41	U	0.38	U	0.271	B	0.40	U	0.195	B	0.39	U	0.38	U
Calcium	mg/Kg			3,160	N	3,010	N	715	N	7,310		38,900	N	2,220	N	705	N	4,530	N
Chromium	mg/Kg	30	1,500	20.1		10.3		10.1		17.2		8.58		14.5		15.5		17.4	
Cobalt	mg/Kg			30.2		6.06		4.38		5.41		10.5		7.15		5.36		7.44	
Copper	mg/kg	50	270	140	N	142		19.6		30		76		37.3		14.2		20.5	
Iron	mg/Kg			21,600	N	19,000	N	12,700	N	24,600	*	27,500		16,600	N	19,300	N	33,800	
Lead	mg/Kg	63	400	245		310		116	N	158		77.8		94.1		0.77	U*	96.5	
Magnesium	mg/Kg			3,530	N	2,050	N	2,010	N	2,490		15,500	N	2,990	N	2,370	N	2,640	N
Manganese	mg/Kg	1,600	2,000	240		197		115		307		433		301		221		355	
Mercury	mg/Kg	0.18	0.81	2.56		0.06	B	0.04	B	0.29		0.07	U	0.09	U	0.08	U	0.10	U
Nickel	mg/Kg	30	310	22.3		13.3		9.88		12.4		12.7		14.9		11.1		16.4	
Potassium	mg/Kg			1,700	N	1,000	N	737	N	1,010		1,890	N	1,130	N	938	N	1,200	N
Selenium	mg/Kg	3.9	180	1.9	U	1.6	UN	1.5	U	1.6	U	1.6	U	1.4	UN	1.5	U	1.5	U
Silver	mg/Kg	2	180	0.43	U	0.41	U	0.38	U	0.41	U	0.40	U	0.35	U	0.39	U	0.38	U
Sodium	mg/Kg			191	N	228		201	N	130		1,050	N	211		98		112	N
Thallium	mg/Kg			1.9	U	1.6	U	1.5	U	1.6	U	1.6	U	1.4	U	1.5	U	1.5	U
Vanadium	mg/Kg			25		18		13.8		18.7		64.4		23		23		19.4	
Zinc	mg/Kg	109	10,000	185		105		27.8		302		89.4		126		31		63	

Exceeds Part 375 Restricted Resid

Exceeds Part 375 Unrestricted

Table 6 - Grid Soil Samples Metals Analysis
Huxley Envelope Site

Project Id :		Lab Id		BB97042		BB92295		BB92737		BB92736		BB92735		BB92734		BB92733	
145 WEST		Coll. Date		6/11/12		5/30/12		5/31/12		5/31/12		5/31/12		5/31/12		5/31/12	
		Client Id		WS J4		WS J 5		WS-K1		WS-K2		WS-K3		WS-K4		WS-K5	
		Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Metals, Total	Units	375 UNREST. SCO	375 REST. RES SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Aluminum	mg/Kg			6,430		8,240	N	9,070	N	9,330	N	5,310	N	8,170	N	6,130	N
Antimony	mg/Kg			1	B	2.0	U	2.0	U	2.1	U	1.8	U	1.8	U	1.9	U
Arsenic	mg/Kg	13	16	2.01		3.05		3.32		3.06		1.76		2.67		3.68	
Barium	mg/Kg	350	400	48.8	*	66.7		46.5		80.5		32.5		48.4		92.2	
Beryllium	mg/Kg	7.2	72	0.256	B	0.37		0.44		0.4		0.3		0.35		0.34	
Cadmium	mg/Kg	2.5	4.3	0.43	U	0.40	U	0.39	U	0.42	U	0.37	U	0.36	U	0.39	U
Calcium	mg/Kg			1,590	*	1,000	N	4,640	N	1,320	N	868	N	1,900	N	11,200	N
Chromium	mg/Kg	30	1,500	11.3		13.3		14.8		13		12.2		13		10.5	
Cobalt	mg/Kg			5.58		7.42		7.58		5.63		6.7		5.69		4.54	
Copper	mg/kg	50	270	10.4		20		14.6		15.1		8.02		15.1		15	
Iron	mg/Kg			11,900		18,400	N	29,700	N	15,000	N	9,600	N	12,700	N	11,200	N
Lead	mg/Kg	63	400	25.9	*	29.9		0.78	U*	0.84	U*	7.67	*	5.69	*	43.4	*
Magnesium	mg/Kg			2,440		3,100	N	3,050	N	3,200	N	2,030	N	2,920	N	2,390	N
Manganese	mg/Kg	1,600	2,000	260	N	246		197		116		86.8		123		161	
Mercury	mg/Kg	0.18	0.81	0.08	U	0.08	U	0.08	U	0.09	U	0.08	B	0.10	U	0.08	U
Nickel	mg/Kg	30	310	13.2		16.8		14.7		15.7		12		13		11.4	
Potassium	mg/Kg			863	N	1,080	N	1,010	N	869	N	930	N	1,030	N	1,070	N
Selenium	mg/Kg	3.9	180	1.7	U	1.6	UN	1.6	U	1.7	U	1.5	U	1.5	U	1.5	U
Silver	mg/Kg	2	180			0.40	U	0.39	U	0.42	U	0.37	U	0.36	U	0.39	U
Sodium	mg/Kg			98		189		171		83		205		95		148	
Thallium	mg/Kg			1.7	U	1.6	U	1.6	U	1.7	U	1.5	U	1.5	U	1.5	U
Vanadium	mg/Kg			13.8		16.8		17.2		16		13.8		16.4		15.9	
Zinc	mg/Kg	109	10,000	73.4	N	67.6		41.1		44		35.3		45.5		65.4	

Exceeds Part 375 Restricted Resid

Exceeds Part 375 Unrestricted

Table 6 - Grid Soil Samples Metals Analysis
Huxley Envelope Site

Project Id : 145 WEST		Lab Id Coll. Date Client Id Matrix		BB96188 6/7/12 WS-S-1 Soil		BB96189 6/7/12 WS-S-2 Soil		BB96190 6/7/12 WS-S-4 Soil	
Metals, Total	Units	375 UNREST. SCO	375 REST. RES SCO	Result	Qual	Result	Qual	Result	
Aluminum	mg/Kg			3,220		7,120		7,840	
Antimony	mg/Kg			BRL		BRL		BRL	
Arsenic	mg/Kg	13	16	5.5		12		49.3	
Barium	mg/Kg	350	400	90		316		225	
Beryllium	mg/Kg	7.2	72	0.41		0.63		0.46	
Cadmium	mg/Kg	2.5	4.3	BRL		BRL		BRL	
Calcium	mg/Kg			3,470		5,100		25,300	
Chromium	mg/Kg	30	1,500	8.31		15.5		52.3	
Cobalt	mg/Kg			5.17		7.5		6.1	
Copper	mg/kg	50	270	41.8		142		40.5	
Iron	mg/Kg			10,800		18,100		18,000	
Lead	mg/Kg	63	400	126		700		1,740	
Magnesium	mg/Kg			592		1,490		3,680	
Manganese	mg/Kg	1,600	2,000	120		72.8		368	
Mercury	mg/Kg	0.18	0.81	6.78		3.42		1.78	
Nickel	mg/Kg	30	310	11.9		21.5		17.2	
Potassium	mg/Kg			421		932		2,400	
Selenium	mg/Kg	3.9	180	BRL		BRL		BRL	
Silver	mg/Kg	2	180	BRL		BRL		BRL	
Sodium	mg/Kg			998		3,400		3,220	
Thallium	mg/Kg			BRL		BRL		BRL	
Vanadium	mg/Kg			16		29.3		20.3	
Zinc	mg/Kg	109	10,000	94.9		191		500	

Exceeds Part 375 Restricted Resid
Exceeds Part 375 Unrestricted

Table 7 - End Point Soil Samples - Volatile Organics
Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040		Lab Id Coll Date Client Id Depth	BB93968 6/4/12 WS A1 20 FT Solid	BB95366 6/6/12 WS B2 25 ft		BB91709 5/25/12 WS-C2 30 ft		BB96204 6/7/12 WS-C3A 30 ft	BB95363 6/6/12 WS D2-25 25 ft	BB96193 6/7/12 WS-E2 30 ft	BB97046 6/11/12 WS F1 30 30 ft	
Project Id : 145 WEST												
		375 UNREST.										
Volatiles By SW8260	Units	SCO	Result	Qual	Result	Qual	Result	Qual	Result	Result	Result	Qual
1,1,1,2-Tetrachloroethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND		
1,1,1-Trichloroethane	ug/Kg	680	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,1,2,2-Tetrachloroethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,1,2-Trichloroethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,1-Dichloroethane	ug/Kg	270	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,1-Dichloroethene	ug/Kg	330	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,1-Dichloropropene	ug/Kg		89	U	ND	U	5.7	U		ND		
1,2,3-Trichlorobenzene	ug/Kg		89	U	ND	U	5.7	U		ND		
1,2,3-Trichloropropane	ug/Kg		89	U	ND	U	5.7	U	ND	ND		6.0 U
1,2,4-Trichlorobenzene	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,2,4-Trimethylbenzene	ug/Kg	3,600	210		ND	U	5.7	U		ND		
1,2-Dibromo-3-chloropropane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,2-Dibromoethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,2-Dichlorobenzene	ug/Kg	1,100	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,2-Dichloroethane	ug/Kg	20	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,2-Dichloropropane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,3,5-Trimethylbenzene	ug/Kg	8,400	100		ND	U	5.7	U		ND		
1,3-Dichlorobenzene	ug/Kg	2,400	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
1,3-Dichloropropane	ug/Kg		89	U	ND	U	5.7	U		ND		
1,4-Dichlorobenzene	ug/Kg	1,800	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
2,2-Dichloropropane	ug/Kg		89	U	ND	U	5.7	U		ND		
2-Chlorotoluene	ug/Kg		89	U	ND	U	5.7	U		ND		
2-Hexanone	ug/Kg		450	U	ND	U	29	U	ND	ND	ND	30 U
2-Isopropyltoluene	ug/Kg		43	J	ND	U	5.7	U		ND		
4-Chlorotoluene	ug/Kg		89	U	ND	U	5.7	U		ND		
4-Methyl-2-pentanone	ug/Kg		450	U	ND	U	29	U	ND		ND	30 U
Acetone	ug/Kg	50	200	JS	ND	U	57	U	ND	ND	ND	14 U
Acrylonitrile	ug/Kg		180	U	ND	U	11	U		ND		
Benzene	ug/Kg	60	89	U	ND	U	5.7	U	ND		ND	6.0 U
Bromobenzene	ug/Kg		89	U	ND	U	5.7	U		ND		
Bromochloromethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Bromodichloromethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Bromoform	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Bromomethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Carbon Disulfide	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Carbon tetrachloride	ug/Kg	760	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Chlorobenzene	ug/Kg	1,100	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Chloroethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Chloroform	ug/Kg	370	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Chloromethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
cis-1,2-Dichloroethene	ug/Kg	250	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
cis-1,3-Dichloropropene	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Cyclohexane	ug/Kg								ND	ND	ND	6.0 U
Dibromochloromethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Dibromomethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Dichlorodifluoromethane	ug/Kg		89	U	ND	U	5.7	U		ND		
Ethylbenzene	ug/Kg	1,000	16	J	ND	U	5.7	U	ND	ND	ND	6.0 U
Hexachlorobutadiene	ug/Kg		89	U	ND	U	5.7	U		ND		
Isopropylbenzene	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
m&p-Xylene	ug/Kg		42	J	ND	U	5.7	U	ND	ND	ND	6.0 U
Methyl Ethyl Ketone	ug/Kg	120	540	U	ND	U	34	U	ND	ND	ND	36 U
Methyl t-butyl ether (MTBE)	ug/Kg	930	180	U	ND	U	11	U	ND	ND	ND	12 S
Methylacetate	ug/Kg								ND	ND	ND	6.0 U
Methylcyclohexane	ug/Kg								ND	ND	ND	6.0 U
Methylene chloride	ug/Kg	50		S	ND	U	3.9	JS	ND	ND	ND	12 U
Naphthalene	ug/Kg	12,000	3,800	D	ND	U	5.7	U		ND		
n-Butylbenzene	ug/Kg	12,000	89	U	ND	U	5.7	U		ND		
n-Propylbenzene	ug/Kg	3,900	89	U	ND	U	5.7	U		ND		
o-Xylene	ug/Kg		89	U	ND	U	5.7	U		ND	ND	6.0 U
p-Isopropyltoluene	ug/Kg		30	J	ND	U	5.7	U	ND	ND		
sec-Butylbenzene	ug/Kg	11,000	89	U	ND	U	5.7	U		ND		
Styrene	ug/Kg		89	U	ND	U	5.7	U		ND	ND	6.0 U
tert-Butylbenzene	ug/Kg	5,900	89	U	ND	U	5.7	U	ND	ND		
Tetrachloroethene	ug/Kg	1,300	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Tetrahydrofuran (THF)	ug/Kg		180	U	ND	U	11	U		ND		
Toluene	ug/Kg	700	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Total Xylene					ND	U			ND	ND	ND	6.0 U
trans-1,2-Dichloroethene	ug/Kg	190	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
trans-1,3-Dichloropropene	ug/Kg		89	U	ND	U	5.7	U	ND	ND		
trans-1,4-dichloro-2-butene	ug/Kg		180	U	ND	U	11	U		ND	ND	6.0 U
Trichloroethene	ug/Kg	470	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Trichlorofluoromethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Trichlorotrifluoroethane	ug/Kg		89	U	ND	U	5.7	U	ND	ND	ND	6.0 U
Vinyl chloride	ug/Kg	20	89	U	ND	U	5.7	U	ND	ND	ND	6.0 U

RL Exceeds Criteria:

Table 7 - End Point Soil Samples - Volatile Organics
Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040			Lab Id Coll Date Client Id Depth	BB96195 6/7/12 WS-F2 30 ft	BB93973 6/1/12 WSH1 20-22 Soil	BB97040 6/11/12 WS H2-25 25 ft	BB97048 6/11/12 WS I-1 30 30 ft	BB97045 6/11/12 WS I3 25 25 ft	BB97044 6/11/12 WS J4 25 25ft		
Project Id : 145 WEST											
		375 UNREST. SCO									
Volatiles By SW8260	Units		Result	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,1,1,2-Tetrachloroethane	ug/Kg			5.7	U						
1,1,1-Trichloroethane	ug/Kg	680	ND	5.7	U	6.1	U	6.0	U	6.0	U
1,1,2,2-Tetrachloroethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.0	U
1,1,2-Trichloroethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.0	U
1,1-Dichloroethane	ug/Kg	270	ND	5.7	U	6.1	U	6.0	U	6.0	U
1,1-Dichloroethene	ug/Kg	330	ND	5.7	U	6.1	U	6.0	U	6.0	U
1,1-Dichloropropene	ug/Kg			5.7	U						
1,2,3-Trichlorobenzene	ug/Kg			5.7	U						
1,2,3-Trichloropropane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.0	U
1,2,4-Trichlorobenzene	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.0	U
1,2,4-Trimethylbenzene	ug/Kg	3,600		5.7	U						
1,2-Dibromo-3-chloropropane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.0	U
1,2-Dibromoethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.0	U
1,2-Dichlorobenzene	ug/Kg	1,100	ND	5.7	U	6.1	U	6.0	U	6.0	U
1,2-Dichloroethane	ug/Kg	20	ND	5.7	U	6.1	U	6.0	U	6.0	U
1,2-Dichloropropane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.0	U
1,3,5-Trimethylbenzene	ug/Kg	8,400		5.7	U						
1,3-Dichlorobenzene	ug/Kg	2,400	ND	5.7	U	6.1	U	6.0	U	6.0	U
1,3-Dichloropropane	ug/Kg			5.7	U						
1,4-Dichlorobenzene	ug/Kg	1,800	ND	5.7	U	6.1	U	6.0	U	6.0	U
2,2-Dichloropropane	ug/Kg			5.7	U			30	U	31	U
2-Chlorotoluene	ug/Kg			5.7	U						
2-Hexanone	ug/Kg		ND	29	U	30	U				
2-Isopropyltoluene	ug/Kg			5.7	U			30	U	31	U
4-Chlorotoluene	ug/Kg			5.7	U						
4-Methyl-2-pentanone	ug/Kg		ND	29	U	30	U				
Acetone	ug/Kg	50	ND	7.4	JS	70	S	11	JS	12	JS
Acrylonitrile	ug/Kg			11	U			6.0	U	6.3	U
Benzene	ug/Kg	60	ND	5.7	U	6.1	U				
Bromobenzene	ug/Kg			5.7	U			6.0	U	6.3	U
Bromochloromethane	ug/Kg		ND	5.7	U	6.1	U				
Bromodichloromethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Bromoform	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Bromomethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Carbon Disulfide	ug/Kg		ND	1.1	J	6.1	U	6.0	U	6.3	U
Carbon tetrachloride	ug/Kg	760	ND	5.7	U	6.1	U	6.0	U	6.3	U
Chlorobenzene	ug/Kg	1,100	ND	5.7	U	6.1	U	6.0	U	6.3	U
Chloroethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Chloroform	ug/Kg	370	ND	5.7	U	6.1	U	6.0	U	6.3	U
Chloromethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
cis-1,2-Dichloroethene	ug/Kg	250	ND	5.7	U	6.1	U	6.0	U	6.3	U
cis-1,3-Dichloropropene	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Cyclohexane	ug/Kg		ND			6.1	U	6.0	U	6.3	U
Dibromochloromethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Dibromomethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Dichlorodifluoromethane	ug/Kg			5.7	U						
Ethylbenzene	ug/Kg	1,000	ND	5.7	U	6.1	U	6.0	U	6.3	U
Hexachlorobutadiene	ug/Kg			5.7	U						
Isopropylbenzene	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
m&p-Xylene	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Methyl Ethyl Ketone	ug/Kg	120	ND	34	U	37	U	36	U	38	U
Methyl t-butyl ether (MTBE)	ug/Kg	930	ND	11	U	12	U	12	U	13	U
Methylacetate	ug/Kg		ND			6.1	U	6.0	U	6.3	U
Methylcyclohexane	ug/Kg		ND			6.1	U	6.0	U	6.3	U
Methylene chloride	ug/Kg	50	ND	3	JS	18	S	13	S	13	S
Naphthalene	ug/Kg	12,000		5.7	U						
n-Butylbenzene	ug/Kg	12,000		5.7	U						
n-Propylbenzene	ug/Kg	3,900		5.7	U						
o-Xylene	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
p-Isopropyltoluene	ug/Kg			5.7	U						
sec-Butylbenzene	ug/Kg	11,000		5.7	U						
Styrene	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
tert-Butylbenzene	ug/Kg	5,900		5.7	U						
Tetrachloroethene	ug/Kg	1,300	ND	5.7	U	6.1	U	6.0	U	6.3	U
Tetrahydrofuran (THF)	ug/Kg			11	U						
Toluene	ug/Kg	700	ND	5.7	U	6.1	U	6.0	U	6.3	U
Total Xylene	ug/Kg		ND			6.1	U	6.0	U	6.3	U
trans-1,2-Dichloroethene	ug/Kg	190	ND	5.7	U	6.1	U	6.0	U	6.3	U
trans-1,3-Dichloropropene	ug/Kg			5.7	U	6.1	U	6.0	U	6.3	U
trans-1,4-dichloro-2-butene	ug/Kg		ND	11	U						
Trichloroethene	ug/Kg	470	ND	5.7	U	6.1	U	6.0	U	6.3	U
Trichlorofluoromethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Trichlorotrifluoroethane	ug/Kg		ND	5.7	U	6.1	U	6.0	U	6.3	U
Vinyl chloride	ug/Kg	20	ND	5.7	U	6.1	U	6.0	U	6.3	U

RL Exceeds Criteria: [REDACTED]

Table 7 - End Point Soil Samples - Volatile Organics
Huxley Envelope Site

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040			Lab Id Coll Date Client Id Depth	BB92740 5/31/12 WSK3 20 20 ft	BB97047 6/11/12 WS K4 30 Soil	BB92739 5/31/12 WSK5 20 Soil		
Project Id : 145 WEST								
		375 UNREST.						
Volatiles By SW8260	Units	SCO	Result	Qual	Result	Qual	Result	Qual
1,1,1,2-Tetrachloroethane	ug/Kg		5.9	U			5.9	U
1,1,1-Trichloroethane	ug/Kg	680	5.9	U	5.7	U	5.9	U
1,1,2,2-Tetrachloroethane	ug/Kg		5.9	U	5.7	U	5.9	U
1,1,2-Trichloroethane	ug/Kg		5.9	U	5.7	U	5.9	U
1,1-Dichloroethane	ug/Kg	270	5.9	U	5.7	U	5.9	U
1,1-Dichloroethene	ug/Kg	330	5.9	U	5.7	U	5.9	U
1,1-Dichloropropene	ug/Kg		5.9	U			5.9	U
1,2,3-Trichlorobenzene	ug/Kg		5.9	U			5.9	U
1,2,3-Trichloropropane	ug/Kg		5.9	U	5.7	U	5.9	U
1,2,4-Trichlorobenzene	ug/Kg		5.9	U	5.7	U	5.9	U
1,2,4-Trimethylbenzene	ug/Kg	3,600	5.9	U			5.9	U
1,2-Dibromo-3-chloropropane	ug/Kg		5.9	U	5.7	U	5.9	U
1,2-Dibromoethane	ug/Kg		5.9	U	5.7	U	5.9	U
1,2-Dichlorobenzene	ug/Kg	1,100	5.9	U	5.7	U	5.9	U
1,2-Dichloroethane	ug/Kg	20	5.9	U	5.7	U	5.9	U
1,2-Dichloropropane	ug/Kg		5.9	U	5.7	U	5.9	U
1,3,5-Trimethylbenzene	ug/Kg	8,400	5.9	U			5.9	U
1,3-Dichlorobenzene	ug/Kg	2,400	5.9	U	5.7	U	5.9	U
1,3-Dichloropropane	ug/Kg		5.9	U			5.9	U
1,4-Dichlorobenzene	ug/Kg	1,800	5.9	U	5.7	U	5.9	U
2,2-Dichloropropane	ug/Kg		5.9	U			5.9	U
2-Chlorotoluene	ug/Kg		5.9	U			5.9	U
2-Hexanone	ug/Kg		29	U	29	U	29	U
2-Isopropyltoluene	ug/Kg		5.9	U			5.9	U
4-Chlorotoluene	ug/Kg		5.9	U			5.9	U
4-Methyl-2-pentanone	ug/Kg		29	U	29	JS	29	U
Acetone	ug/Kg	50	59	U	6	U	59	U
Acrylonitrile	ug/Kg		12	U			12	U
Benzene	ug/Kg	60	5.9	U	5.7	U	5.9	U
Bromobenzene	ug/Kg		5.9	U			5.9	U
Bromochloromethane	ug/Kg		5.9	U	5.7	U	5.9	U
Bromodichloromethane	ug/Kg		5.9	U	5.7	U	5.9	U
Bromoform	ug/Kg		5.9	U	5.7	U	5.9	U
Bromomethane	ug/Kg		5.9	U	5.7	U	5.9	U
Carbon Disulfide	ug/Kg		1.2	J	5.7	U	5.9	U
Carbon tetrachloride	ug/Kg	760	5.9	U	5.7	U	5.9	U
Chlorobenzene	ug/Kg	1,100	5.9	U	5.7	U	5.9	U
Chloroethane	ug/Kg		5.9	U	5.7	U	5.9	U
Chloroform	ug/Kg	370	5.9	U	5.7	U	5.9	U
Chloromethane	ug/Kg		5.9	U	5.7	U	5.9	U
cis-1,2-Dichloroethene	ug/Kg	250	5.9	U	5.7	U	5.9	U
cis-1,3-Dichloropropene	ug/Kg		5.9	U	5.7	U	5.9	U
Cyclohexane	ug/Kg				5.7	U		
Dibromochloromethane	ug/Kg		5.9	U	5.7	U	5.9	U
Dibromomethane	ug/Kg		5.9	U	5.7	U	5.9	U
Dichlorodifluoromethane	ug/Kg		5.9	U			5.9	U
Ethylbenzene	ug/Kg	1,000	5.9	U	5.7	U	5.9	U
Hexachlorobutadiene	ug/Kg		5.9	U			5.9	U
Isopropylbenzene	ug/Kg		5.9	U	5.7	U	5.9	U
m&p-Xylene	ug/Kg		5.9	U	5.7	U	5.9	U
Methyl Ethyl Ketone	ug/Kg	120	35	U	34	U	35	U
Methyl t-butyl ether (MTBE)	ug/Kg	930	12	U	11	S		
Methylacetate	ug/Kg				5.7	U		
Methylcyclohexane	ug/Kg				5.7	U	12	U
Methylene chloride	ug/Kg	50	2.2	JS	11	U	1.9	JS
Naphthalene	ug/Kg	12,000	5.9	U			5.9	U
n-Butylbenzene	ug/Kg	12,000	5.9	U			5.9	U
n-Propylbenzene	ug/Kg	3,900	5.9	U			5.9	U
o-Xylene	ug/Kg		5.9	U	5.7	U	5.9	U
p-Isopropyltoluene	ug/Kg		5.9	U			5.9	U
sec-Butylbenzene	ug/Kg	11,000	5.9	U			5.9	U
Styrene	ug/Kg		5.9	U	5.7	U	5.9	U
tert-Butylbenzene	ug/Kg	5,900	5.9	U			5.9	U
Tetrachloroethene	ug/Kg	1,300	5.9	U	5.7	U	5.9	U
Tetrahydrofuran (THF)	ug/Kg		12	U			12	U
Toluene	ug/Kg	700	5.9	U	5.7	U	5.9	U
Total Xylene					5.7	U		
trans-1,2-Dichloroethene	ug/Kg	190	5.9	U	5.7	U	5.9	U
trans-1,3-Dichloropropene	ug/Kg		5.9	U			5.9	U
trans-1,4-dichloro-2-butene	ug/Kg		12	U	5.7	U	12	U
Trichloroethene	ug/Kg	470	5.9	U	5.7	U	5.9	U
Trichlorofluoromethane	ug/Kg		5.9	U	5.7		5.9	U
Trichlorotrifluoroethane	ug/Kg		5.9	U	5.7		5.9	U
Vinyl chloride	ug/Kg	20	5.9	U	5.7		5.9	U

RL Exceeds Criteria:

Table 8 - Endpoint Soil Samples - SVOC
Huxley Envelope Site

Phoenix Environmental
Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Lab Id
Coil Date
Client Id
Depth
Matrix

Project Id : 145 WEST

Semivolatiles By SW 8270	Units	375																	
		UNREST. SCO	Result	Qual	Result	Result	Qual	Result	Result	Result	Result	Qual	Result	Result	Qual	Result	Qual		
1,1-Biphenyl	ug/Kg							ND		ND			ND				280	U	
1,2,4,5-Tetrachlorobenzene	ug/Kg		410	U		ND		260	U	ND		260		270	U		280	U	
1,2,4-Trichlorobenzene	ug/Kg		410	U		ND		260	U			260							
1,2-Dichlorobenzene	ug/Kg	1,100	410	U		ND		260	U			260					260	U	
1,3-Dichlorobenzene	ug/Kg	2,400	410	U		ND		260	U			260					260	U	
1,4-Dichlorobenzene	ug/Kg	1,800	410	U		ND		260	U			260					260	U	
2,3,4,6-tetrachlorophenol	ug/Kg									ND		270	U		ND			280	U
2,4,5-Trichlorophenol	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
2,4,6-Trichlorophenol	ug/Kg		410	U		ND		260	U	ND		260		160	U		260	U	
2,4-Dichlorophenol	ug/Kg		410	U		ND		260	U	ND		260		160	U		260	U	
2,4-Dimethylphenol	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
2,4-Dinitrophenol	ug/Kg		650	U		ND		420	U	ND		600		270	U		420	U	
2,4-Dinitrotoluene	ug/Kg		410	U		ND		260	U	ND		260		160	U		260	U	
2,6-Dinitrotoluene	ug/Kg		410	U		ND		260	U	ND		260		160	U		260	U	
2-Chloronaphthalene	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
2-Chlorophenol	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
2-Methylnaphthalene	ug/Kg		380	J		ND		260	U	ND		260		270	U		260	U	
2-Methylphenol (o-cresol)	ug/Kg	330	410	U		ND		260	U	ND		260		270	U		260	U	
2-Nitroaniline	ug/Kg		650	U		ND		420	U	ND		600		270	U		420	U	
2-Nitrophenol	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
3&4-Methylphenol (m&p-cr)	ug/Kg		410	U		ND		260	U	ND		370		270	U		260	U	
3,3'-Dichlorobenzidine	ug/Kg		820	U		ND		520	U	ND		260		160	U		530	U	
3-Nitroaniline	ug/Kg		650	U		ND		420	U	ND		600		ND	1900	U	420	U	
4,6-Dinitro-2-methylphenol	ug/Kg		410	U		ND		260	U	ND		1,100		270	U		260	U	
4-Bromophenyl phenyl ethe	ug/Kg		410	U		ND		260	U	ND		370		270	U		260	U	
4-Chloro-3-methylphenol	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
4-Chloroaniline	ug/Kg		820	U		ND		520	U	ND		260		780	U		530	U	
4-Chlorophenyl phenyl ethe	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
4-Nitroaniline	ug/Kg		650	U		ND		420	U	ND		600		ND	1900	U	420	U	
4-Nitrophenol	ug/Kg		1200	U		ND		750	U	ND		1,100		ND	1900	U	760	U	
Acenaphthene	ug/Kg	20,000	410	U		ND		260	U	ND		260		270	U		260	U	
Acenaphthylene	ug/Kg	100,000	410	U		ND		260	U	ND		260		270	U		260	U	
Acetophenone	ug/Kg		410	U		ND		260	U	ND		260		270	U		260	U	
Aniline	ug/Kg		1200	U		ND		750	U			1,100					760	U	
Anthracene	ug/Kg	100,000	410	U		ND		260	U			260		ND	270	U	260	U	
Atrazine	ug/Kg									ND		260		ND	160	U		160	U
Azobenzene	ug/Kg		410	U		ND		260	U			370					260	U	
Benz(a)anthracene	ug/Kg	1,000	360	J		600		260	U	ND		260		ND	270	U	260	U	
Benzaldehyde	ug/Kg									ND				270	U			280	U
Benzidine	ug/Kg	1,000	410	U		ND		260	U			450					260	U	
Benzo(a)pyrene	ug/Kg	1,000	260	J		550		260	U	ND		260		ND	160	U	260	U	
Benzo(b)fluoranthene	ug/Kg	100,000	290	J		660		260	U	ND		260		ND	270	U	260	U	
Benzo(ghi)perylene	ug/Kg	800	410	U		ND		260	U	ND		260		ND	270	U	260	U	
Benzo(k)fluoranthene	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Benzoic acid	ug/Kg		1200	U		ND		750	U			1,100					760	U	
Benzyl butyl phthalate	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Bis(2-chloroethoxy)methan	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Bis(2-chloroethyl)ether	ug/Kg		410	U		ND		260	U	ND		370		ND	160	U	260	U	
Bis(2-chloroisopropyl)ether	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Bis(2-ethylhexyl)phthalate	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Carbazole	ug/Kg		1200	U		ND		750	U			560		ND	270	U	760	U	
Caprolactam	ug/Kg									ND				ND	1900	U		2000	U
Chrysene	ug/Kg	1,000	350	J		560		260	U	ND		260		ND	270	U	260	U	
Dibenz(a,h)anthracene	ug/Kg	330	410	U		ND		260	U	ND		260		ND	160	U	260	U	
Dibenzofuran	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Diethyl phthalate	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Dimethylphthalate	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Di-n-butylphthalate	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Di-n-octylphthalate	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Fluoranthene	ug/Kg	100,000	550			1,000		260	U	ND		260		ND	270	U	260	U	
Fluorene	ug/Kg	30,000	410	U		ND		260	U	ND		260		ND	270	U	260	U	
Hexachlorobenzene	ug/Kg		410	U		ND		260	U	ND		260		ND	160	U	260	U	
Hexachlorobutadiene	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Hexachlorocyclopentadiene	ug/Kg		410	U		ND		260	U	ND		260		ND	270	U	260	U	
Hexachloroethane	ug/Kg		410	U		ND		260	U	ND		260		ND	160	U	260	U	
Indeno(1,2,3-cd)pyrene	ug/Kg	500	410	U		ND		260	U	ND		260		ND	270	U	260	U	
Isophorone	ug/Kg		410	U		ND		260	U	ND		260		ND	160	U	260	U	
Naphthalene	ug/Kg	12,000	4,000			ND		260	U	ND		260		ND	270	U	260	U	
Nitrobenzene	ug/Kg		410	U		ND		260	U	ND		260		ND	160	U	260	U	
N-Nitrosodimethylamine	ug/Kg		410	U		ND		260	U	ND		370		ND	270	U	260	U	
N-Nitrosodi-n-propylamine	ug/Kg		410	U		ND		260	U	ND		260		ND	160	U	260	U	
N-Nitrosodiphenylamine	ug/Kg		1200	U		ND		750	U			370		ND	160	U	760	U	
Pentachloronitrobenzene	ug/Kg		410	U		ND		260	U			370					260	U	
Pentachlorophenol	ug/Kg	800	410	U		ND		260	U	ND		370		ND	270	U	260	U	
Phenanthrene	ug/Kg	100,000	520			640		260	U	ND		260		ND	160	U	260	U	
Phenol	ug/Kg	330	410	U		ND		260	U	ND		260		ND	270	U	260	U	
Pyrene	ug/Kg	100,000	530			960		260	U	ND		260		ND	270	U	260	U	
Pyridine	ug/Kg		410	U		ND		260	U			370					260	U	

Table 8 - Endpoint Soil Samples - SVOC
Huxley Envelope Site

Phoenix Environmental Laboratories, Inc.														
587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102		Lab Id Coil Date Client Id Depth Matrix	BB97048 6/11/12 WS I1 30 30 ft Soil		BB97045 6/11/12 WS I3 25 25ft Soil		BB97044 6/11/12 WS J4 25 25 ft Soil		BB92740 5/31/12 WSK3 20 20 ft Soil		BB97047 6/11/12 WS K4 30 30 ft Soil		BB92739 5/31/12 WSK5 20 20 ft Soil	
Project Id : 145 WEST														
Semivolatiles By SW 8270		375 UNREST. SCO	Result		Result		Result		Result		Result		Result	
Units			Qual		Qual		Qual		Qual		Qual		Qual	
1,1-Biphenyl			280	U	290	U	280	U			260	U		
1,2,4,5-Tetrachlorobenzene			280	U	290	U	280	U	270	U	260	U	270	U
1,2,4-Trichlorobenzene									270	U			270	U
1,2-Dichlorobenzene		1,100							270	U			270	U
1,3-Dichlorobenzene		2,400							270	U			270	U
1,4-Dichlorobenzene		1,800							270	U			270	U
2,3,4,6-tetrachlorophenol			280	U	290	U	280	U			260	U		
2,4,5-Trichlorophenol			280	U	290	U	280	U	270	U	260	U	270	U
2,4,6-Trichlorophenol			160	U	160	U	160	U	270	U	150	U	270	U
2,4-Dichlorophenol			160	U	160	U	160	U	270	U	150	U	270	U
2,4-Dimethylphenol			280	U	290	U	280	U	270	U	260	U	270	U
2,4-Dinitrophenol			280	U	290	U	280	U	430	U	260	U	440	U
2,4-Dinitrotoluene			160	U	160	U	160	U	270	U	150	U	270	U
2,6-Dinitrotoluene			160	U	160	U	160	U	270	U	150	U	270	U
2-Chloronaphthalene			280	U	290	U	280	U	270	U	260	U	270	U
2-Chlorophenol			280	U	290	U	280	U	270	U	260	U	270	U
2-Methylnaphthalene			280	U	290	U	280	U	270	U	260	U	270	U
2-Methylphenol (o-cresol)		330	280	U	290	U	280	U	270	U	260	U	270	U
2-Nitroaniline			2000	U	2100	U	2000	U	430	U	1900	U	440	U
2-Nitrophenol			280	U	290	U	280	U	270	U	260	U	270	U
3&4-Methylphenol (m&p-cr)			280	U	290	U	280	U	270	U	260	U	270	U
3,3'-Dichlorobenzidine			160	U	160	U	160	U	530	U	150	U	550	U
3-Nitroaniline			2000	U	2100	U	2000	U	430	U	1900	U	440	U
4,6-Dinitro-2-methylphenol			280	U	290	U	280	U	270	U	260	U	270	U
4-Bromophenyl phenyl ethe			280	U	290	U	280	U	270	U	260	U	270	U
4-Chloro-3-methylphenol			280	U	290	U	280	U	270	U	260	U	270	U
4-Chloroaniline			790	U	820	U	800	U	530	U	740	U	550	U
4-Chlorophenyl phenyl ethe			280	U	290	U	280	U	270	U	260	U	270	U
4-Nitroaniline			2000	U	2100	U	2000	U	430	U	1900	U	440	U
4-Nitrophenol			2000	U	2100	U	2000	U	770	U	1900	U	790	U
Acenaphthene			280	U	290	U	280	U	270	U	260	U	270	U
Acenaphthylene		100,000	160	U	160	U	160	U	270	U	150	U	270	U
Acetophenone			280	U	290	U	280	U	270	U	260	U	270	U
Aniline									770	U			790	U
Anthracene		100,000	280	U	290	U	280	U	270	U	260	U	270	U
Atrazine			160	U	160	U	160	U			150	U		
Azobenzene									270	U			270	U
Benz(a)anthracene		1,000	280	U	290	U	280	U	270	U	260	U	270	U
Benzaldehyde			280	U	290	U	280	U			260	U		
Benzidine		1,000							270	U			270	U
Benzo(a)pyrene		1,000	160	U	160	U	160	U	270	U	150	U	270	U
Benzo(b)fluoranthene		100,000	280	U	290	U	280	U	270	U	260	U	270	U
Benzo(ghi)perylene		800	280	U	290	U	280	U	270	U	260	U	270	U
Benzo(k)fluoranthene			280	U	290	U	280	U	270	U	260	U	270	U
Benzoic acid									770	U			790	U
Benzyl butyl phthalate			280	U	290	U	280	U	270	U	260	U	270	U
Bis(2-chloroethoxy)methan			280	U	290	U	280	U	270	U	260	U	270	U
Bis(2-chloroethyl)ether			160	U	160	U	160	U	270	U	150	U	270	U
Bis(2-chloroisopropyl)ether			280	U	290	U	280	U	270	U	260	U	270	U
Bis(2-ethylhexyl)phthalate			280	U	290	U	280	U	270	U	260	U	270	U
Carbazole			280	U	290	U	280	U	770	U	260	U	790	U
Caprolactam			2000	U	2100	U	2000	U			1900	U		
Chrysene			280	U	290	U	280	U	270	U	260	U	270	U
Dibenz(a,h)anthracene		330	160	U	160	U	160	U	270	U	150	U	270	U
Dibenzofuran			280	U	290	U	280	U	270	U	260	U	270	U
Diethyl phthalate			280	U	290	U	280	U	270	U	260	U	270	U
Dimethylphthalate			280	U	290	U	280	U	270	U	260	U	270	U
Di-n-butylphthalate			280	U	290	U	280	U	270	U	260	U	270	U
Di-n-octylphthalate			280	U	290	U	280	U	270	U	260	U	270	U
Fluoranthene		100,000	280	U	290	U	280	U	270	U	260	U	270	U
Fluorene		30,000	280	U	290	U	280	U	270	U	260	U	270	U
Hexachlorobenzene			160	U	160	U	160	U	270	U	150	U	270	U
Hexachlorobutadiene			280	U	290	U	280	U	270	U	260	U	270	U
Hexachlorocyclopentadiene			280	U	290	U	280	U	270	U	260	U	270	U
Hexachloroethane			160	U	160	U	160	U	270	U	150	U	270	U
Indeno(1,2,3-cd)pyrene		500	280	U	290	U	280	U	270	U	260	U	270	U
Isophorone			160	U	160	U	160	U	270	U	150	U	270	U
Naphthalene		12,000	280	U	290	U	280	U	270	U	260	U	270	U
Nitrobenzene			160	U	160	U	160	U	270	U	150	U	270	U
N-Nitrosodimethylamine			280	U	290	U	280	U	270	U	260	U	270	U
N-Nitrosodi-n-propylamine			160	U	160	U	160	U	270	U	150	U	270	U
N-Nitrosodiphenylamine			160	U	160	U	160	U	770	U	150	U	790	U
Pentachloronitrobenzene									270	U			270	U
Pentachlorophenol		800	280	U	290	U	280	U	270	U	260	U	270	U
Phenanthrene		100,000	160	U	160	U	160	U	270	U	150	U	270	U
Phenol		330	280	U	290	U	280	U	270	U	260	U	270	U
Pyrene		100,000	280	U	290	U	280	U	270	U	260	U	270	U
Pyridine									270	U			270	U

Qualifiers
Blank = Not analyzed

RL Exceeds Criteria:

Table 9 - Endpoint Soil Samples Metals Analysis

Huxley Envelope Site

Project Id : 145 WEST	Lab Id Coll Date Client Id Matrix	BB93968 6/4/12 WS A1 20 FT Soil	BB95366 6/6/12 WS B2 25 Soil	BB91709 5/25/12 WS-C2 30 FT Soil	BB96204 6/7/12 WS-C3A 30 FT Soil	BB95363 6/6/12 WS D2-25 Soil	BB96193 6/7/12 WS-E2 30 FT Soil						
		375 UNREST.											
Metals, Total	Units	SCO	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Aluminum	mg/Kg		18,400	N	16,100		6,670	N	7,680		6,010		6,930
Antimony	mg/Kg		3.0	U	BDL		1.7	U	BRL		BDL		BRL
Arsenic	mg/Kg	13	12.4		18.2		0.92		1.95		1.56		1.69
Barium	mg/Kg	350	93.5	N	163		34.7		63.2		114		49.8
Beryllium	mg/Kg	7.2	1.02		0.55		0.58		0.55		BDL		0.69
Cadmium	mg/Kg	2.5	0.60	U	BDL		0.34	U	BRL		BDL		BRL
Calcium	mg/Kg		4,020	N	2,930		357		304		159		354
Chromium	mg/Kg		34		37.8		21		19.8		14.9		35.3
Cobalt	mg/Kg		12.4		11.3		8.81		9.98		5.02		10.9
Copper	mg/kg	50	37.8		76.4		22.2		22.5		15.1		28
Iron	mg/Kg		41,000	N	32,200		35,900	*	44,200		18,100		40,400
Lead	mg/Kg	63	132	N*	270		10.5		6.05		4.51		13
Magnesium	mg/Kg		8,260	N	7,360		1,700		1,710		1,420		1,900
Manganese	mg/Kg	1,600	1,180	N	499		185		308		108		242
Mercury	mg/Kg	0.18	0.29		1.25		0.1		BRL		BDL		BRL
Nickel	mg/Kg	30	31.1		29.2		14.5		21.7		10.2		23.5
Potassium	mg/Kg		3,970	N	3,300		1,780		1,520		1,290		1,970
Selenium	mg/Kg	3.9	2.4	U	BDL		1.4	U	BRL		BDL		BRL
Silver	mg/Kg	2	0.60	U	BDL		0.34	U	BRL		BDL		BRL
Sodium	mg/Kg		6,480	N	4,930		796		681		660		448
Thallium	mg/Kg		2.4	U	BDL		1.4	U	BRL		BDL		BRL
Vanadium	mg/Kg		43.3		42.9		33.6		32.6		24		44
Zinc	mg/Kg	109	113	N	185		48.2	*	46.8		26.9		54.9
	= Exceeds Criteria												
	= Result Detected												

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Project Id :	Lab Id	BB97046	BB96195	BB93973	BB97040	BB97048	BB97045
145 WEST	Coll Date	6/11/12	6/7/12	6/1/12	6/11/12	6/11/12	6/11/12
	Client Id	WS F1 30	WS-F2 30 FT	WS H1 20-22	WS H2-25	WS I-1 30	WS I3 25
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil

 = Exceeds Criteria
 = Result Detected

Table 9 - Endpoint Soil Samples Metals Analysis

Huxley Envelope Site

Project Id :	Lab Id	BB97044	BB92740	BB97047	BB92739
145 WEST	Coll Date	6/11/12	5/31/12	6/11/12	5/31/12
	Client Id	WS J4 25	WSK3 20	WS K4 30	WSK5 20
	Matrix	Soil	Soil	Soil	Soil

Metals, Total	Units	375	Result	Qual	Result	Qual	Result	Qual	Result	Qual
		UNREST. SCO								
Aluminum	mg/Kg		5,070		3,860	N	4,340		8,080	N
Antimony	mg/Kg		1.9	U	1.9	U	1.8	U	1.9	U
Arsenic	mg/Kg	13	1.95		1.58		4.21		2.91	
Barium	mg/Kg	350	39.2		18.5		30.6		45.5	
Beryllium	mg/Kg	7.2	0.187		0.256	B	0.223	B	0.71	
Cadmium	mg/Kg	2.5	0.38		0.38	U	0.37	U	0.38	U
Calcium	mg/Kg		815		700	N	1,660	*	1,010	N
Chromium	mg/Kg		10.4		10.9		12.6		27.5	
Cobalt	mg/Kg		4.1		7.79		4.07		8.57	
Copper	mg/kg	50	7.64		5.42		16.6		21.6	
Iron	mg/Kg		6,310		7,400	N	13,000		42,400	N
Lead	mg/Kg	63	3		3.09	*	4.6		0.418	B*
Magnesium	mg/Kg		1,800		1,670	N	2,090		2,200	N
Manganese	mg/Kg	1,600	54		92.3		109	*	223	
Mercury	mg/Kg	0.18	0.08		0.08	U	0.08	U	0.07	U
Nickel	mg/Kg	30	10.1		9.12		6.77		16.2	
Potassium	mg/Kg		647		723	N	818	N	1,610	N
Selenium	mg/Kg	3.9	1.5		1.5	U	1.5	U	1.5	U
Silver	mg/Kg	2	0.126		0.38	U	0.37	U	0.38	U
Sodium	mg/Kg		77		208		197	N	169	
Thallium	mg/Kg		1.5		1.5	U	1.5	U	1.5	U
Vanadium	mg/Kg		14.1		11.6		42.3		40.9	
Zinc	mg/Kg	109	29.4		23.5		20.5		52.4	

= Exceeds Criteria
 = Result Detected

Table 10 - Endpoint Soil Samples PCB Analysis
Huxley Envelope Site

Project Id:	Lab Id		BB93968		BB95366		BB91709		BB96204		BB95363		BB96193		BB97046		BB96195
145 WEST	Coll Date		6/4/12		6/6/12		5/25/12		6/7/12		6/6/12		6/7/12		6/11/12		6/7/12
	Client Id		WS A1 20 FT		WS B2 25		WS-C2 30 FT		WS-C3A 30 FT		WS D2-25		WS-E2 30 FT		WS F1 30		WS-F2 30 FT
	Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil
	Units	375															
	SCO	UNREST.															
			Result	Qual	Result		Result	Qual	Result		RL	Result	Result		Result	Qual	Result
PCB-1016	ug/Kg	100	58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1221	ug/Kg	100	58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1232	ug/Kg	100	58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1242	ug/Kg	100	58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1248	ug/Kg	100	58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1254	ug/Kg	100	58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1260	ug/Kg	100	58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1262	ug/Kg		58	U	ND		95	U	ND		370	ND	ND		98	U	ND
PCB-1268	ug/Kg		58	U	ND		95	U	ND		370	ND	ND		98	U	ND

Table 10 - Endpoint Soil Samples PCB Analysis
Huxley Envelope Site

2 of 2

Project Id:	Lab Id		BB93973	BB97040		BB97048	BB97045		BB97044	BB92740		BB97047	BB92739				
145 WEST	Coll Date		6/1/12	6/11/12		6/11/12	6/11/12		6/11/12	5/31/12		6/11/12	5/31/12				
	Client Id		WSH1 20-22	WS H2-25		WS I-1 30	WS I3 25		WS J4 25	WSK3 20		WS K4 30	WSK5 20				
	Matrix		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil				
	Units	375															
	SCO	UNREST.															
			Result	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Qual	
PCB-1016	ug/Kg	100	NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1221	ug/Kg	100	NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1232	ug/Kg	100	NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1242	ug/Kg	100	NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1248	ug/Kg	100	NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1254	ug/Kg	100	NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1260	ug/Kg	100	NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1262	ug/Kg		NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U
PCB-1268	ug/Kg		NA	100	U	98	U	100	U	99	U	96	U	95	U	98	U

Table 11 - Endpoint Soil Samples Pesticides/Herbicides Analysis

Huxley Envelope Site

	Lab Id Date Client Id Matrix		BB93968 6/4/12 WS A1 20 FT Soil		BB95366 6/6/12 WS B2 25 Soil		BB91709 5/25/12 WS-C2 30 FT Soil		BB96204 6/7/12 WS-C3A 30 FT Soil		BB95363 6/6/12 WS D2-25 Soil		BB96193 6/7/12 WS-E2 30 FT Soil	
Project Id : 145 WEST														
Pesticides - Soil By SW8081	Units	375 UNREST.												
	SCO		Result	Qual	Result	Result	Qual	Result		Result	Result	Result		
	4,4' -DDD	ug/Kg	3.3	3.3	U	ND	6.8	U	ND	ND	ND	ND		ND
	4,4' -DDE	ug/Kg	3.3	3.3	U	ND	6.8	U	ND	ND	ND	ND		ND
	4,4' -DDT	ug/Kg	3.3	3.3	U	ND	6.8	U	ND	ND	ND	ND		ND
	a-BHC	ug/Kg	20	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	a-Chlordane	ug/Kg	94	5.8	U	ND	9.4	U	ND	ND	ND	ND		ND
	Aldrin	ug/Kg	5	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	b-BHC	ug/Kg	36	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	Chlordane	ug/Kg		35	U	ND	56	U	ND	ND	ND	ND		ND
	d-BHC	ug/Kg	40	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	Dieldrin	ug/Kg	5	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	Endosulfan I	ug/Kg	2,400	5.8	U	ND	9.4	U	ND	ND	ND	ND		ND
	Endosulfan II	ug/Kg	2,400	5.8	U	ND	9.4	U	ND	ND	ND	ND		ND
	Endosulfan sulfate	ug/Kg	2,400	5.8	U	ND	9.4	U	ND	ND	ND	ND		ND
	Endrin	ug/Kg	14	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	Endrin aldehyde	ug/Kg		5.8	U	ND	9.4	U	ND	ND	ND	ND		ND
	Endrin ketone	ug/Kg		2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	g-BHC	ug/Kg	100	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
	g-Chlordane	ug/Kg		5.8	U		9.4	U						
	Heptachlor	ug/Kg	42	2.9	U	ND	4.7	U	ND	ND	ND	ND		ND
Heptachlor epoxide	ug/Kg		2.9	U	ND	4.7	U	ND	ND	ND	ND		ND	
Methoxychlor	ug/Kg		12	U	ND	19	U	ND	ND	ND	ND		ND	
Toxaphene	ug/Kg		56	U	ND	90	U	ND	ND	ND	ND		ND	
Chlorinated Herbicides By SW8151	Units	375 UNREST.												
	SCO													
	2,4,5-T	ug/Kg		74	U	ND	48	U	ND	ND	ND	ND		ND
	2,4,5-TP (Silvex)	ug/Kg	3,800	74	U	ND	48	U	ND	ND	ND	ND		ND
	2,4-D	ug/Kg		74	U	ND	48	U	ND	ND	ND	ND		ND
	2,4-DB	ug/Kg		740	U	ND	480	U	ND	ND	ND	ND		ND
	Dalapon	ug/Kg		74	U	ND	48	U	ND	ND	ND	ND		ND
	Dicamba	ug/Kg		150	U	ND	95	U	ND	ND	ND	ND		ND
	Dichloroprop	ug/Kg		74	U	ND	48	U	ND	ND	ND	ND		ND
	Dinoseb	ug/Kg		150	U	ND	95	U	ND	ND	ND	ND		ND

RL Exceeds Criteria:

Table 11 - Endpoint Soil Samples Pesticides/Herbicides Analysis

Huxley Envelope Site

	Lab Id		BB97046		BB96195		BB97040		BB97048		BB97045		BB97044	
	Date		6/11/12		6/7/12		6/11/12		6/11/12		6/11/12		6/11/12	
	Client Id		WS F1 30		WS-F2 30 FT		WS H2-25		WS I-1 30		WS I3 25		WS J4 25	
	Matrix		Soil		Soil		Soil		Soil		Soil		Soil	
Project Id : 145 WEST														
Pesticides - Soil By SW8081		375												
		UNREST.												
	Units	SCO	Result	Qual	Result	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
4,4' -DDD	ug/Kg	3.3	2.8	U	ND	2.9	U	2.8	U	2.9	U	2.8	U	
4,4' -DDE	ug/Kg	3.3	2.8	U	ND	2.9	U	2.8	U	2.9	U	2.8	U	
4,4' -DDT	ug/Kg	3.3	2.8	U	ND	2.9	U	2.8	U	2.9	U	2.8	U	
a-BHC	ug/Kg	20	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
a-Chlordane	ug/Kg	94	3.9	U	ND	4.0	U	3.9	U	4.0	U	3.9	U	
Aldrin	ug/Kg	5	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
b-BHC	ug/Kg	36	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
Chlordane	ug/Kg		24	U	ND	24	U	24	U	24	U	24	U	
d-BHC	ug/Kg	40	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
Dieldrin	ug/Kg	5	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
Endosulfan I	ug/Kg	2,400	3.9	U	ND	4.0	U	3.9	U	4.0	U	3.9	U	
Endosulfan II	ug/Kg	2,400	3.9	U	ND	4.0	U	3.9	U	4.0	U	3.9	U	
Endosulfan sulfate	ug/Kg	2,400	3.9	U	ND	4.0	U	3.9	U	4.0	U	3.9	U	
Endrin	ug/Kg	14	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
Endrin aldehyde	ug/Kg		3.9	U	ND	4.0	U	3.9	U	4.0	U	3.9	U	
Endrin ketone	ug/Kg		2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
g-BHC	ug/Kg	100	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
g-Chlordane	ug/Kg		3.9	U		4.0	U	3.9	U	4.0	U	3.9	U	
Heptachlor	ug/Kg	42	2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
Heptachlor epoxide	ug/Kg		2.0	U	ND	2.0	U	2.0	U	2.0	U	2.0	U	
Methoxychlor	ug/Kg		7.9	U	ND	8.1	U	7.9	U	8.1	U	7.9	U	
Toxaphene	ug/Kg		38	U	ND	39	U	38	U	39	U	38	U	
Chlorinated Herbicides By SW8151		375												
		UNREST.												
	Units	SCO												
2,4,5-T	ug/Kg		49	U	ND	50	U	50	U	52	U	50	U	
2,4,5-TP (Silvex)	ug/Kg	3,800	49	U	ND	50	U	50	U	52	U	50	U	
2,4-D	ug/Kg		49	U	ND	50	U	50	U	52	U	50	U	
2,4-DB	ug/Kg		490	U	ND	500	U	500	U	520	U	500	U	
Dalapon	ug/Kg		49	U	ND	50	U	50	U	52	U	50	U	
Dicamba	ug/Kg		98	U	ND	100	U	100	U	100	U	99	U	
Dichloroprop	ug/Kg		49	U	ND	50	U	50	U	52	U	50	U	
Dinoseb	ug/Kg		98	U	ND	100	U	100	U	100	U	99	U	

RL Exceeds Criteria:

Table 11 - Endpoint Soil Samples Pesticides/Herbicides Analysis

3 of 3

Huxley Envelope Site

		Lab Id	BB92740		BB97047		BB92739	
		Date	5/31/12		6/11/12		5/31/12	
		Client Id	WSK3 20		WS K4 30		WSK5 20	
		Matrix	Soil		Soil		Soil	
Project Id : 145 WEST								
			375					
Pesticides - Soil By SW8081			UNREST.					
	Units	SCO	Result	Qual	Result	Qual	Result	Qual
4,4' -DDD	ug/Kg	3.3	3.3	U	2.7	U	3.3	U
4,4' -DDE	ug/Kg	3.3	3.3	U	2.7	U	3.3	U
4,4' -DDT	ug/Kg	3.3	3.3	U	2.7	U	3.3	U
a-BHC	ug/Kg	20	4.8	U	1.9	U	4.9	U
a-Chlordane	ug/Kg	94	9.6	U	3.8	U	9.8	U
Aldrin	ug/Kg	5	4.8	U	1.9	U	4.9	U
b-BHC	ug/Kg	36	4.8	U	1.9	U	4.9	U
Chlordane	ug/Kg		58	U	23	U	59	U
d-BHC	ug/Kg	40	4.8	U	1.9	U	4.9	U
Dieldrin	ug/Kg	5	4.8	U	1.9	U	4.9	U
Endosulfan I	ug/Kg	2,400	9.6	U	3.8	U	9.8	U
Endosulfan II	ug/Kg	2,400	9.6	U	3.8	U	9.8	U
Endosulfan sulfate	ug/Kg	2,400	9.6	U	3.8	U	9.8	U
Endrin	ug/Kg	14	4.8	U	1.9	U	4.9	U
Endrin aldehyde	ug/Kg		9.6	U	3.8	U	9.8	U
Endrin ketone	ug/Kg		4.8	U	1.9	U	4.9	U
g-BHC	ug/Kg	100	4.8	U	1.9	U	4.9	U
g-Chlordane	ug/Kg		9.6	U	3.8	U	9.8	U
Heptachlor	ug/Kg	42	4.8	U	1.9	U	4.9	U
Heptachlor epoxide	ug/Kg		4.8	U	1.9	U	4.9	U
Methoxychlor	ug/Kg		19	U	7.6	U	20	U
Toxaphene	ug/Kg		92	U	36	U	94	U
			375					
Chlorinated Herbicides By SW8151			UNREST.					
	Units	SCO						
2,4,5-T	ug/Kg		49	U	48	U	49	U
2,4,5-TP (Silvex)	ug/Kg	3,800	49	U	48	U	49	U
2,4-D	ug/Kg		49	U	48	U	49	U
2,4-DB	ug/Kg		490	U	480	U	490	U
Dalapon	ug/Kg		49	U	48	U	49	U
Dicamba	ug/Kg		98	U	95	U	97	U
Dichloroprop	ug/Kg		49	U	48	U	49	U
Dinoseb	ug/Kg		98	U	95	U	97	U

RL Exceeds Criteria:

Appendix F

Laboratory Analytical Reports

(Provided on CD)



Wednesday, June 06, 2012

Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST
Sample ID#s: BB88916 - BB88919

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

June 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/21/12	0:00
05/22/12	17:00

Laboratory Data

SDG ID: GBB88916
Phoenix ID: BB88916

Project ID: 145 WEST

Client ID: WS J3

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	05/24/12		LK	6010
Aluminum	7840 N	38	mg/Kg	05/24/12		LK	6010
Arsenic	11.7	0.76	mg/Kg	05/24/12		LK	6010
Barium	57.5	0.76	mg/Kg	05/24/12		LK	6010
Beryllium	0.204 B	0.31	mg/Kg	05/24/12		LK	6010
Calcium	4530 N	38	mg/Kg	05/24/12		LK	6010
Cadmium	< 0.38	0.38	mg/Kg	05/24/12		LK	6010
Cobalt	7.44	0.38	mg/Kg	05/24/12		LK	6010
Chromium	17.4	0.38	mg/Kg	05/24/12		LK	6010
Copper	20.5	0.38	mg/kg	05/24/12		LK	6010
Iron	33800	38	mg/Kg	05/24/12		LK	6010
Mercury	< 0.10	0.10	mg/Kg	05/23/12		RS	SW-7471
Potassium	1200 N	8	mg/Kg	05/24/12		LK	6010
Magnesium	2640 N	3.8	mg/Kg	05/24/12		LK	6010
Manganese	355	3.8	mg/Kg	05/24/12		LK	6010
Sodium	112 N	8	mg/Kg	05/24/12		LK	6010
Nickel	16.4	0.38	mg/Kg	05/24/12		LK	6010
Lead	96.5	0.76	mg/Kg	05/24/12		LK	6010
Antimony	< 1.9	1.9	mg/Kg	05/24/12		LK	6010
Selenium	< 1.5	1.5	mg/Kg	05/29/12		EK	6010
Thallium	< 1.5	1.5	mg/Kg	05/24/12		LK	6010
Total Metals Digest	Completed			05/22/12		AG	SW846 - 3050
Vanadium	19.4	0.38	mg/Kg	05/24/12		LK	6010
Zinc	63.0	0.76	mg/Kg	05/24/12		LK	6010
Percent Solid	84		%	05/22/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/22/12		BB/F	SW3545
Mercury Digestion	Completed			05/23/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	05/29/12		R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	05/29/12		R/J	SW8260
Acetone	11 JS	60	ug/Kg	05/29/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	05/29/12		R/J	SW8260
Benzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Bromoform	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Chloroform	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Dibromochloromethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Dibromoethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260 1P
Dibromomethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	36	ug/Kg	05/29/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	05/29/12		R/J	SW8260
Methylene chloride	4.1 JS	6.0	ug/Kg	05/29/12		R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Styrene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	05/29/12		R/J	SW8260
Toluene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	05/29/12		R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	05/29/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	05/29/12		R/J	70 - 121 %
% Bromofluorobenzene	97		%	05/29/12		R/J	70 - 121 %
% Dibromofluoromethane	98		%	05/29/12		R/J	70 - 121 %
% Toluene-d8	102		%	05/29/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrophenol	ND	430	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	05/23/12		DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	05/23/12		DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	05/23/12		DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	05/23/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	05/23/12		DD	SW 8270
2-Nitroaniline	ND	430	ug/Kg	05/23/12		DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	05/23/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	540	ug/Kg	05/23/12		DD	SW 8270
3-Nitroaniline	ND	430	ug/Kg	05/23/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	270	ug/Kg	05/23/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
4-Chloroaniline	ND	540	ug/Kg	05/23/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	05/23/12		DD	SW 8270
4-Nitroaniline	ND	430	ug/Kg	05/23/12		DD	SW 8270
4-Nitrophenol	ND	790	ug/Kg	05/23/12		DD	SW 8270
Acenaphthene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Acetophenone	ND	270	ug/Kg	05/23/12		DD	SW 8270
Aniline	ND	790	ug/Kg	05/23/12		DD	SW 8270
Anthracene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Azobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Benz(a)anthracene	180 J	270	ug/Kg	05/23/12		DD	SW 8270
Benzidine	ND	270	ug/Kg	05/23/12		DD	SW 8270
Benzo(a)pyrene	140 J	270	ug/Kg	05/23/12		DD	SW 8270
Benzo(b)fluoranthene	190 J	270	ug/Kg	05/23/12		DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Benzoic acid	ND	790	ug/Kg	05/23/12		DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	05/23/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	05/23/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	270	ug/Kg	05/23/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	05/23/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	05/23/12		DD	SW 8270
Carbazole	ND	790	ug/Kg	05/23/12		DD	SW 8270
Chrysene	170 J	270	ug/Kg	05/23/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	05/23/12		DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	05/23/12		DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	05/23/12		DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	05/23/12		DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	05/23/12		DD	SW 8270
Fluoranthene	270 J	270	ug/Kg	05/23/12		DD	SW 8270
Fluorene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	05/23/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Isophorone	ND	270	ug/Kg	05/23/12		DD	SW 8270
Naphthalene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
N-Nitrosodimethylamine	ND	270	ug/Kg	05/23/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	05/23/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	790	ug/Kg	05/23/12		DD	SW 8270
Pentachloronitrobenzene	ND	270	ug/Kg	05/23/12		DD	SW 8270
Pentachlorophenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
Phenanthrene	270	270	ug/Kg	05/23/12		DD	SW 8270
Phenol	ND	270	ug/Kg	05/23/12		DD	SW 8270
Pyrene	300	270	ug/Kg	05/23/12		DD	SW 8270
Pyridine	ND	270	ug/Kg	05/23/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	105		%	05/23/12		DD	19 - 122 %
% 2-Fluorobiphenyl	74		%	05/23/12		DD	19 - 122 %
% 2-Fluorophenol	96		%	05/23/12		DD	19 - 122 %
% Nitrobenzene-d5	83		%	05/23/12		DD	19 - 122 %
% Phenol-d5	95		%	05/23/12		DD	19 - 122 %
% Terphenyl-d14	75		%	05/23/12		DD	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

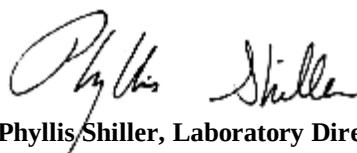
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 06, 2012

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



Analysis Report

June 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/21/12	0:00
05/22/12	17:00

Laboratory Data

SDG ID: GBB88916
Phoenix ID: BB88917

Project ID: 145 WEST

Client ID: WS I3

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	05/24/12		LK	6010
Aluminum	10300 N	40	mg/Kg	05/24/12		LK	6010
Arsenic	4.58	0.79	mg/Kg	05/24/12		LK	6010
Barium	79.8	0.79	mg/Kg	06/01/12		LK	6010
Beryllium	< 0.32	0.32	mg/Kg	05/24/12		LK	6010
Calcium	38900 N	40	mg/Kg	05/24/12		LK	6010
Cadmium	< 0.40	0.40	mg/Kg	05/29/12		EK	6010
Cobalt	10.5	0.40	mg/Kg	06/01/12		LK	6010
Chromium	8.58	0.40	mg/Kg	05/24/12		LK	6010
Copper	76.0	0.40	mg/kg	05/24/12		LK	6010
Iron	27500	40	mg/Kg	05/24/12		LK	6010
Mercury	< 0.07	0.07	mg/Kg	05/23/12		RS	SW-7471
Potassium	1890 N	8	mg/Kg	05/24/12		LK	6010
Magnesium	15500 N	40	mg/Kg	05/24/12		LK	6010
Manganese	433	4.0	mg/Kg	05/24/12		LK	6010
Sodium	1050 N	8	mg/Kg	06/01/12		LK	6010
Nickel	12.7	0.40	mg/Kg	05/24/12		LK	6010
Lead	77.8	0.79	mg/Kg	05/24/12		LK	6010
Antimony	< 2.0	2.0	mg/Kg	05/24/12		LK	6010
Selenium	< 1.6	1.6	mg/Kg	06/01/12		LK	6010
Thallium	< 1.6	1.6	mg/Kg	05/24/12		LK	6010
Total Metals Digest	Completed			05/22/12		AG	SW846 - 3050
Vanadium	64.4	0.40	mg/Kg	06/01/12		LK	6010
Zinc	89.4	0.79	mg/Kg	05/24/12		LK	6010
Percent Solid	89		%	05/22/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/22/12		BB/F	SW3545
Mercury Digestion	Completed			05/23/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichlorobenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
2-Hexanone	ND	28	ug/Kg	05/29/12		R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	05/29/12		R/J	SW8260
Acetone	15 JS	56	ug/Kg	05/29/12		R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	05/29/12		R/J	SW8260
Benzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Bromoform	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Chloroform	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Dibromochloromethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Dibromoethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260 1P
Dibromomethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	5.6 JS	34	ug/Kg	05/29/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/29/12		R/J	SW8260
Methylene chloride	3.8 JS	5.6	ug/Kg	05/29/12		R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Styrene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/29/12		R/J	SW8260
Toluene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/29/12		R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	05/29/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	05/29/12		R/J	70 - 121 %
% Bromofluorobenzene	96		%	05/29/12		R/J	70 - 121 %
% Dibromofluoromethane	96		%	05/29/12		R/J	70 - 121 %
% Toluene-d8	105		%	05/29/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/23/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/23/12		DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/23/12		DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrophenol	ND	410	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/23/12		DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/23/12		DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/23/12		DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/23/12		DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	05/23/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/23/12		DD	SW 8270
2-Nitroaniline	ND	410	ug/Kg	05/23/12		DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/23/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	260	ug/Kg	05/23/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	510	ug/Kg	05/23/12		DD	SW 8270
3-Nitroaniline	ND	410	ug/Kg	05/23/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	05/23/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/23/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/23/12		DD	SW 8270	
4-Chloroaniline	ND	510	ug/Kg	05/23/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/23/12		DD	SW 8270	
4-Nitroaniline	ND	410	ug/Kg	05/23/12		DD	SW 8270	
4-Nitrophenol	ND	740	ug/Kg	05/23/12		DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Acetophenone	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Aniline	ND	740	ug/Kg	05/23/12		DD	SW 8270	LO
Anthracene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Azobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270	1
Benz(a)anthracene	360	260	ug/Kg	05/23/12		DD	SW 8270	
Benzidine	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Benzo(a)pyrene	340	260	ug/Kg	05/23/12		DD	SW 8270	
Benzo(b)fluoranthene	480	260	ug/Kg	05/23/12		DD	SW 8270	
Benzo(ghi)perylene	300	260	ug/Kg	05/23/12		DD	SW 8270	
Benzo(k)fluoranthene	150 J	260	ug/Kg	05/23/12		DD	SW 8270	
Benzoic acid	ND	740	ug/Kg	05/23/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Carbazole	ND	740	ug/Kg	05/23/12		DD	SW 8270	
Chrysene	390	260	ug/Kg	05/23/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Fluoranthene	590	260	ug/Kg	05/23/12		DD	SW 8270	
Fluorene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	240 J	260	ug/Kg	05/23/12		DD	SW 8270	
Isophorone	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Naphthalene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/23/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/23/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	740	ug/Kg	05/23/12		DD	SW 8270	
Pentachloronitrobenzene	ND	260	ug/Kg	05/23/12		DD	SW 8270	1
Pentachlorophenol	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Phenanthrene	440	260	ug/Kg	05/23/12		DD	SW 8270	
Phenol	ND	260	ug/Kg	05/23/12		DD	SW 8270	
Pyrene	580	260	ug/Kg	05/23/12		DD	SW 8270	
Pyridine	ND	260	ug/Kg	05/23/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	62		%	05/23/12		DD	19 - 122 %
% 2-Fluorobiphenyl	77		%	05/23/12		DD	19 - 122 %
% 2-Fluorophenol	84		%	05/23/12		DD	19 - 122 %
% Nitrobenzene-d5	85		%	05/23/12		DD	19 - 122 %
% Phenol-d5	91		%	05/23/12		DD	19 - 122 %
% Terphenyl-d14	68		%	05/23/12		DD	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

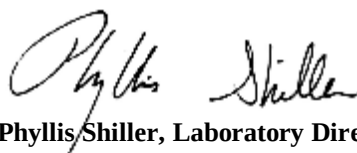
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 06, 2012

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



Analysis Report

June 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
05/21/12 0:00
05/22/12 17:00

Laboratory Data

SDG ID: GBB88916
Phoenix ID: BB88918

Project ID: 145 WEST

Client ID: WS H3

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	05/24/12		LK	6010
Aluminum	8980 N	42	mg/Kg	05/24/12		LK	6010
Arsenic	9.02	0.83	mg/Kg	05/24/12		LK	6010
Barium	206	0.83	mg/Kg	05/24/12		LK	6010
Beryllium	0.322 B	0.33	mg/Kg	05/24/12		LK	6010
Calcium	4000 N	42	mg/Kg	05/24/12		LK	6010
Cadmium	< 0.42	0.42	mg/Kg	05/24/12		LK	6010
Cobalt	7.83	0.42	mg/Kg	05/24/12		LK	6010
Chromium	22.9	0.42	mg/Kg	05/24/12		LK	6010
Copper	156	0.42	mg/kg	05/24/12		LK	6010
Iron	22700	42	mg/Kg	05/24/12		LK	6010
Mercury	0.40	0.08	mg/Kg	05/23/12		RS	SW-7471
Potassium	1810 N	8	mg/Kg	05/24/12		LK	6010
Magnesium	3300 N	4.2	mg/Kg	05/24/12		LK	6010
Manganese	272	4.2	mg/Kg	05/24/12		LK	6010
Sodium	250 N	8	mg/Kg	05/24/12		LK	6010
Nickel	19.6	0.42	mg/Kg	05/24/12		LK	6010
Lead	421	8.3	mg/Kg	05/24/12		LK	6010
Antimony	< 2.1	2.1	mg/Kg	05/24/12		LK	6010
Selenium	< 1.7	1.7	mg/Kg	05/24/12		LK	6010
Thallium	< 1.7	1.7	mg/Kg	05/24/12		LK	6010
Total Metals Digest	Completed			05/22/12		AG	SW846 - 3050
Vanadium	27.7	0.42	mg/Kg	05/24/12		LK	6010
Zinc	364	8.3	mg/Kg	05/24/12		LK	6010
Percent Solid	79		%	05/22/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/22/12		BB/F	SW3545
Mercury Digestion	Completed			05/23/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloropropene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichloropropane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
2,2-Dichloropropane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
2-Chlorotoluene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
2-Hexanone	ND	32	ug/Kg	05/29/12		R/J	SW8260
2-Isopropyltoluene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	05/29/12		R/J	SW8260
Acetone	120 S	63	ug/Kg	05/29/12		R/J	SW8260
Acrylonitrile	ND	13	ug/Kg	05/29/12		R/J	SW8260
Benzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Bromobenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Bromochloromethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Bromoform	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Bromomethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Chlorobenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Chloroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Chloroform	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Chloromethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Dibromochloromethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Dibromoethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260 1P
Dibromomethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Ethylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Hexachlorobutadiene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
m&p-Xylene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	38	ug/Kg	05/29/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	05/29/12		R/J	SW8260
Methylene chloride	5.8 JS	6.3	ug/Kg	05/29/12		R/J	SW8260
Naphthalene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
n-Butylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
n-Propylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
o-Xylene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
p-Isopropyltoluene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
sec-Butylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Styrene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
tert-Butylbenzene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	05/29/12		R/J	SW8260 1
Toluene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	05/29/12		R/J	SW8260
Trichloroethene	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
Vinyl chloride	ND	6.3	ug/Kg	05/29/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	05/29/12		R/J	70 - 121 %
% Bromofluorobenzene	99		%	05/29/12		R/J	70 - 121 %
% Dibromofluoromethane	98		%	05/29/12		R/J	70 - 121 %
% Toluene-d8	103		%	05/29/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrophenol	ND	470	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	05/23/12		DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	05/23/12		DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	05/23/12		DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
2-Methylnaphthalene	200 J	290	ug/Kg	05/23/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	05/23/12		DD	SW 8270
2-Nitroaniline	ND	470	ug/Kg	05/23/12		DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	ug/Kg	05/23/12		DD	SW 8270 1
3,3'-Dichlorobenzidine	ND	580	ug/Kg	05/23/12		DD	SW 8270
3-Nitroaniline	ND	470	ug/Kg	05/23/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	290	ug/Kg	05/23/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
4-Chloroaniline	ND	580	ug/Kg	05/23/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	05/23/12		DD	SW 8270
4-Nitroaniline	ND	470	ug/Kg	05/23/12		DD	SW 8270
4-Nitrophenol	ND	840	ug/Kg	05/23/12		DD	SW 8270
Acenaphthene	450	290	ug/Kg	05/23/12		DD	SW 8270
Acenaphthylene	180 J	290	ug/Kg	05/23/12		DD	SW 8270
Acetophenone	ND	290	ug/Kg	05/23/12		DD	SW 8270
Aniline	ND	840	ug/Kg	05/23/12		DD	SW 8270 LO
Anthracene	1200	290	ug/Kg	05/23/12		DD	SW 8270
Azobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270 1
Benz(a)anthracene	3000	290	ug/Kg	05/23/12		DD	SW 8270
Benzidine	ND	290	ug/Kg	05/23/12		DD	SW 8270
Benzo(a)pyrene	2600	290	ug/Kg	05/23/12		DD	SW 8270
Benzo(b)fluoranthene	3100	290	ug/Kg	05/23/12		DD	SW 8270
Benzo(ghi)perylene	1600	290	ug/Kg	05/23/12		DD	SW 8270
Benzo(k)fluoranthene	940	290	ug/Kg	05/23/12		DD	SW 8270
Benzoic acid	ND	840	ug/Kg	05/23/12		DD	SW 8270 LO
Benzyl butyl phthalate	ND	290	ug/Kg	05/23/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	05/23/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	290	ug/Kg	05/23/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	05/23/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	05/23/12		DD	SW 8270
Carbazole	370 J	840	ug/Kg	05/23/12		DD	SW 8270
Chrysene	2800	290	ug/Kg	05/23/12		DD	SW 8270
Dibenz(a,h)anthracene	570	290	ug/Kg	05/23/12		DD	SW 8270
Dibenzofuran	380	290	ug/Kg	05/23/12		DD	SW 8270
Diethyl phthalate	ND	290	ug/Kg	05/23/12		DD	SW 8270
Dimethylphthalate	ND	290	ug/Kg	05/23/12		DD	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	05/23/12		DD	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	05/23/12		DD	SW 8270
Fluoranthene	5700	290	ug/Kg	05/23/12		DD	SW 8270
Fluorene	590	290	ug/Kg	05/23/12		DD	SW 8270
Hexachlorobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	05/23/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	05/23/12		DD	SW 8270
Hexachloroethane	ND	290	ug/Kg	05/23/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	1500	290	ug/Kg	05/23/12		DD	SW 8270
Isophorone	ND	290	ug/Kg	05/23/12		DD	SW 8270
Naphthalene	430	290	ug/Kg	05/23/12		DD	SW 8270
Nitrobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270
N-Nitrosodimethylamine	ND	290	ug/Kg	05/23/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	05/23/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	840	ug/Kg	05/23/12		DD	SW 8270
Pentachloronitrobenzene	ND	290	ug/Kg	05/23/12		DD	SW 8270 1
Pentachlorophenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
Phenanthrene	5000	290	ug/Kg	05/23/12		DD	SW 8270
Phenol	ND	290	ug/Kg	05/23/12		DD	SW 8270
Pyrene	4800	290	ug/Kg	05/23/12		DD	SW 8270
Pyridine	ND	290	ug/Kg	05/23/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	113		%	05/23/12		DD	19 - 122 %
% 2-Fluorobiphenyl	76		%	05/23/12		DD	19 - 122 %
% 2-Fluorophenol	100		%	05/23/12		DD	19 - 122 %
% Nitrobenzene-d5	89		%	05/23/12		DD	19 - 122 %
% Phenol-d5	98		%	05/23/12		DD	19 - 122 %
% Terphenyl-d14	68		%	05/23/12		DD	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

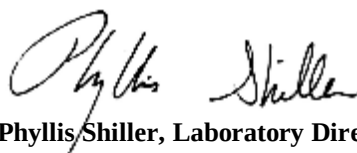
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 06, 2012

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



Analysis Report

June 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/21/12	0:00
05/22/12	17:00

Laboratory Data

SDG ID: GBB88916
Phoenix ID: BB88919

Project ID: 145 WEST

Client ID: WS B3

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	05/24/12		LK	6010
Aluminum	5450 N	32	mg/Kg	05/24/12		LK	6010
Arsenic	4.55	0.65	mg/Kg	05/24/12		LK	6010
Barium	63.4	0.65	mg/Kg	05/24/12		LK	6010
Beryllium	0.149 B	0.26	mg/Kg	05/24/12		LK	6010
Calcium	22300 N	32	mg/Kg	05/24/12		LK	6010
Cadmium	< 0.32	0.32	mg/Kg	05/24/12		LK	6010
Cobalt	3.24	0.32	mg/Kg	05/24/12		LK	6010
Chromium	13.5	0.32	mg/Kg	05/24/12		LK	6010
Copper	55.6	0.32	mg/kg	05/24/12		LK	6010
Iron	13900	32	mg/Kg	05/24/12		LK	6010
Mercury	0.27	0.08	mg/Kg	05/23/12		RS	SW-7471
Potassium	1000 N	6	mg/Kg	05/24/12		LK	6010
Magnesium	9620 N	32	mg/Kg	05/24/12		LK	6010
Manganese	246	3.2	mg/Kg	05/24/12		LK	6010
Sodium	322 N	6	mg/Kg	05/24/12		LK	6010
Nickel	11.7	0.32	mg/Kg	05/24/12		LK	6010
Lead	194	6.5	mg/Kg	05/24/12		LK	6010
Antimony	7.9	1.6	mg/Kg	05/24/12		LK	6010
Selenium	< 1.3	1.3	mg/Kg	05/24/12		LK	6010
Thallium	< 1.3	1.3	mg/Kg	05/24/12		LK	6010
Total Metals Digest	Completed			05/22/12		AG	SW846 - 3050
Vanadium	31.4	0.32	mg/Kg	05/24/12		LK	6010
Zinc	126	0.65	mg/Kg	05/24/12		LK	6010
Percent Solid	94		%	05/22/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/22/12		BB/F	SW3545
Mercury Digestion	Completed			05/23/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,2,4-Trimethylbenzene	0.85 J	5.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichlorobenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
2-Chlorotoluene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
2-Hexanone	ND	27	ug/Kg	05/29/12		R/J	SW8260
2-Isopropyltoluene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	05/29/12		R/J	SW8260
Acetone	5.6 JS	53	ug/Kg	05/29/12		R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	05/29/12		R/J	SW8260
Benzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Bromobenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Bromochloromethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Bromoform	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Bromomethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Chlorobenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Chloroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Chloroform	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Chloromethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Dibromochloromethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Dibromoethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260 1P
Dibromomethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Ethylbenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Hexachlorobutadiene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
m&p-Xylene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	32	ug/Kg	05/29/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/29/12		R/J	SW8260
Methylene chloride	6.5 S	5.3	ug/Kg	05/29/12		R/J	SW8260
Naphthalene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
n-Butylbenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
n-Propylbenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
o-Xylene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
p-Isopropyltoluene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
sec-Butylbenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Styrene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
tert-Butylbenzene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/29/12		R/J	SW8260
Toluene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/29/12		R/J	SW8260
Trichloroethene	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
Vinyl chloride	ND	5.3	ug/Kg	05/29/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	104		%	05/29/12		R/J	70 - 121 %
% Bromofluorobenzene	91		%	05/29/12		R/J	70 - 121 %
% Dibromofluoromethane	98		%	05/29/12		R/J	70 - 121 %
% Toluene-d8	106		%	05/29/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	05/23/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	05/23/12		DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	05/23/12		DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrophenol	ND	390	ug/Kg	05/23/12		DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	05/23/12		DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	05/23/12		DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	05/23/12		DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	05/23/12		DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	05/23/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	05/23/12		DD	SW 8270
2-Nitroaniline	ND	390	ug/Kg	05/23/12		DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	05/23/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	240	ug/Kg	05/23/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	490	ug/Kg	05/23/12		DD	SW 8270
3-Nitroaniline	ND	390	ug/Kg	05/23/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	240	ug/Kg	05/23/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	240	ug/Kg	05/23/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	240	ug/Kg	05/23/12		DD	SW 8270	
4-Chloroaniline	ND	490	ug/Kg	05/23/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	05/23/12		DD	SW 8270	
4-Nitroaniline	ND	390	ug/Kg	05/23/12		DD	SW 8270	
4-Nitrophenol	ND	710	ug/Kg	05/23/12		DD	SW 8270	
Acenaphthene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Acenaphthylene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Acetophenone	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Aniline	ND	710	ug/Kg	05/23/12		DD	SW 8270	LO
Anthracene	170 J	240	ug/Kg	05/23/12		DD	SW 8270	
Azobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270	1
Benz(a)anthracene	570	240	ug/Kg	05/23/12		DD	SW 8270	
Benzidine	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Benzo(a)pyrene	560	240	ug/Kg	05/23/12		DD	SW 8270	
Benzo(b)fluoranthene	790	240	ug/Kg	05/23/12		DD	SW 8270	
Benzo(ghi)perylene	250	240	ug/Kg	05/23/12		DD	SW 8270	
Benzo(k)fluoranthene	230 J	240	ug/Kg	05/23/12		DD	SW 8270	
Benzoic acid	ND	710	ug/Kg	05/23/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Carbazole	ND	710	ug/Kg	05/23/12		DD	SW 8270	
Chrysene	550	240	ug/Kg	05/23/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Dibenzofuran	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Diethyl phthalate	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Dimethylphthalate	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Di-n-butylphthalate	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Di-n-octylphthalate	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Fluoranthene	840	240	ug/Kg	05/23/12		DD	SW 8270	
Fluorene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Hexachlorobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Hexachlorobutadiene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Hexachloroethane	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	190 J	240	ug/Kg	05/23/12		DD	SW 8270	
Isophorone	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Naphthalene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Nitrobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	240	ug/Kg	05/23/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	05/23/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	710	ug/Kg	05/23/12		DD	SW 8270	
Pentachloronitrobenzene	ND	240	ug/Kg	05/23/12		DD	SW 8270	1
Pentachlorophenol	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Phenanthrene	710	240	ug/Kg	05/23/12		DD	SW 8270	
Phenol	ND	240	ug/Kg	05/23/12		DD	SW 8270	
Pyrene	810	240	ug/Kg	05/23/12		DD	SW 8270	
Pyridine	ND	240	ug/Kg	05/23/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	86		%	05/23/12		DD	19 - 122 %
% 2-Fluorobiphenyl	73		%	05/23/12		DD	19 - 122 %
% 2-Fluorophenol	85		%	05/23/12		DD	19 - 122 %
% Nitrobenzene-d5	77		%	05/23/12		DD	19 - 122 %
% Phenol-d5	82		%	05/23/12		DD	19 - 122 %
% Terphenyl-d14	62		%	05/23/12		DD	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

Comments:

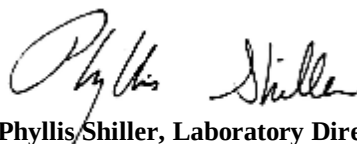
**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 06, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Monday, June 11, 2012

Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST ST
Sample ID#s: BB91705 - BB91714

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/25/12	8:45
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91705

Project ID: 145 WEST ST

Client ID: WS-I2

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/01/12		EK	6010
Aluminum	6730 N	41	mg/Kg	06/01/12		EK	6010
Arsenic	3.86	0.81	mg/Kg	06/01/12		EK	6010
Barium	76.7	0.81	mg/Kg	06/01/12		EK	6010
Beryllium	0.33	0.32	mg/Kg	06/01/12		EK	6010
Calcium	7310	4.1	mg/Kg	06/01/12		EK	6010
Cadmium	0.271 B	0.41	mg/Kg	06/01/12		EK	6010
Cobalt	5.41	0.41	mg/Kg	06/01/12		EK	6010
Chromium	17.2	0.41	mg/Kg	06/01/12		EK	6010
Copper	30.0	0.41	mg/kg	06/01/12		EK	6010
Iron	24600 *	41	mg/Kg	06/01/12		EK	6010
Mercury	0.29	0.07	mg/Kg	06/01/12		RS	SW-7471
Potassium	1010	81	mg/Kg	06/01/12		EK	6010
Magnesium	2490	4.1	mg/Kg	06/01/12		EK	6010
Manganese	307	4.1	mg/Kg	06/01/12		EK	6010
Sodium	130	8	mg/Kg	06/01/12		EK	6010
Nickel	12.4	0.41	mg/Kg	06/01/12		EK	6010
Lead	158	0.81	mg/Kg	06/01/12		EK	6010
Antimony	< 2.0	2.0	mg/Kg	06/01/12		EK	6010
Selenium	< 1.6	1.6	mg/Kg	06/01/12		EK	6010
Thallium	< 1.6	1.6	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	18.7	0.41	mg/Kg	06/01/12		EK	6010
Zinc	302 *	8.1	mg/Kg	06/01/12		EK	6010
Percent Solid	80		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,1,1-Trichloroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,1,2-Trichloroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethene	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloropropene	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichlorobenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloropropane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichlorobenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichloropropane	ND	310	ug/Kg	05/31/12		R/J	SW8260
1,4-Dichlorobenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
2,2-Dichloropropane	ND	310	ug/Kg	05/31/12		R/J	SW8260
2-Chlorotoluene	ND	310	ug/Kg	05/31/12		R/J	SW8260
2-Hexanone	ND	1600	ug/Kg	05/31/12		R/J	SW8260
2-Isopropyltoluene	98 J	310	ug/Kg	05/31/12		R/J	SW8260 1
4-Chlorotoluene	ND	310	ug/Kg	05/31/12		R/J	SW8260
4-Methyl-2-pentanone	ND	1600	ug/Kg	05/31/12		R/J	SW8260
Acetone	ND	3100	ug/Kg	05/31/12		R/J	SW8260 B
Acrylonitrile	ND	630	ug/Kg	05/31/12		R/J	SW8260
Benzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Bromobenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Bromochloromethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Bromodichloromethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Bromoform	ND	310	ug/Kg	05/31/12		R/J	SW8260
Bromomethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Carbon Disulfide	ND	310	ug/Kg	05/31/12		R/J	SW8260
Carbon tetrachloride	ND	310	ug/Kg	05/31/12		R/J	SW8260
Chlorobenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Chloroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Chloroform	ND	310	ug/Kg	05/31/12		R/J	SW8260
Chloromethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	310	ug/Kg	05/31/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Dibromochloromethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Dibromoethane	ND	310	ug/Kg	05/31/12		R/J	SW8260 1P
Dibromomethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Dichlorodifluoromethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Ethylbenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Hexachlorobutadiene	ND	310	ug/Kg	05/31/12		R/J	SW8260 1P
Isopropylbenzene	86 J	310	ug/Kg	05/31/12		R/J	SW8260
m&p-Xylene	ND	310	ug/Kg	05/31/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	1900	ug/Kg	05/31/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	630	ug/Kg	05/31/12		R/J	SW8260
Methylene chloride	210 JS	310	ug/Kg	05/31/12		R/J	SW8260 B
Naphthalene	500	310	ug/Kg	05/31/12		R/J	SW8260
n-Butylbenzene	380	310	ug/Kg	05/31/12		R/J	SW8260
n-Propylbenzene	190 J	310	ug/Kg	05/31/12		R/J	SW8260
o-Xylene	ND	310	ug/Kg	05/31/12		R/J	SW8260
p-Isopropyltoluene	ND	310	ug/Kg	05/31/12		R/J	SW8260
sec-Butylbenzene	470	310	ug/Kg	05/31/12		R/J	SW8260
Styrene	ND	310	ug/Kg	05/31/12		R/J	SW8260
tert-Butylbenzene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Tetrachloroethene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	630	ug/Kg	05/31/12		R/J	SW8260 1
Toluene	ND	310	ug/Kg	05/31/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	310	ug/Kg	05/31/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	310	ug/Kg	05/31/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	630	ug/Kg	05/31/12		R/J	SW8260
Trichloroethene	ND	310	ug/Kg	05/31/12		R/J	SW8260
Trichlorofluoromethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Trichlorotrifluoroethane	ND	310	ug/Kg	05/31/12		R/J	SW8260
Vinyl chloride	ND	310	ug/Kg	05/31/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	05/31/12		R/J	70 - 121 %
% Bromofluorobenzene	103		%	05/31/12		R/J	70 - 121 %
% Dibromofluoromethane	98		%	05/31/12		R/J	70 - 121 %
% Toluene-d8	102		%	05/31/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	470	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	1300	290	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	470	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	ug/Kg	05/31/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	580	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	470	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	290	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
4-Chloroaniline	ND	580	ug/Kg	05/31/12		KCA	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	05/31/12		KCA	SW 8270
4-Nitroaniline	ND	470	ug/Kg	05/31/12		KCA	SW 8270
4-Nitrophenol	ND	840	ug/Kg	05/31/12		KCA	SW 8270
Acenaphthene	790	290	ug/Kg	05/31/12		KCA	SW 8270
Acenaphthylene	270 J	290	ug/Kg	05/31/12		KCA	SW 8270
Acetophenone	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Aniline	ND	840	ug/Kg	05/31/12		KCA	SW 8270 LO
Anthracene	350	290	ug/Kg	05/31/12		KCA	SW 8270
Azobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270 1
Benz(a)anthracene	790	290	ug/Kg	05/31/12		KCA	SW 8270
Benzidine	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Benzo(a)pyrene	700	290	ug/Kg	05/31/12		KCA	SW 8270
Benzo(b)fluoranthene	850	290	ug/Kg	05/31/12		KCA	SW 8270
Benzo(ghi)perylene	390	290	ug/Kg	05/31/12		KCA	SW 8270
Benzo(k)fluoranthene	400	290	ug/Kg	05/31/12		KCA	SW 8270
Benzoic acid	ND	840	ug/Kg	05/31/12		KCA	SW 8270 LO
Benzyl butyl phthalate	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroethyl)ether	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Carbazole	ND	840	ug/Kg	05/31/12		KCA	SW 8270
Chrysene	760	290	ug/Kg	05/31/12		KCA	SW 8270
Dibenz(a,h)anthracene	180 J	290	ug/Kg	05/31/12		KCA	SW 8270
Dibenzofuran	570	290	ug/Kg	05/31/12		KCA	SW 8270
Diethyl phthalate	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Dimethylphthalate	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Di-n-octylphthalate	110 J	290	ug/Kg	05/31/12		KCA	SW 8270
Fluoranthene	1600	290	ug/Kg	05/31/12		KCA	SW 8270
Fluorene	1100	290	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Hexachloroethane	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Indeno(1,2,3-cd)pyrene	360	290	ug/Kg	05/31/12		KCA	SW 8270
Isophorone	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Naphthalene	150 J	290	ug/Kg	05/31/12		KCA	SW 8270
Nitrobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodimethylamine	ND	290	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodiphenylamine	ND	840	ug/Kg	05/31/12		KCA	SW 8270
Pentachloronitrobenzene	ND	290	ug/Kg	05/31/12		KCA	SW 8270 1
Pentachlorophenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Phenanthrene	3800	290	ug/Kg	05/31/12		KCA	SW 8270
Phenol	ND	290	ug/Kg	05/31/12		KCA	SW 8270
Pyrene	1700	290	ug/Kg	05/31/12		KCA	SW 8270
Pyridine	ND	290	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	65		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	67		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	71		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	66		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	70		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	82		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

Comments:

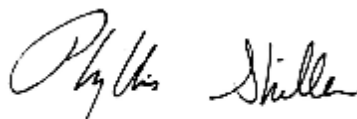
Elevated reporting limits for volatiles due to the presence of target and non-target compounds.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/25/12	9:20
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91706

Project ID: 145 WEST ST
Client ID: WS-H2

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	06/01/12		EK	6010
Aluminum	5860 N	35	mg/Kg	06/01/12		EK	6010
Arsenic	3.75	0.71	mg/Kg	06/01/12		EK	6010
Barium	131	0.71	mg/Kg	06/01/12		EK	6010
Beryllium	0.35	0.28	mg/Kg	06/01/12		EK	6010
Calcium	31200	35	mg/Kg	06/01/12		EK	6010
Cadmium	0.279 B	0.35	mg/Kg	06/01/12		EK	6010
Cobalt	64.3	0.35	mg/Kg	06/01/12		EK	6010
Chromium	14.2	0.35	mg/Kg	06/01/12		EK	6010
Copper	101	0.35	mg/kg	06/01/12		EK	6010
Iron	16600 *	35	mg/Kg	06/01/12		EK	6010
Mercury	0.22	0.06	mg/Kg	06/01/12		RS	SW-7471
Potassium	1200	71	mg/Kg	06/01/12		EK	6010
Magnesium	6270	3.5	mg/Kg	06/01/12		EK	6010
Manganese	229	3.5	mg/Kg	06/01/12		EK	6010
Sodium	440	7	mg/Kg	06/01/12		EK	6010
Nickel	15.0	0.35	mg/Kg	06/01/12		EK	6010
Lead	162	7.1	mg/Kg	06/01/12		EK	6010
Antimony	< 1.8	1.8	mg/Kg	06/01/12		EK	6010
Selenium	< 1.4	1.4	mg/Kg	06/01/12		EK	6010
Thallium	< 1.4	1.4	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	32.5	0.35	mg/Kg	06/01/12		EK	6010
Zinc	416 *	7.1	mg/Kg	06/01/12		EK	6010
Percent Solid	92		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trimethylbenzene	2.3 J	5.4	ug/Kg	05/31/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,3,5-Trimethylbenzene	0.83 J	5.4	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
2-Hexanone	ND	27	ug/Kg	05/31/12		R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	05/31/12		R/J	SW8260
Acetone	14 JS	54	ug/Kg	05/31/12		R/J	SW8260 B*
Acrylonitrile	ND	11	ug/Kg	05/31/12		R/J	SW8260
Benzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Bromoform	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Bromomethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Carbon Disulfide	1.7 J	5.4	ug/Kg	05/31/12		R/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Chloroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Chloroform	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Chloromethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Dibromochloromethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Dibromoethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260 1P
Dibromomethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	33	ug/Kg	05/31/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/31/12		R/J	SW8260
Methylene chloride	6.9 S	5.4	ug/Kg	05/31/12		R/J	SW8260 B*
Naphthalene	25	5.4	ug/Kg	05/31/12		R/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
o-Xylene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
p-Isopropyltoluene	1.1 J	5.4	ug/Kg	05/31/12		R/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Styrene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/31/12		R/J	SW8260 1
Toluene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/31/12		R/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	05/31/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	05/31/12		R/J	70 - 121 %
% Bromofluorobenzene	86		%	05/31/12		R/J	70 - 121 %
% Dibromofluoromethane	110		%	05/31/12		R/J	70 - 121 %
% Toluene-d8	88		%	05/31/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270
1,2-Dichlorobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270
1,3-Dichlorobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270
1,4-Dichlorobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	490	ug/Kg	06/05/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	490	ug/Kg	06/05/12		DD	SW 8270
2,4-Dichlorophenol	ND	490	ug/Kg	06/05/12		DD	SW 8270
2,4-Dimethylphenol	ND	490	ug/Kg	06/05/12		DD	SW 8270
2,4-Dinitrophenol	ND	790	ug/Kg	06/05/12		DD	SW 8270
2,4-Dinitrotoluene	ND	490	ug/Kg	06/05/12		DD	SW 8270
2,6-Dinitrotoluene	ND	490	ug/Kg	06/05/12		DD	SW 8270
2-Chloronaphthalene	ND	490	ug/Kg	06/05/12		DD	SW 8270
2-Chlorophenol	ND	490	ug/Kg	06/05/12		DD	SW 8270
2-Methylnaphthalene	240 J	490	ug/Kg	06/05/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	490	ug/Kg	06/05/12		DD	SW 8270
2-Nitroaniline	ND	790	ug/Kg	06/05/12		DD	SW 8270
2-Nitrophenol	ND	490	ug/Kg	06/05/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	490	ug/Kg	06/05/12		DD	SW 8270 1
3,3'-Dichlorobenzidine	ND	990	ug/Kg	06/05/12		DD	SW 8270
3-Nitroaniline	ND	790	ug/Kg	06/05/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	490	ug/Kg	06/05/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	490	ug/Kg	06/05/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	490	ug/Kg	06/05/12		DD	SW 8270	
4-Chloroaniline	ND	990	ug/Kg	06/05/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	490	ug/Kg	06/05/12		DD	SW 8270	
4-Nitroaniline	ND	790	ug/Kg	06/05/12		DD	SW 8270	
4-Nitrophenol	ND	1400	ug/Kg	06/05/12		DD	SW 8270	
Acenaphthene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Acenaphthylene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Acetophenone	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Aniline	ND	1400	ug/Kg	06/05/12		DD	SW 8270	LO
Anthracene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Azobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270	1
Benz(a)anthracene	610	490	ug/Kg	06/05/12		DD	SW 8270	
Benzidine	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Benzo(a)pyrene	490 J	490	ug/Kg	06/05/12		DD	SW 8270	
Benzo(b)fluoranthene	700	490	ug/Kg	06/05/12		DD	SW 8270	
Benzo(ghi)perylene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Benzoic acid	ND	1400	ug/Kg	06/05/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	520	490	ug/Kg	06/05/12		DD	SW 8270	
Carbazole	ND	1400	ug/Kg	06/05/12		DD	SW 8270	
Chrysene	580	490	ug/Kg	06/05/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Dibenzofuran	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Diethyl phthalate	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Dimethylphthalate	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Di-n-butylphthalate	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Di-n-octylphthalate	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Fluoranthene	930	490	ug/Kg	06/05/12		DD	SW 8270	
Fluorene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Hexachlorobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Hexachlorobutadiene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Hexachloroethane	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Isophorone	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Naphthalene	360 J	490	ug/Kg	06/05/12		DD	SW 8270	
Nitrobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	490	ug/Kg	06/05/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	490	ug/Kg	06/05/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	1400	ug/Kg	06/05/12		DD	SW 8270	
Pentachloronitrobenzene	ND	490	ug/Kg	06/05/12		DD	SW 8270	1
Pentachlorophenol	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Phenanthrene	970	490	ug/Kg	06/05/12		DD	SW 8270	
Phenol	ND	490	ug/Kg	06/05/12		DD	SW 8270	
Pyrene	1000	490	ug/Kg	06/05/12		DD	SW 8270	
Pyridine	ND	490	ug/Kg	06/05/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	06/05/12		DD	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/05/12		DD	19 - 122 %
% 2-Fluorophenol	75		%	06/05/12		DD	19 - 122 %
% Nitrobenzene-d5	73		%	06/05/12		DD	19 - 122 %
% Phenol-d5	81		%	06/05/12		DD	19 - 122 %
% Terphenyl-d14	67		%	06/05/12		DD	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

Comments:

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

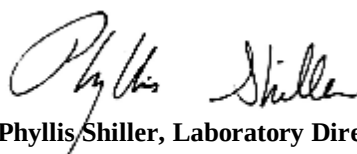
* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/25/12	10:00
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91707

Project ID: 145 WEST ST
Client ID: WS-G2

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	06/01/12		EK	6010
Aluminum	9100 N	37	mg/Kg	06/01/12		EK	6010
Arsenic	4.98	0.75	mg/Kg	06/01/12		EK	6010
Barium	83.0	0.75	mg/Kg	06/01/12		EK	6010
Beryllium	0.268 B	0.30	mg/Kg	06/01/12		EK	6010
Calcium	19200	37	mg/Kg	06/01/12		EK	6010
Cadmium	< 0.37	0.37	mg/Kg	06/01/12		EK	6010
Cobalt	9.34	0.37	mg/Kg	06/01/12		EK	6010
Chromium	8.03	0.37	mg/Kg	06/01/12		EK	6010
Copper	102	0.37	mg/kg	06/01/12		EK	6010
Iron	41300 *	37	mg/Kg	06/01/12		EK	6010
Mercury	0.14	0.08	mg/Kg	06/01/12		RS	SW-7471
Potassium	1120	75	mg/Kg	06/01/12		EK	6010
Magnesium	7460	37	mg/Kg	06/01/12		EK	6010
Manganese	426	3.7	mg/Kg	06/01/12		EK	6010
Sodium	837	7	mg/Kg	06/01/12		EK	6010
Nickel	11.7	0.37	mg/Kg	06/01/12		EK	6010
Lead	2630	75	mg/Kg	06/01/12		EK	6010
Antimony	0.325 B	1.9	mg/Kg	06/01/12		EK	6010
Selenium	< 1.5	1.5	mg/Kg	06/01/12		EK	6010
Thallium	< 1.5	1.5	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	38.0	0.37	mg/Kg	06/01/12		EK	6010
Zinc	101 *	0.75	mg/Kg	06/01/12		EK	6010
Percent Solid	87		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,1,1-Trichloroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,1,2-Trichloroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethene	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloropropene	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichlorobenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloropropane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichlorobenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichloropropane	ND	290	ug/Kg	05/31/12		R/J	SW8260
1,4-Dichlorobenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
2,2-Dichloropropane	ND	290	ug/Kg	05/31/12		R/J	SW8260
2-Chlorotoluene	ND	290	ug/Kg	05/31/12		R/J	SW8260
2-Hexanone	ND	1400	ug/Kg	05/31/12		R/J	SW8260
2-Isopropyltoluene	ND	290	ug/Kg	05/31/12		R/J	SW8260 1
4-Chlorotoluene	ND	290	ug/Kg	05/31/12		R/J	SW8260
4-Methyl-2-pentanone	ND	1400	ug/Kg	05/31/12		R/J	SW8260
Acetone	ND	2900	ug/Kg	05/31/12		R/J	SW8260 B
Acrylonitrile	ND	570	ug/Kg	05/31/12		R/J	SW8260
Benzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Bromobenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Bromochloromethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Bromodichloromethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Bromoform	ND	290	ug/Kg	05/31/12		R/J	SW8260
Bromomethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Carbon Disulfide	ND	290	ug/Kg	05/31/12		R/J	SW8260
Carbon tetrachloride	ND	290	ug/Kg	05/31/12		R/J	SW8260
Chlorobenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Chloroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Chloroform	ND	290	ug/Kg	05/31/12		R/J	SW8260
Chloromethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	290	ug/Kg	05/31/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Dibromochloromethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Dibromoethane	ND	290	ug/Kg	05/31/12		R/J	SW8260 1P
Dibromomethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Dichlorodifluoromethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Ethylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Hexachlorobutadiene	ND	290	ug/Kg	05/31/12		R/J	SW8260 1P
Isopropylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
m&p-Xylene	ND	290	ug/Kg	05/31/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	1700	ug/Kg	05/31/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	570	ug/Kg	05/31/12		R/J	SW8260
Methylene chloride	180 JS	290	ug/Kg	05/31/12		R/J	SW8260
Naphthalene	140 J	290	ug/Kg	05/31/12		R/J	SW8260
n-Butylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
n-Propylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
o-Xylene	ND	290	ug/Kg	05/31/12		R/J	SW8260
p-Isopropyltoluene	110 J	290	ug/Kg	05/31/12		R/J	SW8260
sec-Butylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Styrene	ND	290	ug/Kg	05/31/12		R/J	SW8260
tert-Butylbenzene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Tetrachloroethene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	570	ug/Kg	05/31/12		R/J	SW8260
Toluene	ND	290	ug/Kg	05/31/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	290	ug/Kg	05/31/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	290	ug/Kg	05/31/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	570	ug/Kg	05/31/12		R/J	SW8260
Trichloroethene	ND	290	ug/Kg	05/31/12		R/J	SW8260
Trichlorofluoromethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Trichlorotrifluoroethane	ND	290	ug/Kg	05/31/12		R/J	SW8260
Vinyl chloride	ND	290	ug/Kg	05/31/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	05/31/12		R/J	70 - 121 %
% Bromofluorobenzene	101		%	05/31/12		R/J	70 - 121 %
% Dibromofluoromethane	92		%	05/31/12		R/J	70 - 121 %
% Toluene-d8	102		%	05/31/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	420	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	430	260	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	190 J	260	ug/Kg	05/31/12		KCA	SW 8270
3,3'-Dichlorobenzidine	ND	520	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
4-Chloroaniline	ND	520	ug/Kg	05/31/12		KCA	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270
4-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270
4-Nitrophenol	ND	760	ug/Kg	05/31/12		KCA	SW 8270
Acenaphthene	740	260	ug/Kg	05/31/12		KCA	SW 8270
Acenaphthylene	130 J	260	ug/Kg	05/31/12		KCA	SW 8270
Acetophenone	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Aniline	ND	760	ug/Kg	05/31/12		KCA	SW 8270 LO
Anthracene	1500	260	ug/Kg	05/31/12		KCA	SW 8270
Azobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270 1
Benz(a)anthracene	2700	260	ug/Kg	05/31/12		KCA	SW 8270
Benzidine	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Benzo(a)pyrene	2100	260	ug/Kg	05/31/12		KCA	SW 8270
Benzo(b)fluoranthene	2700	260	ug/Kg	05/31/12		KCA	SW 8270
Benzo(ghi)perylene	860	260	ug/Kg	05/31/12		KCA	SW 8270
Benzo(k)fluoranthene	1200	260	ug/Kg	05/31/12		KCA	SW 8270
Benzoic acid	ND	760	ug/Kg	05/31/12		KCA	SW 8270 LO
Benzyl butyl phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Carbazole	1100	760	ug/Kg	05/31/12		KCA	SW 8270
Chrysene	2500	260	ug/Kg	05/31/12		KCA	SW 8270
Dibenz(a,h)anthracene	260 J	260	ug/Kg	05/31/12		KCA	SW 8270
Dibenzofuran	570	260	ug/Kg	05/31/12		KCA	SW 8270
Diethyl phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Dimethylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Fluoranthene	5000	260	ug/Kg	05/31/12		KCA	SW 8270
Fluorene	880	260	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Hexachloroethane	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Indeno(1,2,3-cd)pyrene	770	260	ug/Kg	05/31/12		KCA	SW 8270
Isophorone	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Naphthalene	1100	260	ug/Kg	05/31/12		KCA	SW 8270
Nitrobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodimethylamine	ND	260	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodiphenylamine	ND	760	ug/Kg	05/31/12		KCA	SW 8270
Pentachloronitrobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270 1
Pentachlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Phenanthrene	8100	260	ug/Kg	05/31/12		KCA	SW 8270
Phenol	150 J	260	ug/Kg	05/31/12		KCA	SW 8270
Pyrene	4700	260	ug/Kg	05/31/12		KCA	SW 8270
Pyridine	ND	260	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	88		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	73		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	78		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	80		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	79		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	77		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

Comments:

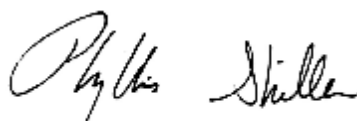
Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/25/12	14:45
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91708

Project ID: 145 WEST ST
Client ID: WS-C2

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	06/01/12		EK	6010
Aluminum	7410 N	36	mg/Kg	06/01/12		EK	6010
Arsenic	8.24	0.71	mg/Kg	06/01/12		EK	6010
Barium	103	0.71	mg/Kg	06/01/12		EK	6010
Beryllium	0.38	0.28	mg/Kg	06/01/12		EK	6010
Calcium	5180	3.6	mg/Kg	06/01/12		EK	6010
Cadmium	0.38	0.36	mg/Kg	06/01/12		EK	6010
Cobalt	6.14	0.36	mg/Kg	06/01/12		EK	6010
Chromium	15.0	0.36	mg/Kg	06/01/12		EK	6010
Copper	93.7	0.36	mg/kg	06/01/12		EK	6010
Iron	24600 *	36	mg/Kg	06/01/12		EK	6010
Mercury	0.30	0.06	mg/Kg	06/01/12		RS	SW-7471
Potassium	1360	71	mg/Kg	06/01/12		EK	6010
Magnesium	2420	3.6	mg/Kg	06/01/12		EK	6010
Manganese	315	3.6	mg/Kg	06/01/12		EK	6010
Sodium	533	7	mg/Kg	06/01/12		EK	6010
Nickel	14.1	0.36	mg/Kg	06/01/12		EK	6010
Lead	545	7.1	mg/Kg	06/01/12		EK	6010
Antimony	0.457 B	1.8	mg/Kg	06/01/12		EK	6010
Selenium	< 1.4	1.4	mg/Kg	06/01/12		EK	6010
Thallium	< 1.4	1.4	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	23.9	0.36	mg/Kg	06/01/12		EK	6010
Zinc	238 *	7.1	mg/Kg	06/01/12		EK	6010
Percent Solid	88		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	28	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	06/01/12		R/J	SW8260
Acetone	ND	57	ug/Kg	06/01/12		R/J	SW8260 B
Acrylonitrile	ND	11	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260 1P
Dibromomethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	34	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	5.0 JS	5.7	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	83		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	98		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	97		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	420	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	440	260	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	260	ug/Kg	05/31/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	520	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
4-Chloroaniline	ND	520	ug/Kg	05/31/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitrophenol	ND	760	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthene	320	260	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthylene	730	260	ug/Kg	05/31/12		KCA	SW 8270	
Acetophenone	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Aniline	ND	760	ug/Kg	05/31/12		KCA	SW 8270	LO
Anthracene	9900	260	ug/Kg	05/31/12		KCA	SW 8270	
Azobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	1
Benz(a)anthracene	12000	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzidine	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(a)pyrene	4900	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(b)fluoranthene	10000	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(ghi)perylene	1500	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(k)fluoranthene	3600	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzoic acid	ND	760	ug/Kg	05/31/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Carbazole	920	760	ug/Kg	05/31/12		KCA	SW 8270	
Chrysene	17000	260	ug/Kg	05/31/12		KCA	SW 8270	
Dibenz(a,h)anthracene	470	260	ug/Kg	05/31/12		KCA	SW 8270	
Dibenzofuran	520	260	ug/Kg	05/31/12		KCA	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Fluoranthene	27000	260	ug/Kg	05/31/12		KCA	SW 8270	
Fluorene	430	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachloroethane	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	1500	260	ug/Kg	05/31/12		KCA	SW 8270	
Isophorone	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Naphthalene	1000	260	ug/Kg	05/31/12		KCA	SW 8270	
Nitrobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	760	ug/Kg	05/31/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	1
Pentachlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Phenanthrene	2500	260	ug/Kg	05/31/12		KCA	SW 8270	
Phenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Pyrene	15000	260	ug/Kg	05/31/12		KCA	SW 8270	
Pyridine	ND	260	ug/Kg	05/31/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	85		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	70		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	75		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	78		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	78		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	71		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

Comments:

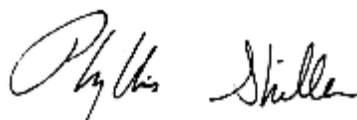
**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/25/12	14:50
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91709

Project ID: 145 WEST ST
Client ID: WS-C2 30 FT

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	06/01/12		EK	6010
Aluminum	6670 N	34	mg/Kg	06/01/12		EK	6010
Arsenic	0.92	0.68	mg/Kg	06/01/12		EK	6010
Barium	34.7	0.68	mg/Kg	06/01/12		EK	6010
Beryllium	0.58	0.27	mg/Kg	06/01/12		EK	6010
Calcium	357	3.4	mg/Kg	06/01/12		EK	6010
Cadmium	< 0.34	0.34	mg/Kg	06/01/12		EK	6010
Cobalt	8.81	0.34	mg/Kg	06/01/12		EK	6010
Chromium	21.0	0.34	mg/Kg	06/01/12		EK	6010
Copper	22.2	0.34	mg/kg	06/01/12		EK	6010
Iron	35900 *	34	mg/Kg	06/01/12		EK	6010
Mercury	0.10	0.08	mg/Kg	06/01/12		RS	SW-7471
Potassium	1780	68	mg/Kg	06/01/12		EK	6010
Magnesium	1700	3.4	mg/Kg	06/01/12		EK	6010
Manganese	185	3.4	mg/Kg	06/01/12		EK	6010
Sodium	796	7	mg/Kg	06/01/12		EK	6010
Nickel	14.5	0.34	mg/Kg	06/01/12		EK	6010
Lead	10.5	0.68	mg/Kg	06/01/12		EK	6010
Antimony	< 1.7	1.7	mg/Kg	06/01/12		EK	6010
Selenium	< 1.4	1.4	mg/Kg	06/01/12		EK	6010
Thallium	< 1.4	1.4	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	33.6	0.34	mg/Kg	06/01/12		EK	6010
Zinc	48.2 *	0.68	mg/Kg	06/01/12		EK	6010
Percent Solid	87		%	05/30/12		JL	E160.3
Chromium, Hexavalent	< 0.46	0.46	mg/Kg	06/02/12	8:53	KDB	SW3060/7196
Soil Extraction for PCB	Completed			06/04/12		BB/F	SW3545
Soil Extraction for Pesticide	Completed			06/04/12		BB	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			05/30/12		M/D	SW8151

Chlorinated Herbicides

2,4,5-T	ND	48	ug/Kg	06/02/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	48	ug/Kg	06/02/12		JRB	SW8151
2,4-D	ND	48	ug/Kg	06/02/12		JRB	SW8151
2,4-DB	ND	480	ug/Kg	06/02/12		JRB	SW8151
Dalapon	ND	48	ug/Kg	06/02/12		JRB	SW8151
Dicamba	ND	95	ug/Kg	06/02/12		JRB	SW8151
Dichloroprop	ND	48	ug/Kg	06/02/12		JRB	SW8151
Dinoseb	ND	95	ug/Kg	06/02/12		JRB	SW8151

QA/QC Surrogates

% DCAA	69		%	06/02/12		JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1221	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1232	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1242	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1248	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1254	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1260	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1262	ND	95	ug/Kg	06/06/12		MH	SW 8082
PCB-1268	ND	95	ug/Kg	06/06/12		MH	SW 8082

QA/QC Surrogates

% DCBP	81		%	06/06/12		MH	50 - 150 %
% TCMX	77		%	06/06/12		MH	50 - 150 %

Pesticides - Soil

4,4' -DDD	ND	6.8	ug/Kg	06/04/12		KCA	SW8081
4,4' -DDE	ND	6.8	ug/Kg	06/04/12		KCA	SW8081
4,4' -DDT	ND	6.8	ug/Kg	06/04/12		KCA	SW8081
a-BHC	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
a-Chlordane	ND	9.4	ug/Kg	06/04/12		KCA	SW8081
Aldrin	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
b-BHC	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
Chlordane	ND	56	ug/Kg	06/04/12		KCA	SW8081
d-BHC	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
Dieldrin	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
Endosulfan I	ND	9.4	ug/Kg	06/04/12		KCA	SW8081
Endosulfan II	ND	9.4	ug/Kg	06/04/12		KCA	SW8081
Endosulfan sulfate	ND	9.4	ug/Kg	06/04/12		KCA	SW8081
Endrin	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
Endrin aldehyde	ND	9.4	ug/Kg	06/04/12		KCA	SW8081
Endrin ketone	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
g-BHC	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
g-Chlordane	ND	9.4	ug/Kg	06/04/12		KCA	SW8081
Heptachlor	ND	4.7	ug/Kg	06/04/12		KCA	SW8081
Heptachlor epoxide	ND	4.7	ug/Kg	06/04/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Methoxychlor	ND	19	ug/Kg	06/04/12		KCA	SW8081
Toxaphene	ND	90	ug/Kg	06/04/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	75		%	06/04/12		KCA	SW8081
% TCMX	86		%	06/04/12		KCA	SW8081
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
2-Hexanone	ND	29	ug/Kg	05/31/12		R/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	05/31/12		R/J	SW8260
Acetone	ND	57	ug/Kg	05/31/12		R/J	SW8260 B
Acrylonitrile	ND	11	ug/Kg	05/31/12		R/J	SW8260
Benzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Bromoform	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Bromomethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Chloroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Chloroform	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Chloromethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Dibromochloromethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Dibromoethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260 1P
Dibromomethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Dichlorodifluoromethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	05/31/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/31/12		R/J	SW8260
Methylene chloride	3.9 JS	5.7	ug/Kg	05/31/12		R/J	SW8260
Naphthalene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
o-Xylene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Styrene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/31/12		R/J	SW8260
Toluene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/31/12		R/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	05/31/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	05/31/12		R/J	70 - 121 %
% Bromofluorobenzene	99		%	05/31/12		R/J	70 - 121 %
% Dibromofluoromethane	99		%	05/31/12		R/J	70 - 121 %
% Toluene-d8	102		%	05/31/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	420	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
3&4-Methylphenol (m&p-cresol)	ND	260	ug/Kg	05/31/12		KCA	SW 8270	1
3,3'-Dichlorobenzidine	ND	520	ug/Kg	05/31/12		KCA	SW 8270	
3-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270	
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
4-Chloroaniline	ND	520	ug/Kg	05/31/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitroaniline	ND	420	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitrophenol	ND	750	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthylene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Acetophenone	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Aniline	ND	750	ug/Kg	05/31/12		KCA	SW 8270	LO
Anthracene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Azobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	1
Benz(a)anthracene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzidine	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Benzoic acid	ND	750	ug/Kg	05/31/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Carbazole	ND	750	ug/Kg	05/31/12		KCA	SW 8270	
Chrysene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Dibenzofuran	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Fluoranthene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Fluorene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Hexachloroethane	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Isophorone	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Naphthalene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
Nitrobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	750	ug/Kg	05/31/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	260	ug/Kg	05/31/12		KCA	SW 8270	1

Parameter	Result	RL	Units	Date	Time	By	Reference
Pentachlorophenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Phenanthrene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Phenol	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Pyrene	ND	260	ug/Kg	05/31/12		KCA	SW 8270
Pyridine	ND	260	ug/Kg	05/31/12		KCA	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	94		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	74		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	81		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	85		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	84		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	84		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

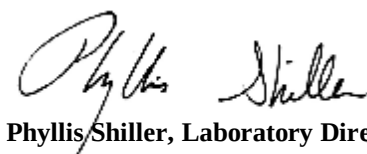
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/29/12	10:00
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91710

Project ID: 145 WEST ST
Client ID: WSC 5

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	06/01/12		EK	6010
Aluminum	6760 N	43	mg/Kg	06/01/12		EK	6010
Arsenic	9.67	0.86	mg/Kg	06/01/12		EK	6010
Barium	84.3	0.86	mg/Kg	06/01/12		EK	6010
Beryllium	0.305 B	0.34	mg/Kg	06/01/12		EK	6010
Calcium	7380	4.3	mg/Kg	06/01/12		EK	6010
Cadmium	0.45	0.43	mg/Kg	06/01/12		EK	6010
Cobalt	7.43	0.43	mg/Kg	06/01/12		EK	6010
Chromium	9.67	0.43	mg/Kg	06/01/12		EK	6010
Copper	88.6	0.43	mg/kg	06/01/12		EK	6010
Iron	23400 *	43	mg/Kg	06/01/12		EK	6010
Mercury	0.12	0.08	mg/Kg	06/01/12		RS	SW-7471
Potassium	1080	86	mg/Kg	06/01/12		EK	6010
Magnesium	3040	4.3	mg/Kg	06/01/12		EK	6010
Manganese	254	4.3	mg/Kg	06/01/12		EK	6010
Sodium	1090	9	mg/Kg	06/01/12		EK	6010
Nickel	12.9	0.43	mg/Kg	06/01/12		EK	6010
Lead	404	8.6	mg/Kg	06/01/12		EK	6010
Antimony	0.838 B	2.1	mg/Kg	06/01/12		EK	6010
Selenium	< 1.7	1.7	mg/Kg	06/01/12		EK	6010
Thallium	< 1.7	1.7	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	33.2	0.43	mg/Kg	06/01/12		EK	6010
Zinc	147 *	0.86	mg/Kg	06/01/12		EK	6010
Percent Solid	81		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	31	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	06/01/12		R/J	SW8260
Acetone	8.7 JS	62	ug/Kg	06/01/12		R/J	SW8260 B*
Acrylonitrile	ND	12	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1P
Dibromomethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	37	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	4.4 JS	6.2	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	97		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	97		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	101		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	460	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	460	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	05/31/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	570	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	460	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
4-Chloroaniline	ND	570	ug/Kg	05/31/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitroaniline	ND	460	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitrophenol	ND	830	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthylene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Acetophenone	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Aniline	ND	830	ug/Kg	05/31/12		KCA	SW 8270	LO
Anthracene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Azobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	1
Benz(a)anthracene	220 J	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzidine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(a)pyrene	260 J	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(b)fluoranthene	310	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(ghi)perylene	160 J	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(k)fluoranthene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzoic acid	ND	830	ug/Kg	05/31/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Carbazole	ND	830	ug/Kg	05/31/12		KCA	SW 8270	
Chrysene	220 J	280	ug/Kg	05/31/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Dibenzofuran	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Fluoranthene	390	280	ug/Kg	05/31/12		KCA	SW 8270	
Fluorene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachloroethane	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Isophorone	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Naphthalene	250 J	280	ug/Kg	05/31/12		KCA	SW 8270	
Nitrobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	830	ug/Kg	05/31/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	1
Pentachlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Phenanthrene	310	280	ug/Kg	05/31/12		KCA	SW 8270	
Phenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Pyrene	610	280	ug/Kg	05/31/12		KCA	SW 8270	
Pyridine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	63		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	77		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	78		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	82		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	82		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

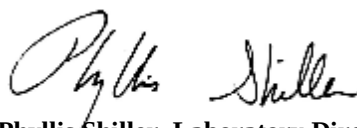
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/29/12	8:45
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91711

Project ID: 145 WEST ST
Client ID: WSD 5

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.58	0.58	mg/Kg	06/01/12		EK	6010
Aluminum	16300 N	58	mg/Kg	06/01/12		EK	6010
Arsenic	21.3	1.2	mg/Kg	06/01/12		EK	6010
Barium	893	1.2	mg/Kg	06/01/12		EK	6010
Beryllium	0.74	0.46	mg/Kg	06/01/12		EK	6010
Calcium	3990	5.8	mg/Kg	06/01/12		EK	6010
Cadmium	0.332 B	0.58	mg/Kg	06/01/12		EK	6010
Cobalt	12.0	0.58	mg/Kg	06/01/12		EK	6010
Chromium	42.6	0.58	mg/Kg	06/01/12		EK	6010
Copper	274	5.8	mg/kg	06/01/12		EK	6010
Iron	37300 *	58	mg/Kg	06/01/12		EK	6010
Mercury	0.22	0.11	mg/Kg	06/01/12		RS	SW-7471
Potassium	4470	120	mg/Kg	06/01/12		EK	6010
Magnesium	6850	5.8	mg/Kg	06/01/12		EK	6010
Manganese	447	5.8	mg/Kg	06/01/12		EK	6010
Sodium	1810	12	mg/Kg	06/01/12		EK	6010
Nickel	29.4	0.58	mg/Kg	06/01/12		EK	6010
Lead	895	12	mg/Kg	06/01/12		EK	6010
Antimony	1.48 B	2.9	mg/Kg	06/01/12		EK	6010
Selenium	< 2.3	2.3	mg/Kg	06/01/12		EK	6010
Thallium	< 2.3	2.3	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	36.0	0.58	mg/Kg	06/01/12		EK	6010
Zinc	307 *	12	mg/Kg	06/01/12		EK	6010
Percent Solid	62		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	40	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	40	ug/Kg	06/01/12		R/J	SW8260
Acetone	ND	81	ug/Kg	06/01/12		R/J	SW8260 B
Acrylonitrile	ND	16	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260 1P
Dibromomethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	48	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	5.7 JS	8.1	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	16	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	8.1	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	96		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	98		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	101		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	810	370	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	370	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	590	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	330 J	370	ug/Kg	05/31/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	740	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	590	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
4-Chloroaniline	ND	740	ug/Kg	05/31/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitroaniline	ND	590	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthene	2500	370	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthylene	460	370	ug/Kg	05/31/12		KCA	SW 8270	
Acetophenone	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Aniline	ND	1100	ug/Kg	05/31/12		KCA	SW 8270	LO
Anthracene	6500	370	ug/Kg	05/31/12		KCA	SW 8270	
Azobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270	1
Benz(a)anthracene	14000	370	ug/Kg	05/31/12		KCA	SW 8270	
Benzidine	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(a)pyrene	10000	370	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(b)fluoranthene	12000	370	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(ghi)perylene	2200	370	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(k)fluoranthene	3400	370	ug/Kg	05/31/12		KCA	SW 8270	
Benzoic acid	ND	1100	ug/Kg	05/31/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Carbazole	2600	1100	ug/Kg	05/31/12		KCA	SW 8270	
Chrysene	11000	370	ug/Kg	05/31/12		KCA	SW 8270	
Dibenz(a,h)anthracene	790	370	ug/Kg	05/31/12		KCA	SW 8270	
Dibenzofuran	1500	370	ug/Kg	05/31/12		KCA	SW 8270	
Diethyl phthalate	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Dimethylphthalate	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-butylphthalate	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-octylphthalate	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Fluoranthene	30000	370	ug/Kg	05/31/12		KCA	SW 8270	
Fluorene	3300	370	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobutadiene	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Hexachloroethane	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	2200	370	ug/Kg	05/31/12		KCA	SW 8270	
Isophorone	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Naphthalene	2400	370	ug/Kg	05/31/12		KCA	SW 8270	
Nitrobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	1100	ug/Kg	05/31/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	05/31/12		KCA	SW 8270	1
Pentachlorophenol	ND	370	ug/Kg	05/31/12		KCA	SW 8270	
Phenanthrene	32000	370	ug/Kg	05/31/12		KCA	SW 8270	
Phenol	220 J	370	ug/Kg	05/31/12		KCA	SW 8270	
Pyrene	23000	370	ug/Kg	05/31/12		KCA	SW 8270	
Pyridine	ND	370	ug/Kg	05/31/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	87		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	58		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	76		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	67		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	79		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	80		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

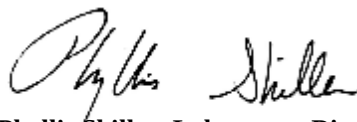
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/30/12	8:45
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91712

Project ID: 145 WEST ST

Client ID: WSC 5

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	06/01/12		EK	6010
Aluminum	10900 N	42	mg/Kg	06/01/12		EK	6010
Arsenic	7.82	0.84	mg/Kg	06/01/12		EK	6010
Barium	187	0.84	mg/Kg	06/01/12		EK	6010
Beryllium	0.51	0.34	mg/Kg	06/01/12		EK	6010
Calcium	5750	4.2	mg/Kg	06/01/12		EK	6010
Cadmium	0.44	0.42	mg/Kg	06/01/12		EK	6010
Cobalt	12.8	0.42	mg/Kg	06/01/12		EK	6010
Chromium	20.7	0.42	mg/Kg	06/01/12		EK	6010
Copper	165	0.42	mg/kg	06/01/12		EK	6010
Iron	28100 *	42	mg/Kg	06/01/12		EK	6010
Mercury	5.63	0.19	mg/Kg	05/31/12		RS	SW-7471
Potassium	3320	84	mg/Kg	06/01/12		EK	6010
Magnesium	4800	4.2	mg/Kg	06/01/12		EK	6010
Manganese	466	4.2	mg/Kg	06/01/12		EK	6010
Sodium	614	8	mg/Kg	06/01/12		EK	6010
Nickel	23.9	0.42	mg/Kg	06/01/12		EK	6010
Lead	769	8.4	mg/Kg	06/01/12		EK	6010
Antimony	< 2.1	2.1	mg/Kg	06/01/12		EK	6010
Selenium	< 1.7	1.7	mg/Kg	06/01/12		EK	6010
Thallium	< 1.7	1.7	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	37.3	0.42	mg/Kg	06/01/12		EK	6010
Zinc	324 *	8.4	mg/Kg	06/01/12		EK	6010
Percent Solid	76		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	33	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	33	ug/Kg	06/01/12		R/J	SW8260
Acetone	ND	66	ug/Kg	06/01/12		R/J	SW8260 B
Acrylonitrile	ND	13	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260 1P
Dibromomethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	39	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	5.0 JS	6.6	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.6	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	97		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	103		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	490	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	1800	300	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	490	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	200 J	300	ug/Kg	05/31/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	610	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	490	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
4-Chloroaniline	ND	610	ug/Kg	05/31/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitroaniline	ND	490	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitrophenol	ND	880	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthene	2600	300	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthylene	480	300	ug/Kg	05/31/12		KCA	SW 8270	
Acetophenone	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Aniline	ND	880	ug/Kg	05/31/12		KCA	SW 8270	LO
Anthracene	2800	300	ug/Kg	05/31/12		KCA	SW 8270	
Azobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270	1
Benz(a)anthracene	3700	300	ug/Kg	05/31/12		KCA	SW 8270	
Benzidine	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(a)pyrene	2700	300	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(b)fluoranthene	3900	300	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(ghi)perylene	830	300	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(k)fluoranthene	1900	300	ug/Kg	05/31/12		KCA	SW 8270	
Benzoic acid	ND	880	ug/Kg	05/31/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Carbazole	5200	880	ug/Kg	05/31/12		KCA	SW 8270	
Chrysene	3400	300	ug/Kg	05/31/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Dibenzofuran	3000	300	ug/Kg	05/31/12		KCA	SW 8270	
Diethyl phthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Dimethylphthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-butylphthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-octylphthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Fluoranthene	13000	300	ug/Kg	05/31/12		KCA	SW 8270	
Fluorene	3600	300	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobutadiene	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Hexachloroethane	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	780	300	ug/Kg	05/31/12		KCA	SW 8270	
Isophorone	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Naphthalene	12000	300	ug/Kg	05/31/12		KCA	SW 8270	
Nitrobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	880	ug/Kg	05/31/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270	1
Pentachlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Phenanthrene	21000	300	ug/Kg	05/31/12		KCA	SW 8270	
Phenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270	
Pyrene	11000	300	ug/Kg	05/31/12		KCA	SW 8270	
Pyridine	ND	300	ug/Kg	05/31/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	90		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	69		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	78		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	81		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	81		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	77		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

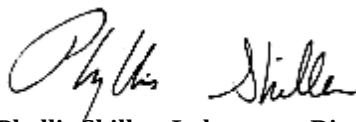
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/30/12	8:45
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91713

Project ID: 145 WEST ST

Client ID: WS FS

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	06/01/12		EK	6010
Aluminum	9880 N	43	mg/Kg	06/01/12		EK	6010
Arsenic	6.86	0.87	mg/Kg	06/01/12		EK	6010
Barium	245	0.87	mg/Kg	06/01/12		EK	6010
Beryllium	0.45	0.35	mg/Kg	06/01/12		EK	6010
Calcium	1800	4.3	mg/Kg	06/01/12		EK	6010
Cadmium	< 0.43	0.43	mg/Kg	06/01/12		EK	6010
Cobalt	7.86	0.43	mg/Kg	06/01/12		EK	6010
Chromium	21.3	0.43	mg/Kg	06/01/12		EK	6010
Copper	175	4.3	mg/kg	06/01/12		EK	6010
Iron	29300 *	43	mg/Kg	06/01/12		EK	6010
Mercury	3.33	0.21	mg/Kg	05/31/12		RS	SW-7471
Potassium	1480	87	mg/Kg	06/01/12		EK	6010
Magnesium	2210	4.3	mg/Kg	06/01/12		EK	6010
Manganese	291	4.3	mg/Kg	06/01/12		EK	6010
Sodium	287	9	mg/Kg	06/01/12		EK	6010
Nickel	14.0	0.43	mg/Kg	06/01/12		EK	6010
Lead	349	8.7	mg/Kg	06/01/12		EK	6010
Antimony	16.2	2.2	mg/Kg	06/01/12		LK	6010
Selenium	< 1.7	1.7	mg/Kg	06/01/12		EK	6010
Thallium	< 1.7	1.7	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	25.9	0.43	mg/Kg	06/01/12		EK	6010
Zinc	101 *	0.87	mg/Kg	06/01/12		EK	6010
Percent Solid	77		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	32	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	06/01/12		R/J	SW8260
Acetone	ND	65	ug/Kg	06/01/12		R/J	SW8260 B
Acrylonitrile	ND	13	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260 1P
Dibromomethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	39	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	5.1 JS	6.5	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.5	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	100		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	98		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	104		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	480	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	300	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	480	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	300	ug/Kg	05/31/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	600	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	480	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
4-Chloroaniline	ND	600	ug/Kg	05/31/12		KCA	SW 8270
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270
4-Nitroaniline	ND	480	ug/Kg	05/31/12		KCA	SW 8270
4-Nitrophenol	ND	870	ug/Kg	05/31/12		KCA	SW 8270
Acenaphthene	220 J	300	ug/Kg	05/31/12		KCA	SW 8270
Acenaphthylene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Acetophenone	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Aniline	ND	870	ug/Kg	05/31/12		KCA	SW 8270 LO
Anthracene	490	300	ug/Kg	05/31/12		KCA	SW 8270
Azobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270 1
Benz(a)anthracene	740	300	ug/Kg	05/31/12		KCA	SW 8270
Benzidine	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Benzo(a)pyrene	620	300	ug/Kg	05/31/12		KCA	SW 8270
Benzo(b)fluoranthene	810	300	ug/Kg	05/31/12		KCA	SW 8270
Benzo(ghi)perylene	220 J	300	ug/Kg	05/31/12		KCA	SW 8270
Benzo(k)fluoranthene	320	300	ug/Kg	05/31/12		KCA	SW 8270
Benzoic acid	ND	870	ug/Kg	05/31/12		KCA	SW 8270 LO
Benzyl butyl phthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroethyl)ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Carbazole	ND	870	ug/Kg	05/31/12		KCA	SW 8270
Chrysene	680	300	ug/Kg	05/31/12		KCA	SW 8270
Dibenz(a,h)anthracene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Dibenzofuran	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Diethyl phthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Dimethylphthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Di-n-butylphthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Di-n-octylphthalate	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Fluoranthene	1700	300	ug/Kg	05/31/12		KCA	SW 8270
Fluorene	270 J	300	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorobutadiene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Hexachlorocyclopentadiene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Hexachloroethane	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Indeno(1,2,3-cd)pyrene	200 J	300	ug/Kg	05/31/12		KCA	SW 8270
Isophorone	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Naphthalene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Nitrobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodimethylamine	ND	300	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	05/31/12		KCA	SW 8270
N-Nitrosodiphenylamine	ND	870	ug/Kg	05/31/12		KCA	SW 8270
Pentachloronitrobenzene	ND	300	ug/Kg	05/31/12		KCA	SW 8270 1
Pentachlorophenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Phenanthrene	1600	300	ug/Kg	05/31/12		KCA	SW 8270
Phenol	ND	300	ug/Kg	05/31/12		KCA	SW 8270
Pyrene	1400	300	ug/Kg	05/31/12		KCA	SW 8270
Pyridine	ND	300	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	94		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	61		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	74		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	73		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	76		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	81		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

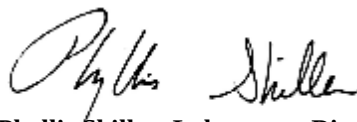
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 11, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
05/30/12	11:00
05/30/12	17:36

Laboratory Data

SDG ID: GBB91705
Phoenix ID: BB91714

Project ID: 145 WEST ST
Client ID: WS GS

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	11.4	0.40	mg/Kg	06/01/12		EK	6010
Aluminum	7150 N	40	mg/Kg	06/01/12		EK	6010
Arsenic	19.4	0.79	mg/Kg	06/01/12		EK	6010
Barium	92.3	0.79	mg/Kg	06/01/12		EK	6010
Beryllium	0.39	0.32	mg/Kg	06/01/12		EK	6010
Calcium	3500	4.0	mg/Kg	06/01/12		EK	6010
Cadmium	6.27	0.40	mg/Kg	06/01/12		EK	6010
Cobalt	6.02	0.40	mg/Kg	06/01/12		EK	6010
Chromium	19.3	0.40	mg/Kg	06/01/12		EK	6010
Copper	25300	400	mg/kg	06/01/12		EK	6010
Iron	17300 *	40	mg/Kg	06/01/12		EK	6010
Mercury	0.39	0.14	mg/Kg	05/31/12		RS	SW-7471
Potassium	1410	79	mg/Kg	06/01/12		EK	6010
Magnesium	3210	4.0	mg/Kg	06/01/12		EK	6010
Manganese	192	4.0	mg/Kg	06/01/12		EK	6010
Sodium	1920	8	mg/Kg	06/01/12		EK	6010
Nickel	27.0	0.40	mg/Kg	06/01/12		EK	6010
Lead	3190	79	mg/Kg	06/01/12		EK	6010
Antimony	7.8	2.0	mg/Kg	06/01/12		LK	6010
Selenium	< 1.6	1.6	mg/Kg	06/01/12		EK	6010
Thallium	< 1.6	1.6	mg/Kg	06/01/12		EK	6010
Total Metals Digest	Completed			05/30/12		AG	SW846 - 3050
Vanadium	28.6	0.40	mg/Kg	06/01/12		EK	6010
Zinc	9830 *	79	mg/Kg	06/01/12		EK	6010
Percent Solid	81		%	05/30/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/30/12		BS/F	SW3545
Mercury Digestion	Completed			05/31/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	31	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	06/01/12		R/J	SW8260
Acetone	ND	62	ug/Kg	06/01/12		R/J	SW8260 B
Acrylonitrile	ND	12	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1P
Dibromomethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	37	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	5.1 JS	6.2	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.2	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	99		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	96		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	104		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrophenol	ND	450	ug/Kg	05/31/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Chlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	05/31/12		KCA	SW 8270
2-Nitroaniline	ND	450	ug/Kg	05/31/12		KCA	SW 8270
2-Nitrophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	05/31/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	560	ug/Kg	05/31/12		KCA	SW 8270
3-Nitroaniline	ND	450	ug/Kg	05/31/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
4-Chloroaniline	ND	560	ug/Kg	05/31/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitroaniline	ND	450	ug/Kg	05/31/12		KCA	SW 8270	
4-Nitrophenol	ND	810	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthene	300	280	ug/Kg	05/31/12		KCA	SW 8270	
Acenaphthylene	290	280	ug/Kg	05/31/12		KCA	SW 8270	
Acetophenone	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Aniline	ND	810	ug/Kg	05/31/12		KCA	SW 8270	LO
Anthracene	680	280	ug/Kg	05/31/12		KCA	SW 8270	
Azobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	1
Benz(a)anthracene	2400	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzidine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(a)pyrene	2800	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(b)fluoranthene	3600	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(ghi)perylene	1100	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzo(k)fluoranthene	1700	280	ug/Kg	05/31/12		KCA	SW 8270	
Benzoic acid	ND	810	ug/Kg	05/31/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Carbazole	ND	810	ug/Kg	05/31/12		KCA	SW 8270	
Chrysene	2200	280	ug/Kg	05/31/12		KCA	SW 8270	
Dibenz(a,h)anthracene	320	280	ug/Kg	05/31/12		KCA	SW 8270	
Dibenzofuran	170 J	280	ug/Kg	05/31/12		KCA	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Fluoranthene	3800	280	ug/Kg	05/31/12		KCA	SW 8270	
Fluorene	290	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Hexachloroethane	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	950	280	ug/Kg	05/31/12		KCA	SW 8270	
Isophorone	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Naphthalene	260 J	280	ug/Kg	05/31/12		KCA	SW 8270	
Nitrobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	810	ug/Kg	05/31/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	280	ug/Kg	05/31/12		KCA	SW 8270	1
Pentachlorophenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Phenanthrene	2600	280	ug/Kg	05/31/12		KCA	SW 8270	
Phenol	ND	280	ug/Kg	05/31/12		KCA	SW 8270	
Pyrene	3500	280	ug/Kg	05/31/12		KCA	SW 8270	
Pyridine	ND	280	ug/Kg	05/31/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	91		%	05/31/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	68		%	05/31/12		KCA	19 - 122 %
% 2-Fluorophenol	73		%	05/31/12		KCA	19 - 122 %
% Nitrobenzene-d5	83		%	05/31/12		KCA	19 - 122 %
% Phenol-d5	73		%	05/31/12		KCA	19 - 122 %
% Terphenyl-d14	71		%	05/31/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

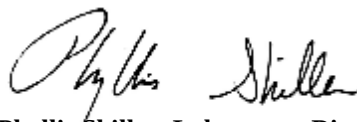
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 11, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Tuesday, June 12, 2012

Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST STREET
Sample ID#s: BB92293 - BB92295

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

June 12, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
05/30/12 0:00
05/31/12 17:30

Laboratory Data

SDG ID: GBB92293
Phoenix ID: BB92293

Project ID: 145 WEST STREET

Client ID: WS H 5

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/01/12		LK	6010
Aluminum	5180 N	41	mg/Kg	06/01/12		EK	6010
Arsenic	4.24	0.82	mg/Kg	06/01/12		LK	6010
Barium	104	0.82	mg/Kg	06/01/12		EK	6010
Beryllium	0.40	0.33	mg/Kg	06/01/12		LK	6010
Calcium	3010 N	4.1	mg/Kg	06/01/12		EK	6010
Cadmium	< 0.41	0.41	mg/Kg	06/01/12		LK	6010
Cobalt	6.06	0.41	mg/Kg	06/01/12		EK	6010
Chromium	10.3	0.41	mg/Kg	06/01/12		LK	6010
Copper	142	0.41	mg/kg	06/01/12		LK	6010 B
Iron	19000 N	41	mg/Kg	06/01/12		EK	6010
Mercury	0.06 B	0.09	mg/Kg	06/01/12		RS	SW-7471
Potassium	1000 N	82	mg/Kg	06/01/12		EK	6010
Magnesium	2050 N	4.1	mg/Kg	06/01/12		EK	6010
Manganese	197	4.1	mg/Kg	06/01/12		EK	6010
Sodium	228	8	mg/Kg	06/01/12		EK	6010
Nickel	13.3	0.41	mg/Kg	06/01/12		LK	6010
Lead	310	8.2	mg/Kg	06/01/12		LK	6010 B
Antimony	< 2.1	2.1	mg/Kg	06/01/12		LK	6010
Selenium	< 1.6 N	1.6	mg/Kg	06/01/12		LK	6010
Thallium	< 1.6	1.6	mg/Kg	06/01/12		LK	6010
Total Metals Digest	Completed			05/31/12		AG	SW846 - 3050
Vanadium	18.0	0.41	mg/Kg	06/01/12		EK	6010
Zinc	105	0.82	mg/Kg	06/01/12		LK	6010
Percent Solid	78		%	05/31/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/31/12		BS/F	SW3545
Mercury Digestion	Completed			06/01/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	32	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	06/01/12		R/J	SW8260
Acetone	14 JS	64	ug/Kg	06/01/12		R/J	SW8260 B*
Acrylonitrile	ND	13	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Dibromomethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	38	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	1.9 JS	6.4	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.4	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	95		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	97		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	104		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	470	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	1000	290	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	470	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	ug/Kg	06/03/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	590	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	470	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	590	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	470	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	850	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	5700	290	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	850	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	9200	290	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	13000	290	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	11000	290	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	12000	290	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	3800	290	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	3500	290	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	850	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	4700	850	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	12000	290	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	1400	290	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	4300	290	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	30000	290	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	5700	290	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	3700	290	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	2000	290	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	850	ug/Kg	06/03/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270	1
Pentachlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Phenanthrene	44000	290	ug/Kg	06/03/12		KCA	SW 8270	
Phenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270	
Pyrene	27000	290	ug/Kg	06/03/12		KCA	SW 8270	
Pyridine	ND	290	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	111		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	77		%	06/03/12		KCA	19 - 122 %
% 2-Fluorophenol	83		%	06/03/12		KCA	19 - 122 %
% Nitrobenzene-d5	80		%	06/03/12		KCA	19 - 122 %
% Phenol-d5	77		%	06/03/12		KCA	19 - 122 %
% Terphenyl-d14	88		%	06/03/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

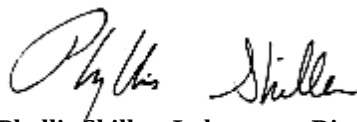
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 12, 2012

Reviewed and Released by: Bobbi Aloisa, Vice President



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



Analysis Report

June 12, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date	Time
05/30/12	0:00
05/31/12	17:30

Laboratory Data

SDG ID: GBB92293
Phoenix ID: BB92294

Project ID: 145 WEST STREET

Client ID: WS I 5

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	06/01/12		LK	6010
Aluminum	7840 N	35	mg/Kg	06/01/12		EK	6010
Arsenic	4.22	0.71	mg/Kg	06/01/12		LK	6010
Barium	74.4	0.71	mg/Kg	06/01/12		EK	6010
Beryllium	0.39	0.28	mg/Kg	06/01/12		LK	6010
Calcium	2220 N	3.5	mg/Kg	06/01/12		EK	6010
Cadmium	0.195 B	0.35	mg/Kg	06/01/12		LK	6010
Cobalt	7.15	0.35	mg/Kg	06/01/12		EK	6010
Chromium	14.5	0.35	mg/Kg	06/01/12		LK	6010
Copper	37.3	0.35	mg/kg	06/01/12		LK	6010 B
Iron	16600 N	35	mg/Kg	06/01/12		EK	6010
Mercury	< 0.09	0.09	mg/Kg	06/01/12		RS	SW-7471
Potassium	1130 N	71	mg/Kg	06/01/12		EK	6010
Magnesium	2990 N	3.5	mg/Kg	06/01/12		EK	6010
Manganese	301	3.5	mg/Kg	06/01/12		EK	6010
Sodium	211	7	mg/Kg	06/01/12		EK	6010
Nickel	14.9	0.35	mg/Kg	06/01/12		LK	6010
Lead	94.1	0.71	mg/Kg	06/01/12		LK	6010 B
Antimony	< 1.8	1.8	mg/Kg	06/01/12		LK	6010
Selenium	< 1.4 N	1.4	mg/Kg	06/01/12		LK	6010
Thallium	< 1.4	1.4	mg/Kg	06/01/12		LK	6010
Total Metals Digest	Completed			05/31/12		AG	SW846 - 3050
Vanadium	23.0	0.35	mg/Kg	06/01/12		EK	6010
Zinc	126	0.71	mg/Kg	06/01/12		LK	6010
Percent Solid	84		%	05/31/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/31/12		BS/F	SW3545
Mercury Digestion	Completed			06/01/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/01/12		R/J	SW8260
Acetone	13 JS	60	ug/Kg	06/01/12		R/J	SW8260 B*
Acrylonitrile	ND	12	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	36	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	2.0 JS	6.0	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	92		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	106		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	550	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	550	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	800	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	800	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	630	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	560	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	720	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	310	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	240 J	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	800	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	ND	800	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	630	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	1400	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	320	280	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	800	ug/Kg	06/03/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Pentachlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenanthrene	820	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyrene	1200	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyridine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	97		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/03/12		KCA	19 - 122 %
% 2-Fluorophenol	83		%	06/03/12		KCA	19 - 122 %
% Nitrobenzene-d5	79		%	06/03/12		KCA	19 - 122 %
% Phenol-d5	77		%	06/03/12		KCA	19 - 122 %
% Terphenyl-d14	83		%	06/03/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

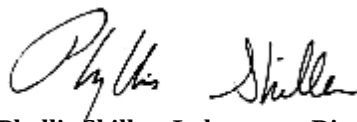
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 12, 2012

Reviewed and Released by: Bobbi Aloisa, Vice President



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



Analysis Report

June 12, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date	Time
05/30/12	0:00
05/31/12	17:30

Laboratory Data

SDG ID: GBB92293
Phoenix ID: BB92295

Project ID: 145 WEST STREET

Client ID: WS J 5

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	06/01/12		LK	6010
Aluminum	8240 N	40	mg/Kg	06/01/12		EK	6010
Arsenic	3.05	0.79	mg/Kg	06/01/12		LK	6010
Barium	66.7	0.79	mg/Kg	06/01/12		EK	6010
Beryllium	0.37	0.32	mg/Kg	06/01/12		LK	6010
Calcium	1000 N	4.0	mg/Kg	06/01/12		EK	6010
Cadmium	< 0.40	0.40	mg/Kg	06/01/12		LK	6010
Cobalt	7.42	0.40	mg/Kg	06/01/12		EK	6010
Chromium	13.3	0.40	mg/Kg	06/01/12		LK	6010
Copper	20.0	0.40	mg/kg	06/01/12		LK	6010 B
Iron	18400 N	40	mg/Kg	06/01/12		EK	6010
Mercury	< 0.08	0.08	mg/Kg	06/01/12		RS	SW-7471
Potassium	1080 N	79	mg/Kg	06/01/12		EK	6010
Magnesium	3100 N	4.0	mg/Kg	06/01/12		EK	6010
Manganese	246	4.0	mg/Kg	06/01/12		EK	6010
Sodium	189	8	mg/Kg	06/01/12		EK	6010
Nickel	16.8	0.40	mg/Kg	06/01/12		LK	6010
Lead	29.9	0.79	mg/Kg	06/01/12		LK	6010 B
Antimony	< 2.0	2.0	mg/Kg	06/01/12		LK	6010
Selenium	< 1.6 N	1.6	mg/Kg	06/01/12		LK	6010
Thallium	< 1.6	1.6	mg/Kg	06/01/12		LK	6010
Total Metals Digest	Completed			05/31/12		AG	SW846 - 3050
Vanadium	16.8	0.40	mg/Kg	06/01/12		EK	6010
Zinc	67.6	0.79	mg/Kg	06/01/12		LK	6010
Percent Solid	84		%	05/31/12		JL	E160.3
Soil Extraction for SVOA	Completed			05/31/12		BS/F	SW3545
Mercury Digestion	Completed			06/01/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/01/12		R/J	SW8260
Acetone	8.3 JS	60	ug/Kg	06/01/12		R/J	SW8260 B*
Acrylonitrile	ND	12	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dibromoethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	36	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	1.7 JS	6.0	ug/Kg	06/01/12		R/J	SW8260 B*
Naphthalene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/01/12		R/J	SW8260 1
Toluene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	06/01/12		R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/01/12		R/J	70 - 121 %
% Dibromofluoromethane	97		%	06/01/12		R/J	70 - 121 %
% Toluene-d8	104		%	06/01/12		R/J	70 - 121 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	06/03/12		KCA	SW 8270 1
3,3'-Dichlorobenzidine	ND	550	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	550	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	790	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	790	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	500	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	420	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	540	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	230 J	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	180 J	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	790	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	ND	790	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	540	270	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	1100	270	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	210 J	270	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	790	ug/Kg	06/03/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	1
Pentachlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Phenanthrene	930	270	ug/Kg	06/03/12		KCA	SW 8270	
Phenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Pyrene	1100	270	ug/Kg	06/03/12		KCA	SW 8270	
Pyridine	ND	270	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	88		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	75		%	06/03/12		KCA	19 - 122 %
% 2-Fluorophenol	82		%	06/03/12		KCA	19 - 122 %
% Nitrobenzene-d5	81		%	06/03/12		KCA	19 - 122 %
% Phenol-d5	80		%	06/03/12		KCA	19 - 122 %
% Terphenyl-d14	81		%	06/03/12		KCA	19 - 122 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

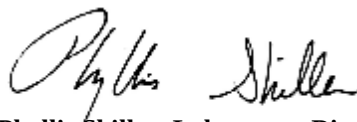
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 12, 2012

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

Temp 46 Pg of 1

Data Delivery: ☒ Fax # Rec'd on 6-1-12

☐ Email: _____

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

Client Services (860) 645-8726

Project P.O.: 145 West Street

Phone #: 630-611-1234

Fax #: 630-611-1234

Customer: Calli Engineering

Address: _____

Project: 145 West Street

Report to: K. Branks

Invoice to: K. Branks

Analysis Request: NYC 8770

Date: 5/30/12

Sampler's Signature	Client Sample - Information - Identification	Date	Analysis Request	Time Sampled	Date Sampled	Sample Matrix	Time Sampled
<u>Scott Davidson</u>	<u>WW=wastewater S=soil/solid O=oil</u> <u>SL=sediment A=air X=other</u>	<u>5/30/12</u>	<u>NYC 8770</u>				
	Phoenix Sample #	Customer Sample Identification					
	<u>92293</u>	<u>WS HS</u>	<u>X</u>				
	<u>92294</u>	<u>WS IS</u>	<u>X</u>				
	<u>92295</u>	<u>WS IS</u>	<u>X</u>				
	<u>92296</u>	<u>TRIP Blank</u>	<u>X</u>				

Relinquished by: Scott Davidson Accepted by: Calli Engineering

Date: 5-31-12 Time: 12:30

Date: 5-31-12 Time: 17:30

Comments, Special Requirements or Regulations:

Vol from 602 jar

* per Scott they need for metals test not for metals

* ND TB rec'd emailed Client 6-1-12

NY Data Format

☒ TOGS GA GW

☒ CP-51 Soil

☒ NY375 Unrestricted Soil

☒ NY375 Residential Soil

☒ NY375 Restricted Non-Residential Soil

NJ Data Format

☒ Res. Criteria

☒ Non-Res. Criteria

☒ Impact to GW Soil Cleanup Criteria

☒ GW Criteria

Turnaround:

☐ 1 Day*

☐ 2 Days*

☐ 3 Days*

☐ 5 Days

☒ 10 Days

☐ Other

NY Data Package

☒ Phoenix Std Report

☒ Excel

☒ PDF

☒ GISKey

☒ EQUIS

☒ NJ Hazle EDD

☒ NY EZ EDD (ASP)

☐ Other

NJ Data Package

☒ NJ Reduced Deliv. *

☒ NY Enhanced (ASP B) *

☐ Other

State where samples were collected:

NY

Shannon - Phoenixlabs

From: Scott Davidow [sdavidow@gallieng.com]

Sent: Friday, June 01, 2012 11:19 AM

To: shannon@phoenixlabs.com

Subject: RE: 145 WEST STREET

Hi Shannon,

I will have Frank include a trip blank in the next submittal.

Scott Davidow

Environmental Scientist

Galli Engineering, P.C.

Phone: 631-271-9292

Fax: 631-271-9345

6/1/2012



Monday, June 25, 2012

Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST ST.

Sample ID#s: BB92733 - BB92737, BB92739 - BB92741, BB92974

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
05/31/12	0:00
06/01/12	16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92733

Project ID: 145 WEST ST.

Client ID: WS-K5

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	06/06/12		LK	SW6010
Aluminum	6130 N	39	mg/Kg	06/06/12		LK	SW6010
Arsenic	3.68	0.77	mg/Kg	06/06/12		LK	SW6010
Barium	92.2	0.77	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.34	0.31	mg/Kg	06/06/12		LK	SW6010
Calcium	11200 N	3.9	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	06/06/12		LK	SW6010
Cobalt	4.54	0.39	mg/Kg	06/06/12		LK	SW6010
Chromium	10.5	0.39	mg/Kg	06/06/12		LK	SW6010
Copper	15.0	0.39	mg/kg	06/06/12		LK	SW6010 B
Iron	11200 N	3.9	mg/Kg	06/06/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/04/12		RS	SW-7471
Potassium	1070 N	77	mg/Kg	06/06/12		LK	SW6010
Magnesium	2390 N	3.9	mg/Kg	06/06/12		LK	SW6010
Manganese	161	3.9	mg/Kg	06/06/12		LK	SW6010
Sodium	148	8	mg/Kg	06/06/12		LK	SW6010 B
Nickel	11.4	0.39	mg/Kg	06/06/12		LK	SW6010
Lead	43.4 *	0.77	mg/Kg	06/06/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050
Vanadium	15.9	0.39	mg/Kg	06/06/12		LK	SW6010
Zinc	65.4	0.77	mg/Kg	06/06/12		LK	SW6010 B
Percent Solid	83		%	06/01/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/01/12		BB/F	SW3545
Mercury Digestion	Completed			06/04/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trimethylbenzene	2.4 J	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
Acetone	ND	60	ug/Kg	06/05/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/05/12		R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Dibromochloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	36	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	2.1 JS	6.0	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	7.1	6.0	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	1.5 J	6.0	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	1.8 J	6.0	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Toluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	96		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	100		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	100		%	06/05/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	17000	270	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	06/03/12		KCA	SW 8270
3,3'-Dichlorobenzidine	ND	540	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
4-Chloroaniline	ND	540	ug/Kg	06/03/12		KCA	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270
4-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
4-Nitrophenol	ND	790	ug/Kg	06/03/12		KCA	SW 8270
Acenaphthene	1200	270	ug/Kg	06/03/12		KCA	SW 8270
Acenaphthylene	230 J	270	ug/Kg	06/03/12		KCA	SW 8270
Acetophenone	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Aniline	ND	790	ug/Kg	06/03/12		KCA	SW 8270 LO
Anthracene	500	270	ug/Kg	06/03/12		KCA	SW 8270
Azobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270 1
Benz(a)anthracene	450	270	ug/Kg	06/03/12		KCA	SW 8270
Benzidine	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Benzo(a)pyrene	300	270	ug/Kg	06/03/12		KCA	SW 8270
Benzo(b)fluoranthene	350	270	ug/Kg	06/03/12		KCA	SW 8270
Benzo(ghi)perylene	180 J	270	ug/Kg	06/03/12		KCA	SW 8270
Benzo(k)fluoranthene	230 J	270	ug/Kg	06/03/12		KCA	SW 8270
Benzoic acid	ND	790	ug/Kg	06/03/12		KCA	SW 8270 LO
Benzyl butyl phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-chloroethyl)ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Carbazole	ND	790	ug/Kg	06/03/12		KCA	SW 8270
Chrysene	470	270	ug/Kg	06/03/12		KCA	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Dibenzofuran	650	270	ug/Kg	06/03/12		KCA	SW 8270
Diethyl phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Fluoranthene	900	270	ug/Kg	06/03/12		KCA	SW 8270
Fluorene	1700	270	ug/Kg	06/03/12		KCA	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Hexachloroethane	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Indeno(1,2,3-cd)pyrene	150 J	270	ug/Kg	06/03/12		KCA	SW 8270
Isophorone	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Naphthalene	2600	270	ug/Kg	06/03/12		KCA	SW 8270
Nitrobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
N-Nitrosodimethylamine	ND	270	ug/Kg	06/03/12		KCA	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/03/12		KCA	SW 8270
N-Nitrosodiphenylamine	ND	790	ug/Kg	06/03/12		KCA	SW 8270
Pentachloronitrobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270 1
Pentachlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Phenanthrene	5200	270	ug/Kg	06/03/12		KCA	SW 8270
Phenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Pyrene	1400	270	ug/Kg	06/03/12		KCA	SW 8270
Pyridine	ND	270	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	111		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/03/12		KCA	30 - 115 %
% 2-Fluorophenol	77		%	06/03/12		KCA	25 - 121 %
% Nitrobenzene-d5	106		%	06/03/12		KCA	23 - 120 %
% Phenol-d5	98		%	06/03/12		KCA	24 - 113 %
% Terphenyl-d14	83		%	06/03/12		KCA	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

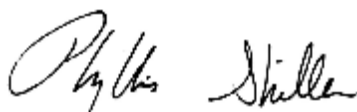
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
05/31/12 11:45
06/01/12 16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92734

Project ID: 145 WEST ST.

Client ID: WS-K4

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	06/06/12		LK	SW6010
Aluminum	8170 N	36	mg/Kg	06/06/12		LK	SW6010
Arsenic	2.67	0.73	mg/Kg	06/06/12		LK	SW6010
Barium	48.4	0.73	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.35	0.29	mg/Kg	06/06/12		LK	SW6010
Calcium	1900 N	3.6	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	06/06/12		LK	SW6010
Cobalt	5.69	0.36	mg/Kg	06/06/12		LK	SW6010
Chromium	13.0	0.36	mg/Kg	06/06/12		LK	SW6010
Copper	15.1	0.36	mg/kg	06/06/12		LK	SW6010 B
Iron	12700 N	36	mg/Kg	06/06/12		LK	SW6010
Mercury	< 0.10	0.10	mg/Kg	06/04/12		RS	SW-7471
Potassium	1030 N	73	mg/Kg	06/06/12		LK	SW6010
Magnesium	2920 N	3.6	mg/Kg	06/06/12		LK	SW6010
Manganese	123	0.36	mg/Kg	06/06/12		LK	SW6010
Sodium	95	7	mg/Kg	06/06/12		LK	SW6010 B
Nickel	13.0	0.36	mg/Kg	06/06/12		LK	SW6010
Lead	5.69 *	0.73	mg/Kg	06/06/12		LK	SW6010
QC for Mercury	Completed			06/13/12		RS	
QC for ICP	Completed			06/06/12			SW6010
Antimony	< 1.8	1.8	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Total Metals Digest MS/MSD	Completed			06/02/12			
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050
Vanadium	16.4	0.36	mg/Kg	06/06/12		LK	SW6010
Zinc	45.5	0.73	mg/Kg	06/06/12		LK	SW6010 B
Percent Solid	83		%	06/01/12		JL	E160.3

Parameter	Result	RL	Units	Date	Time	By	Reference
Soil Extraction for SVOA	Completed			06/01/12		BB/F	SW3545
Mercury Digestion MS/MSD	Completed			06/04/12			SW7471
Mercury Digestion	Completed			06/04/12		X/X	SW7471
MS/MSD Ext. for Semi-Vol.	Completed			06/01/12			
QC for Volatile	Completed			06/05/12		R/J	
MS/MSD Volatiles	Completed			06/05/12		R/J	

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,1-Dichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,1-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,1-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	1
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,2-Dibromoethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,2-Dichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,2-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,3-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
2,2-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
2-Chlorotoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
2-Hexanone	ND	30	ug/Kg	06/05/12		R/J	SW8260	
2-Isopropyltoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	1
4-Chlorotoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
4-Methyl-2-pentanone	ND	30	ug/Kg	06/05/12		R/J	SW8260	
Acetone	6.4 JS	60	ug/Kg	06/05/12		R/J	SW8260	
Acrylonitrile	ND	12	ug/Kg	06/05/12		R/J	SW8260	
Benzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Bromobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Bromochloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Bromodichloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Bromoform	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Bromomethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Carbon Disulfide	1.2 J	6.0	ug/Kg	06/05/12		R/J	SW8260	
Carbon tetrachloride	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Chlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Chloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Chloroform	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Chloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	
Dibromochloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260	

Parameter	Result	RL	Units	Date	Time	By	Reference
Dibromomethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	1.9 JS	6.0	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	11	6.0	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Toluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	2.3 J	6.0	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	93		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/05/12		R/J	84 - 138 %
QC for Semi-Volatile	Completed			06/04/12			
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	450	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
2-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270	
2-Nitrophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
3,3'-Dichlorobenzidine	ND	560	ug/Kg	06/03/12		KCA	SW 8270	
3-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270	
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	560	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	820	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	820	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	820	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	ND	820	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
N-Nitrosodiphenylamine	ND	820	ug/Kg	06/03/12		KCA	SW 8270
Pentachloronitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
Pentachlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
Phenanthrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
Phenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
Pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
Pyridine	ND	280	ug/Kg	06/03/12		KCA	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	76		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	66		%	06/03/12		KCA	30 - 115 %
% 2-Fluorophenol	76		%	06/03/12		KCA	25 - 121 %
% Nitrobenzene-d5	81		%	06/03/12		KCA	23 - 120 %
% Phenol-d5	82		%	06/03/12		KCA	24 - 113 %
% Terphenyl-d14	72		%	06/03/12		KCA	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

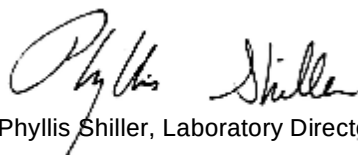
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date

05/31/12

Time

0:00

06/01/12

16:23

Laboratory Data

SDG ID: GBB92733

Phoenix ID: BB92735

Project ID: 145 WEST ST.

Client ID: WS-K3

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	06/06/12		LK	SW6010
Aluminum	5310 N	37	mg/Kg	06/06/12		LK	SW6010
Arsenic	1.76	0.74	mg/Kg	06/06/12		LK	SW6010
Barium	32.5	0.74	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.30	0.29	mg/Kg	06/06/12		LK	SW6010
Calcium	868 N	3.7	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	06/06/12		LK	SW6010
Cobalt	6.70	0.37	mg/Kg	06/06/12		LK	SW6010
Chromium	12.2	0.37	mg/Kg	06/06/12		LK	SW6010
Copper	8.02	0.37	mg/kg	06/06/12		LK	SW6010 B
Iron	9600 N	3.7	mg/Kg	06/06/12		LK	SW6010
Mercury	0.08 B	0.09	mg/Kg	06/04/12		RS	SW-7471
Potassium	930 N	74	mg/Kg	06/06/12		LK	SW6010
Magnesium	2030 N	3.7	mg/Kg	06/06/12		LK	SW6010
Manganese	86.8	0.37	mg/Kg	06/06/12		LK	SW6010
Sodium	205	7	mg/Kg	06/06/12		LK	SW6010 B
Nickel	12.0	0.37	mg/Kg	06/06/12		LK	SW6010
Lead	7.67 *	0.74	mg/Kg	06/06/12		LK	SW6010
Antimony	< 1.8	1.8	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
TCLP Silver	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Barium	0.24	0.10	mg/L	06/15/12		LK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/15/12		LK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/14/12		RS	SW7470
TCLP Lead	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Selenium	< 0.10	0.10	mg/L	06/15/12		LK	SW6010

Parameter	Result	RL	Units	Date	Time	By	Reference	
Thallium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010	
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050	
TCLP Metals Digestion	Completed			06/14/12		X/X	SW3005	
Vanadium	13.8	0.37	mg/Kg	06/06/12		LK	SW6010	
Zinc	35.3	0.74	mg/Kg	06/06/12		LK	SW6010	B
Percent Solid	80		%	06/01/12		JL	E160.3	
Corrosivity	Negative	NONE	None	06/13/12		O/EG	SM 2330	1
Flash Point	>200	200	degree F	06/14/12		Y	SW1010	
Ignitability	Passed	140	deg F	06/14/12		Y	SW1010	
pH - Soil	7.95	0.10	pH Units	06/13/12	23:00	O/EG	4500-H B/9045	1
Reactivity Cyanide	< 6.0	6.0	mg/Kg	06/14/12		JL/GD	SW 846-7.3	1
Reactivity Sulfide	< 20	20	mg/Kg	06/14/12		JL/GD	SW846-7.3	1
Reactivity	Negative		Pos/Neg	06/14/12		JL/GD	SW 846-7.3	1
Soil Extraction for SVOA	Completed			06/01/12		BB/F	SW3545	
Mercury Digestion	Completed			06/04/12		X/X	SW7471	
Extraction of NJ QAM-025	Completed			06/13/12		JS/D	3545	
TCLP Digestion Mercury	Completed			06/14/12		X	E1311/7470	
TCLP Herbicides Extraction	Completed			06/15/12		D	SW8150 Mod	
TCLP Extraction for Metals	Completed			06/13/12		x	EPA 1311	
TCLP Extraction for Organics	Completed			06/13/12		x	1311	
TCLP Pesticides Extraction	Completed			06/14/12		L	SW3510	
TCLP Semi-Volatile Extraction	Completed			06/14/12		L	SW3510	
TCLP Extraction Volatiles	Completed			06/13/12		y	EPA 1311	

TPH by GC (QAM-025)

Total Petroleum Hydrocarbon	ND	94	mg/Kg	06/15/12		JRB	QAM-025	1
<u>QA/QC Surrogates</u>								
% Chlorobenzene (surrogate)	61		%	06/15/12		JRB	50 - 150 %	
% Pentacosane (surrogate)	69		%	06/15/12		JRB	50 - 150 %	

TCLP Herbicides

2,4,5-TP (Silvex)	ND	4.2	ug/L	06/18/12		JRB	SW8151	
2,4-D	ND	4.2	ug/L	06/18/12		JRB	SW8151	
<u>QA/QC Surrogates</u>								
% DCAA	85		%	06/18/12		JRB	30 - 150 %	

TCLP Pesticides

4,4' -DDD	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
4,4' -DDE	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
4,4' -DDT	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
a-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Alachlor	ND	0.05	ug/L	06/18/12		KCA	SW 8081	1
Aldrin	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
b-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Chlordane	ND	0.3	ug/L	06/18/12		KCA	SW 8081	
d-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Dieldrin	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endosulfan I	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Endosulfan II	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endosulfan Sulfate	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endrin	ND	0.1	ug/L	06/18/12		KCA	SW 8081	

Parameter	Result	RL	Units	Date	Time	By	Reference
Endrin Aldehyde	ND	0.1	ug/L	06/18/12		KCA	SW 8081
g-BHC (Lindane)	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Heptachlor	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Heptachlor epoxide	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Methoxychlor	ND	0.2	ug/L	06/18/12		KCA	SW 8081
Toxaphene	ND	1.0	ug/L	06/18/12		KCA	SW 8081
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	110		%	06/18/12		KCA	30 - 150 %
%TCMX (Surrogate Rec)	76		%	06/18/12		KCA	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloropropene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichloropropane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
2,2-Dichloropropane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
2-Chlorotoluene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
2-Hexanone	ND	31	ug/Kg	06/05/12		R/J	SW8260
2-Isopropyltoluene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	06/05/12		R/J	SW8260
Acetone	ND	63	ug/Kg	06/05/12		R/J	SW8260
Acrylonitrile	ND	13	ug/Kg	06/05/12		R/J	SW8260
Benzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Bromobenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Bromochloromethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Bromoform	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Bromomethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Chlorobenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260 B
Chloroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Chloroform	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Chloromethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Dibromochloromethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Dibromomethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Ethylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Methyl Ethyl Ketone	ND	38	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	2.9 JS	6.3	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	1.8 J	6.3	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	06/05/12		R/J	SW8260 1
Toluene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	6.3	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	99		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	103		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	101		%	06/05/12		R/J	84 - 138 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
1,2-Dichloroethane	ND	50	ug/L	06/15/12		H/J	SW8260
Benzene	ND	50	ug/L	06/15/12		H/J	SW8260
Carbon tetrachloride	ND	50	ug/L	06/15/12		H/J	SW8260
Chlorobenzene	ND	50	ug/L	06/15/12		H/J	SW8260 B
Chloroform	ND	50	ug/L	06/15/12		H/J	SW8260
Methyl ethyl ketone	ND	50	ug/L	06/15/12		H/J	SW8260
Tetrachloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
Trichloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
Vinyl chloride	ND	50	ug/L	06/15/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	06/15/12		H/J	70 - 121 %
% Bromofluorobenzene	93		%	06/15/12		H/J	59 - 113 %
% Dibromofluoromethane	110		%	06/15/12		H/J	70 - 130 %

Parameter	Result	RL	Units	Date	Time	By	Reference
% Toluene-d8	98		%	06/15/12		H/J	84 - 138 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	460	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	460	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	ug/Kg	06/03/12		KCA	SW 8270
3,3'-Dichlorobenzidine	ND	570	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	460	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
4-Chloroaniline	ND	570	ug/Kg	06/03/12		KCA	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270
4-Nitroaniline	ND	460	ug/Kg	06/03/12		KCA	SW 8270
4-Nitrophenol	ND	830	ug/Kg	06/03/12		KCA	SW 8270
Acenaphthene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Acenaphthylene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Acetophenone	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Aniline	ND	830	ug/Kg	06/03/12		KCA	SW 8270
Anthracene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Azobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Benz(a)anthracene	170 J	290	ug/Kg	06/03/12		KCA	SW 8270
Benzidine	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Benzo(a)pyrene	150 J	290	ug/Kg	06/03/12		KCA	SW 8270
Benzo(b)fluoranthene	180 J	290	ug/Kg	06/03/12		KCA	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Benzoic acid	ND	830	ug/Kg	06/03/12		KCA	SW 8270
Benzyl butyl phthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-chloroethyl)ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Carbazole	ND	830	ug/Kg	06/03/12		KCA	SW 8270
Chrysene	190 J	290	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Dibenz(a,h)anthracene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Dibenzofuran	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Diethyl phthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Dimethylphthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Fluoranthene	340	290	ug/Kg	06/03/12		KCA	SW 8270
Fluorene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Hexachlorobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Hexachloroethane	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Isophorone	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Naphthalene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Nitrobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
N-Nitrosodimethylamine	ND	290	ug/Kg	06/03/12		KCA	SW 8270
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	06/03/12		KCA	SW 8270
N-Nitrosodiphenylamine	ND	830	ug/Kg	06/03/12		KCA	SW 8270
Pentachloronitrobenzene	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Pentachlorophenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Phenanthrene	280 J	290	ug/Kg	06/03/12		KCA	SW 8270
Phenol	ND	290	ug/Kg	06/03/12		KCA	SW 8270
Pyrene	330	290	ug/Kg	06/03/12		KCA	SW 8270
Pyridine	ND	290	ug/Kg	06/03/12		KCA	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	94		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	69		%	06/03/12		KCA	30 - 115 %
% 2-Fluorophenol	73		%	06/03/12		KCA	25 - 121 %
% Nitrobenzene-d5	84		%	06/03/12		KCA	23 - 120 %
% Phenol-d5	86		%	06/03/12		KCA	24 - 113 %
% Terphenyl-d14	75		%	06/03/12		KCA	18 - 137 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	06/15/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	83	ug/L	06/15/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	83	ug/L	06/15/12		DD	SW 8270
2,4-Dinitrotoluene	ND	83	ug/L	06/15/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	83	ug/L	06/15/12		DD	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	06/15/12		DD	SW 8270
Hexachlorobenzene	ND	83	ug/L	06/15/12		DD	SW 8270
Hexachlorobutadiene	ND	83	ug/L	06/15/12		DD	SW 8270
Hexachloroethane	ND	83	ug/L	06/15/12		DD	SW 8270
Nitrobenzene	ND	83	ug/L	06/15/12		DD	SW 8270
Pentachlorophenol	ND	83	ug/L	06/15/12		DD	SW 8270
Pyridine	ND	83	ug/L	06/15/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	90		%	06/15/12		DD	19 - 122 %
% 2-Fluorobiphenyl	69		%	06/15/12		DD	30 - 115 %
% 2-Fluorophenol	67		%	06/15/12		DD	25 - 121 %
% Nitrobenzene-d5	78		%	06/15/12		DD	23 - 120 %

Parameter	Result	RL	Units	Date	Time	By	Reference
% Phenol-d5	51		%	06/15/12		DD	24 - 113 %
% Terphenyl-d14	88		%	06/15/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.

Corrosivity is based solely on the pH analysis performed above.

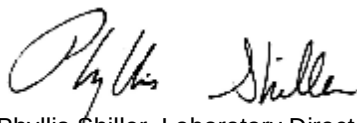
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
05/31/12	0:00
06/01/12	16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92736

Project ID: 145 WEST ST.

Client ID: WS-K2

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	06/06/12		LK	SW6010
Aluminum	9330 N	42	mg/Kg	06/06/12		LK	SW6010
Arsenic	3.06	0.84	mg/Kg	06/06/12		LK	SW6010
Barium	80.5	0.84	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.40	0.33	mg/Kg	06/06/12		LK	SW6010
Calcium	1320 N	4.2	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	06/06/12		LK	SW6010
Cobalt	5.63	0.42	mg/Kg	06/06/12		LK	SW6010
Chromium	13.0	0.42	mg/Kg	06/06/12		LK	SW6010
Copper	15.1	0.42	mg/kg	06/06/12		LK	SW6010 B
Iron	15000 N	42	mg/Kg	06/06/12		LK	SW6010
Mercury	< 0.09	0.09	mg/Kg	06/04/12		RS	SW-7471
Potassium	869 N	84	mg/Kg	06/06/12		LK	SW6010
Magnesium	3200 N	4.2	mg/Kg	06/06/12		LK	SW6010
Manganese	116	0.42	mg/Kg	06/06/12		LK	SW6010
Sodium	83	8	mg/Kg	06/06/12		LK	SW6010 B
Nickel	15.7	0.42	mg/Kg	06/06/12		LK	SW6010
Lead	< 0.84 *	0.84	mg/Kg	06/06/12		LK	SW6010
Antimony	< 2.1	2.1	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/06/12		LK	SW6010
Thallium	< 1.7	1.7	mg/Kg	06/06/12		LK	SW6010
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050
Vanadium	16.0	0.42	mg/Kg	06/06/12		LK	SW6010
Zinc	44.0	0.84	mg/Kg	06/06/12		LK	SW6010 B
Percent Solid	82		%	06/01/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/01/12		BB/F	SW3545
Mercury Digestion	Completed			06/04/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
Acetone	6.1 JS	61	ug/Kg	06/05/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/05/12		R/J	SW8260
Benzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromoform	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromomethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chloroform	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Dibromochloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	37	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	2.0 JS	6.1	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Toluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	100		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	98		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/05/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	450	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270
3,3'-Dichlorobenzidine	ND	560	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	560	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	820	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	820	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	140 J	280	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	390	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	320	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	380	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	210 J	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	150 J	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	820	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	ND	820	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	420	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	840	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	170 J	280	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	820	ug/Kg	06/03/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Pentachlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenanthrene	1100	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyrene	870	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyridine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/03/12		KCA	30 - 115 %
% 2-Fluorophenol	78		%	06/03/12		KCA	25 - 121 %
% Nitrobenzene-d5	91		%	06/03/12		KCA	23 - 120 %
% Phenol-d5	94		%	06/03/12		KCA	24 - 113 %
% Terphenyl-d14	83		%	06/03/12		KCA	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

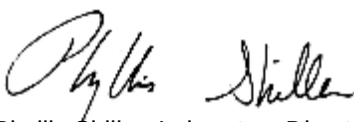
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director
June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
05/31/12	0:00
06/01/12	16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92737

Project ID: 145 WEST ST.

Client ID: WS-K1

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	06/06/12		LK	SW6010
Aluminum	9070 N	39	mg/Kg	06/06/12		LK	SW6010
Arsenic	3.32	0.78	mg/Kg	06/06/12		LK	SW6010
Barium	46.5	0.78	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.44	0.31	mg/Kg	06/06/12		LK	SW6010
Calcium	4640 N	3.9	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	06/06/12		LK	SW6010
Cobalt	7.58	0.39	mg/Kg	06/06/12		LK	SW6010
Chromium	14.8	0.39	mg/Kg	06/06/12		LK	SW6010
Copper	14.6	0.39	mg/kg	06/06/12		LK	SW6010 B
Iron	29700 N	39	mg/Kg	06/06/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/04/12		RS	SW-7471
Potassium	1010 N	78	mg/Kg	06/06/12		LK	SW6010
Magnesium	3050 N	3.9	mg/Kg	06/06/12		LK	SW6010
Manganese	197	3.9	mg/Kg	06/06/12		LK	SW6010
Sodium	171	8	mg/Kg	06/06/12		LK	SW6010 B
Nickel	14.7	0.39	mg/Kg	06/06/12		LK	SW6010
Lead	< 0.78 *	0.78	mg/Kg	06/06/12		LK	SW6010
Antimony	< 2.0	2.0	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/06/12		LK	SW6010
Thallium	< 1.6	1.6	mg/Kg	06/06/12		LK	SW6010
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050
Vanadium	17.2	0.39	mg/Kg	06/06/12		LK	SW6010
Zinc	41.1	0.78	mg/Kg	06/06/12		LK	SW6010 B
Percent Solid	82		%	06/01/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/01/12		BB/F	SW3545
Mercury Digestion	Completed			06/04/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
Acetone	ND	61	ug/Kg	06/05/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/05/12		R/J	SW8260
Benzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromoform	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Bromomethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chloroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chloroform	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Chloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Dibromochloromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	37	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	2.3 JS	6.1	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Toluene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	97		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	101		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	101		%	06/05/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	450	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270
3,3'-Dichlorobenzidine	ND	560	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	560	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	810	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	810	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	810	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	ND	810	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	810	ug/Kg	06/03/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Pentachlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenanthrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyridine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	89		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	73		%	06/03/12		KCA	30 - 115 %
% 2-Fluorophenol	72		%	06/03/12		KCA	25 - 121 %
% Nitrobenzene-d5	81		%	06/03/12		KCA	23 - 120 %
% Phenol-d5	84		%	06/03/12		KCA	24 - 113 %
% Terphenyl-d14	78		%	06/03/12		KCA	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

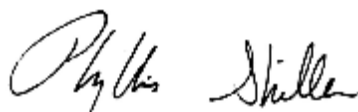
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
05/31/12	0:00
06/01/12	16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92739

Project ID: 145 WEST ST.

Client ID: WSK5 20

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	06/06/12		LK	SW6010
Aluminum	8080 N	38	mg/Kg	06/06/12		LK	SW6010
Arsenic	2.91	0.76	mg/Kg	06/06/12		LK	SW6010
Barium	45.5	0.76	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.71	0.31	mg/Kg	06/06/12		LK	SW6010
Calcium	1010 N	3.8	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	06/06/12		LK	SW6010
Cobalt	8.57	0.38	mg/Kg	06/06/12		LK	SW6010
Chromium	27.5	0.38	mg/Kg	06/06/12		LK	SW6010
Copper	21.6	0.38	mg/kg	06/06/12		LK	SW6010 B
Iron	42400 N	38	mg/Kg	06/06/12		LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	06/04/12		RS	SW-7471
Potassium	1610 N	76	mg/Kg	06/06/12		LK	SW6010
Magnesium	2200 N	3.8	mg/Kg	06/06/12		LK	SW6010
Manganese	223	3.8	mg/Kg	06/06/12		LK	SW6010
Sodium	169	8	mg/Kg	06/06/12		LK	SW6010 B
Nickel	16.2	0.38	mg/Kg	06/06/12		LK	SW6010
Lead	0.418 B*	0.76	mg/Kg	06/06/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050
Vanadium	40.9	0.38	mg/Kg	06/06/12		LK	SW6010
Zinc	52.4	0.76	mg/Kg	06/06/12		LK	SW6010 B
Percent Solid	85		%	06/01/12		JL	E160.3
Soil Extraction for PCB	Completed			06/01/12		BB	SW3545
Soil Extraction for Pesticide	Completed			06/01/12		BB/F	SW3545
Soil Extraction for SVOA	Completed			06/01/12		BB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/04/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/01/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	49	ug/Kg	06/04/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	49	ug/Kg	06/04/12		JRB	SW8151
2,4-D	ND	49	ug/Kg	06/04/12		JRB	SW8151
2,4-DB	ND	490	ug/Kg	06/04/12		JRB	SW8151
Dalapon	ND	49	ug/Kg	06/04/12		JRB	SW8151
Dicamba	ND	97	ug/Kg	06/04/12		JRB	SW8151
Dichloroprop	ND	49	ug/Kg	06/04/12		JRB	SW8151
Dinoseb	ND	97	ug/Kg	06/04/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	74		%	06/04/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1221	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1232	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1242	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1248	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1254	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1260	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1262	ND	98	ug/Kg	06/02/12		MH	SW 8082
PCB-1268	ND	98	ug/Kg	06/02/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	81		%	06/02/12		MH	30 - 150 %
% TCMX	81		%	06/02/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	3.3	ug/Kg	06/05/12		KCA	SW8081
4,4' -DDE	ND	3.3	ug/Kg	06/05/12		KCA	SW8081
4,4' -DDT	ND	3.3	ug/Kg	06/05/12		KCA	SW8081
a-BHC	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
a-Chlordane	ND	9.8	ug/Kg	06/05/12		KCA	SW8081
Aldrin	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
b-BHC	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
Chlordane	ND	59	ug/Kg	06/05/12		KCA	SW8081
d-BHC	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
Dieldrin	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
Endosulfan I	ND	9.8	ug/Kg	06/05/12		KCA	SW8081
Endosulfan II	ND	9.8	ug/Kg	06/05/12		KCA	SW8081
Endosulfan sulfate	ND	9.8	ug/Kg	06/05/12		KCA	SW8081
Endrin	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
Endrin aldehyde	ND	9.8	ug/Kg	06/05/12		KCA	SW8081
Endrin ketone	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
g-BHC	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
g-Chlordane	ND	9.8	ug/Kg	06/05/12		KCA	SW8081
Heptachlor	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
Heptachlor epoxide	ND	4.9	ug/Kg	06/05/12		KCA	SW8081
Methoxychlor	ND	20	ug/Kg	06/05/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	94	ug/Kg	06/05/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	82		%	06/05/12		KCA	SW8081
% TCMX	85		%	06/05/12		KCA	SW8081
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/05/12		R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/05/12		R/J	SW8260
Acetone	ND	59	ug/Kg	06/05/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/05/12		R/J	SW8260
Benzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Dibromochloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Ethylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	1.9 JS	5.9	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Toluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	99		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	98		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/05/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
3,3'-Dichlorobenzidine	ND	550	ug/Kg	06/03/12		KCA	SW 8270	
3-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270	
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	550	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	440	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	790	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	790	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	790	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	ND	790	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	790	ug/Kg	06/03/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	270	ug/Kg	06/03/12		KCA	SW 8270	1
Pentachlorophenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
Phenanthrene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Phenol	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Pyrene	ND	270	ug/Kg	06/03/12		KCA	SW 8270
Pyridine	ND	270	ug/Kg	06/03/12		KCA	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	76		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	76		%	06/03/12		KCA	30 - 115 %
% 2-Fluorophenol	75		%	06/03/12		KCA	25 - 121 %
% Nitrobenzene-d5	88		%	06/03/12		KCA	23 - 120 %
% Phenol-d5	90		%	06/03/12		KCA	24 - 113 %
% Terphenyl-d14	76		%	06/03/12		KCA	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

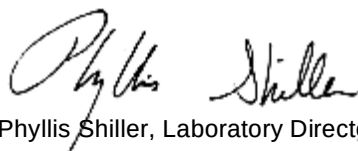
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
05/31/12 0:00
06/01/12 16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92740

Project ID: 145 WEST ST.

Client ID: WSK3 20

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	06/06/12		LK	SW6010
Aluminum	3860 N	38	mg/Kg	06/06/12		LK	SW6010
Arsenic	1.58	0.75	mg/Kg	06/06/12		LK	SW6010
Barium	18.5	0.75	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.256 B	0.30	mg/Kg	06/06/12		LK	SW6010
Calcium	700 N	3.8	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	06/06/12		LK	SW6010
Cobalt	7.79	0.38	mg/Kg	06/06/12		LK	SW6010
Chromium	10.9	0.38	mg/Kg	06/06/12		LK	SW6010
Copper	5.42	0.38	mg/kg	06/06/12		LK	SW6010 B
Iron	7400 N	3.8	mg/Kg	06/06/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/04/12		RS	SW-7471
Potassium	723 N	8	mg/Kg	06/06/12		LK	SW6010
Magnesium	1670 N	3.8	mg/Kg	06/06/12		LK	SW6010
Manganese	92.3	0.38	mg/Kg	06/06/12		LK	SW6010
Sodium	208	8	mg/Kg	06/06/12		LK	SW6010 B
Nickel	9.12	0.38	mg/Kg	06/06/12		LK	SW6010
Lead	3.09 *	0.75	mg/Kg	06/06/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050
Vanadium	11.6	0.38	mg/Kg	06/06/12		LK	SW6010
Zinc	23.5	0.75	mg/Kg	06/06/12		LK	SW6010 B
Percent Solid	85		%	06/01/12		JL	E160.3
Soil Extraction for PCB	Completed			06/01/12		BB	SW3545
Soil Extraction for Pesticide	Completed			06/01/12		BB/F	SW3545
Soil Extraction for SVOA	Completed			06/04/12		RB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/04/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/01/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	49	ug/Kg	06/04/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	49	ug/Kg	06/04/12		JRB	SW8151
2,4-D	ND	49	ug/Kg	06/04/12		JRB	SW8151
2,4-DB	ND	490	ug/Kg	06/04/12		JRB	SW8151
Dalapon	ND	49	ug/Kg	06/04/12		JRB	SW8151
Dicamba	ND	98	ug/Kg	06/04/12		JRB	SW8151
Dichloroprop	ND	49	ug/Kg	06/04/12		JRB	SW8151
Dinoseb	ND	98	ug/Kg	06/04/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	71		%	06/04/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1221	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1232	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1242	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1248	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1254	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1260	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1262	ND	96	ug/Kg	06/05/12		MH	SW 8082
PCB-1268	ND	96	ug/Kg	06/05/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	71		%	06/05/12		MH	30 - 150 %
% TCMX	77		%	06/05/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	3.3	ug/Kg	06/05/12		KCA	SW8081
4,4' -DDE	ND	3.3	ug/Kg	06/05/12		KCA	SW8081
4,4' -DDT	ND	3.3	ug/Kg	06/05/12		KCA	SW8081
a-BHC	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
a-Chlordane	ND	9.6	ug/Kg	06/05/12		KCA	SW8081
Aldrin	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
b-BHC	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
Chlordane	ND	58	ug/Kg	06/05/12		KCA	SW8081
d-BHC	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
Dieldrin	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
Endosulfan I	ND	9.6	ug/Kg	06/05/12		KCA	SW8081
Endosulfan II	ND	9.6	ug/Kg	06/05/12		KCA	SW8081
Endosulfan sulfate	ND	9.6	ug/Kg	06/05/12		KCA	SW8081
Endrin	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
Endrin aldehyde	ND	9.6	ug/Kg	06/05/12		KCA	SW8081
Endrin ketone	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
g-BHC	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
g-Chlordane	ND	9.6	ug/Kg	06/05/12		KCA	SW8081
Heptachlor	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
Heptachlor epoxide	ND	4.8	ug/Kg	06/05/12		KCA	SW8081
Methoxychlor	ND	19	ug/Kg	06/05/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	92	ug/Kg	06/05/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	72		%	06/05/12		KCA	SW8081
% TCMX	78		%	06/05/12		KCA	SW8081
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/05/12		R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/05/12		R/J	SW8260
Acetone	ND	59	ug/Kg	06/05/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/05/12		R/J	SW8260
Benzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Carbon Disulfide	1.2 J	5.9	ug/Kg	06/05/12		R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Dibromochloromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Ethylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	2.2 JS	5.9	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Toluene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	96		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	98		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	100		%	06/05/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/05/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/05/12		DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/05/12		DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/05/12		DD	SW 8270
2,4-Dinitrophenol	ND	430	ug/Kg	06/05/12		DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/05/12		DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/05/12		DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/05/12		DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/05/12		DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/05/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/05/12		DD	SW 8270
2-Nitroaniline	ND	430	ug/Kg	06/05/12		DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/05/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	06/05/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
3,3'-Dichlorobenzidine	ND	530	ug/Kg	06/05/12		DD	SW 8270	
3-Nitroaniline	ND	430	ug/Kg	06/05/12		DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/05/12		DD	SW 8270	
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/05/12		DD	SW 8270	
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/05/12		DD	SW 8270	
4-Chloroaniline	ND	530	ug/Kg	06/05/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/05/12		DD	SW 8270	
4-Nitroaniline	ND	430	ug/Kg	06/05/12		DD	SW 8270	
4-Nitrophenol	ND	770	ug/Kg	06/05/12		DD	SW 8270	
Acenaphthene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Acenaphthylene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Acetophenone	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Aniline	ND	770	ug/Kg	06/05/12		DD	SW 8270	LO
Anthracene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Azobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270	1
Benz(a)anthracene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Benzidine	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Benzo(a)pyrene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Benzo(b)fluoranthene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Benzo(ghi)perylene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Benzoic acid	ND	770	ug/Kg	06/05/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Carbazole	ND	770	ug/Kg	06/05/12		DD	SW 8270	
Chrysene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Dibenzofuran	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Fluoranthene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Fluorene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Isophorone	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Naphthalene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	270	ug/Kg	06/05/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/05/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	770	ug/Kg	06/05/12		DD	SW 8270	
Pentachloronitrobenzene	ND	270	ug/Kg	06/05/12		DD	SW 8270	1
Pentachlorophenol	ND	270	ug/Kg	06/05/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
Phenanthrene	ND	270	ug/Kg	06/05/12		DD	SW 8270
Phenol	ND	270	ug/Kg	06/05/12		DD	SW 8270
Pyrene	ND	270	ug/Kg	06/05/12		DD	SW 8270
Pyridine	ND	270	ug/Kg	06/05/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	66		%	06/05/12		DD	19 - 122 %
% 2-Fluorobiphenyl	60		%	06/05/12		DD	30 - 115 %
% 2-Fluorophenol	63		%	06/05/12		DD	25 - 121 %
% Nitrobenzene-d5	68		%	06/05/12		DD	23 - 120 %
% Phenol-d5	70		%	06/05/12		DD	24 - 113 %
% Terphenyl-d14	67		%	06/05/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

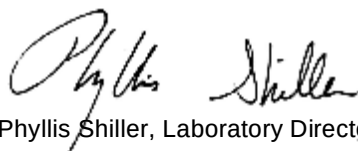
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

<u>Date</u>	<u>Time</u>
05/31/12	0:00
06/01/12	16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92741

Project ID: 145 WEST ST.

Client ID: WSJ1

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	06/06/12		LK	SW6010
Aluminum	7830 N	39	mg/Kg	06/06/12		LK	SW6010
Arsenic	1.86	0.77	mg/Kg	06/06/12		LK	SW6010
Barium	39.7	0.77	mg/Kg	06/06/12		LK	SW6010
Beryllium	0.37	0.31	mg/Kg	06/06/12		LK	SW6010
Calcium	705 N	3.9	mg/Kg	06/06/12		LK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	06/06/12		LK	SW6010
Cobalt	5.36	0.39	mg/Kg	06/06/12		LK	SW6010
Chromium	15.5	0.39	mg/Kg	06/06/12		LK	SW6010
Copper	14.2	0.39	mg/kg	06/06/12		LK	SW6010 B
Iron	19300 N	39	mg/Kg	06/06/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/04/12		RS	SW-7471
Potassium	938 N	77	mg/Kg	06/06/12		LK	SW6010
Magnesium	2370 N	3.9	mg/Kg	06/06/12		LK	SW6010
Manganese	221	3.9	mg/Kg	06/06/12		LK	SW6010
Sodium	98	8	mg/Kg	06/06/12		LK	SW6010 B
Nickel	11.1	0.39	mg/Kg	06/06/12		LK	SW6010
Lead	< 0.77 *	0.77	mg/Kg	06/06/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/06/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/06/12		LK	SW6010
Total Metals Digest	Completed			06/01/12		AG	SW846 - 3050
Vanadium	23.0	0.39	mg/Kg	06/06/12		LK	SW6010
Zinc	31.0	0.77	mg/Kg	06/06/12		LK	SW6010 B
Percent Solid	83		%	06/01/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/01/12		BB/F	SW3545
Mercury Digestion	Completed			06/04/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/05/12		R/J	SW8260
Acetone	34 JS	60	ug/Kg	06/05/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/05/12		R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Carbon Disulfide	1.2 J	6.0	ug/Kg	06/05/12		R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Dibromochloromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	36	ug/Kg	06/05/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Methylene chloride	2.5 JS	6.0	ug/Kg	06/05/12		R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/05/12		R/J	SW8260
Toluene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/05/12		R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/05/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/05/12		R/J	70 - 121 %
% Bromofluorobenzene	94		%	06/05/12		R/J	59 - 113 %
% Dibromofluoromethane	97		%	06/05/12		R/J	70 - 130 %
% Toluene-d8	101		%	06/05/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrophenol	ND	450	ug/Kg	06/03/12		KCA	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270
2-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/03/12		KCA	SW 8270
3,3'-Dichlorobenzidine	ND	560	ug/Kg	06/03/12		KCA	SW 8270
3-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Chloroaniline	ND	560	ug/Kg	06/03/12		KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitroaniline	ND	450	ug/Kg	06/03/12		KCA	SW 8270	
4-Nitrophenol	ND	810	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Acetophenone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Aniline	ND	810	ug/Kg	06/03/12		KCA	SW 8270	LO
Anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Azobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Benz(a)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzidine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(a)pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(b)fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(ghi)perylene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzo(k)fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Benzoic acid	ND	810	ug/Kg	06/03/12		KCA	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Carbazole	ND	810	ug/Kg	06/03/12		KCA	SW 8270	
Chrysene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluoranthene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Fluorene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Hexachloroethane	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Isophorone	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Naphthalene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Nitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
N-Nitrosodiphenylamine	ND	810	ug/Kg	06/03/12		KCA	SW 8270	
Pentachloronitrobenzene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	1
Pentachlorophenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenanthrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Phenol	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyrene	ND	280	ug/Kg	06/03/12		KCA	SW 8270	
Pyridine	ND	280	ug/Kg	06/03/12		KCA	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	95		%	06/03/12		KCA	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/03/12		KCA	30 - 115 %
% 2-Fluorophenol	72		%	06/03/12		KCA	25 - 121 %
% Nitrobenzene-d5	81		%	06/03/12		KCA	23 - 120 %
% Phenol-d5	88		%	06/03/12		KCA	24 - 113 %
% Terphenyl-d14	77		%	06/03/12		KCA	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

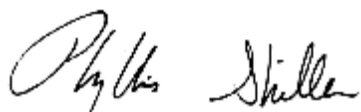
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
05/31/12 0:00
06/01/12 16:23

Laboratory Data

SDG ID: GBB92733
Phoenix ID: BB92974

Project ID: 145 WEST STREET
Client ID: TRIP BLANK HIGH

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	06/04/12		LB	E160.3
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	06/06/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	06/06/12		R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	06/06/12		R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	06/06/12		R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	06/06/12		R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	06/06/12		R/J	SW8260 1
4-Chlorotoluene	ND	250	ug/Kg	06/06/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	06/06/12		R/J	SW8260
Acetone	ND	2500	ug/Kg	06/06/12		R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	06/06/12		R/J	SW8260
Benzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Bromobenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Bromoform	ND	250	ug/Kg	06/06/12		R/J	SW8260
Bromomethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	06/06/12		R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	06/06/12		R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Chloroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Chloroform	ND	250	ug/Kg	06/06/12		R/J	SW8260
Chloromethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	06/06/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Dibromomethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Methyl Ethyl Ketone	ND	1500	ug/Kg	06/06/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	500	ug/Kg	06/06/12		R/J	SW8260
Methylene chloride	180 JS	250	ug/Kg	06/06/12		R/J	SW8260
Naphthalene	ND	250	ug/Kg	06/06/12		R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
o-Xylene	ND	250	ug/Kg	06/06/12		R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	06/06/12		R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Styrene	ND	250	ug/Kg	06/06/12		R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	06/06/12		R/J	SW8260
Toluene	ND	250	ug/Kg	06/06/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	06/06/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	06/06/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	06/06/12		R/J	SW8260
Trichloroethene	ND	250	ug/Kg	06/06/12		R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	06/06/12		R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	06/06/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	06/06/12		R/J	70 - 121 %
% Bromofluorobenzene	97		%	06/06/12		R/J	59 - 113 %
% Dibromofluoromethane	96		%	06/06/12		R/J	70 - 130 %
% Toluene-d8	100		%	06/06/12		R/J	84 - 138 %

1P

1

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

Comments:

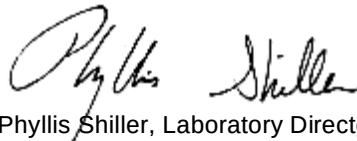
TRIP BLANK INCLUDED 100% SOLID ASSUMED

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



NY ANALYTICAL SERVICES PROTOCOL

June 25, 2012

SDG I.D.: GBB92733

145 WEST STREET

Conformance / Non-Conformance Summary

Chlorinated Herbicides:

General Comments:

The samples were analyzed using a dual column ECD GC. Data files are labeled date-seq-A for the A channel and date-seq-B for the B channel. Results for this SDG are reported from the A channel.

The reporting levels (PQL) are based on the lowest calibration standard. The laboratory does not estimate concentrations that fall between the MDL study value and the PQL. As a result, there is only one concentration column on the form. A number followed by a "U" indicates that the herbicide was not detected at that level. A number without a "U" indicates that the herbicide was detected at that level.

Form 2: Surrogate recoveries met criteria with the following exceptions: none

Form 3: Matrix Spike/Matrix Spike Duplicate/Lab Control Sample (LCS/LCSD) met criteria with the following exceptions: LCS/LCSD RPD exceeded acceptance criteria for 2,4,5-T and 2,4-D.

Form 6D : Initial Calibration Retention Times: met criteria.

Form 6E: Initial Calibration (Factors and RSDs): The relative standard deviation for 2,4-D exceeded acceptance criteria on the B side.

Form 7: Continuing Calibration Standards/Blanks: Some continuing calibration standards had recoveries above the acceptance criteria for Dichloroprop and Dinoseb. A positive bias is not suspected because the sample concentrations were not detected for herbicides.

Form 8: Retention Time sequence: Met Criteria

Other observations:

Rashmi Makol
Project Manager

Date



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



NY ANALYTICAL SERVICES PROTOCOL

June 25, 2012

SDG I.D.: GBB92733

145 WEST STREET

Conformance / Non-Conformance Summary

Polychlorinated Biphenyls (PCBs):

General Comments:

The samples were analyzed using a dual column ECD GC. Data files are labeled date-seq-A for the "A" channel and date-seq-B for the "B" channel. Results for this SDG are reported from the "A" channel for samples, except the sample BB92739(WSK5 20), which is reported from B side. An acid cleanup was performed on all extracts.

The reporting levels (PQL) are based on the lowest calibration standard. In this case, a 50ppb standard was also used to detect PCBs at lower level. It is part of Phoenix Lab's procedure to dilute all soil extracts by a factor of ten prior to analysis.

Calibration:

As per the method, a five-point calibration of aroclors 1016 and 1260 is used to verify the linearity of all the aroclors. Aroclor 1254 was also analyzed as part of this run for verification. If any other aroclors had been detected, the samples would have been reanalyzed with that aroclor.

Form 2: Surrogate recoveries met criteria.

Form3: Matrix Spike/Matrix Spike Duplicate/Lab Control Sample (LCS/LCSD) met criteria

Form 6D : Initial Calibration Retention Times met criteria.

Form 6E: Initial Calibration (Factors and RSDs) met criteria

Form 7D: Calibration Verification: Some of the individual peaks for Aroclor 1016 and 1260 were outside of the acceptance criteria for some continuing calibration standards. A positive bias is not suspected because the sample concentrations were not detected for PCB.

Form 8: Retention Time sequence met criteria

Other observations:

Rashmi Makol _____ Date
Project Manager



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



NY ANALYTICAL SERVICES PROTOCOL

June 25, 2012

SDG I.D.: GBB92733

145 WEST STREET

Conformance / Non-Conformance Summary

Pesticides:

General Comments:

The samples were analyzed using a dual column ECD GC. Data files are labeled date-A-seq for the A channel and date-B-seq for the B channel. Results for this SDG are reported from the B channel for samples and QC is reported from A side.

A Florisil cleanup was performed on all extracts.

The reporting levels (PQL) are based on the lowest calibration standard. In this case, a 2.5ppb standard was also used to detect Pesticides at lower level. The laboratory does not estimate pesticides that fall between the MDL study value and the PQL. As a result, there is only one concentration column on the form1. A number followed by a "U" indicates that the pesticide was not detected at that level. A number without a "U" indicates that the pesticide was detected at that level.

A calibration curve for the single component pesticides was analyzed with the samples. The multi-component pesticides: Toxaphene and Chlordane standards are analyzed only if the pattern is detected in the samples.

This data package provides summary forms for the single component pesticides only, please refer to the Phoenix report for the full list

Form 2: Surrogate recoveries met criteria with the following exceptions: none

Form 3: Matrix Spike/Matrix Spike Duplicate/Lab Control Sample (LCS/LCSD) met criteria with the following exceptions: none

Form 6D : Initial Calibration Retention Times: met criteria.

Form 6E: Initial Calibration (Factors and RSDs): met criteria.

Form 7: Continuing Calibration Standards/Blanks: The ending continuing calibration standard had Endosulfan II and methoxychlor recoveries above the acceptance criteria. A positive bias is not suspected because the sample concentrations were not detected for pesticides.

Form 8: Retention Time sequence: Met Criteria

Other observations:

Rashmi Makol
GC Project Manager

Date



Monday, June 25, 2012

**Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747**

**Project ID: 145 WEST STREET
Sample ID#s: BB93978**

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller", is written over a light blue horizontal line.

**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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93978

Project ID: 145 WEST STREET

Client ID: WS-G4 3-15 FT

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 1	1	mg/Kg	06/08/12		LK	SW6010
Aluminum	7320	51	mg/Kg	06/07/12		LK	SW6010
Arsenic	16.3	1.0	mg/Kg	06/08/12		LK	SW6010
Barium	231	1.0	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.48	0.41	mg/Kg	06/08/12		LK	SW6010
Calcium	34700	51	mg/Kg	06/07/12		LK	SW6010
Cadmium	< 0.51	0.51	mg/Kg	06/08/12		LK	SW6010
Cobalt	7.87	0.51	mg/Kg	06/08/12		LK	SW6010
Chromium	14.3	0.51	mg/Kg	06/08/12		LK	SW6010
Copper	90.5 N	5.1	mg/kg	06/07/12		EK	SW6010
Iron	19500	51	mg/Kg	06/07/12		LK	SW6010
Mercury	3.31	0.46	mg/Kg	06/08/12		RS	SW-7471
Potassium	952 N	100	mg/Kg	06/07/12		LK	SW6010
Magnesium	1930	5.1	mg/Kg	06/08/12		LK	SW6010
Manganese	166	0.51	mg/Kg	06/08/12		LK	SW6010
Sodium	723 N	10	mg/Kg	06/08/12		LK	SW6010
Nickel	16.6	0.51	mg/Kg	06/08/12		LK	SW6010
Lead	436	10	mg/Kg	06/07/12		LK	SW6010
Antimony	3.7	2.6	mg/Kg	06/08/12		LK	SW6010
Selenium	< 2.0	2.0	mg/Kg	06/08/12		LK	SW6010
TCLP Silver	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Barium	1.13	0.10	mg/L	06/15/12		LK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/15/12		LK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/14/12		RS	SW7470
TCLP Lead	3.16	0.10	mg/L	06/15/12		LK	SW6010
TCLP Selenium	< 0.10	0.10	mg/L	06/15/12		LK	SW6010

Parameter	Result	RL	Units	Date	Time	By	Reference	
Thallium	< 2.0	2.0	mg/Kg	06/08/12		EK	SW6010	
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050	
TCLP Metals Digestion	Completed			06/14/12		X/X	SW3005	
Vanadium	20.1	0.51	mg/Kg	06/08/12		LK	SW6010	
Zinc	246	10	mg/Kg	06/07/12		LK	SW6010	
Percent Solid	69		%	06/06/12		JL	E160.3	
Corrosivity	Negative	NONE	None	06/13/12		O/EG	SM 2330	1
Flash Point	>200	200	degree F	06/14/12		Y	SW1010	
Ignitability	Passed	140	deg F	06/14/12		Y	SW1010	
pH - Soil	7.35	0.10	pH Units	06/13/12	23:00	O/EG	4500-H B/9045	1
Reactivity Cyanide	< 7.2	7.2	mg/Kg	06/14/12		JL/GD	SW 846-7.3	1
Reactivity Sulfide	< 20	20	mg/Kg	06/14/12		JL/GD	SW846-7.3	1
Reactivity	Negative		Pos/Neg	06/14/12		JL/GD	SW 846-7.3	1
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545	
Mercury Digestion	Completed			06/08/12		X/D	SW7471	
Extraction of NJ QAM-025	Completed			06/13/12		JS/D	3545	
TCLP Digestion Mercury	Completed			06/14/12		X	E1311/7470	
TCLP Herbicides Extraction	Completed			06/15/12		D	SW8150 Mod	
TCLP Extraction for Metals	Completed			06/13/12		x	EPA 1311	
TCLP Extraction for Organics	Completed			06/13/12		x	1311	
TCLP Pesticides Extraction	Completed			06/14/12		L	SW3510	
TCLP Semi-Volatile Extraction	Completed			06/14/12		L	SW3510	
TCLP Extraction Volatiles	Completed			06/13/12		y	EPA 1311	

TPH by GC (QAM-025)

Total Petroleum Hydrocarbon	ND	110	mg/Kg	06/15/12		JRB	QAM-025	1
<u>QA/QC Surrogates</u>								
% Chlorobenzene (surrogate)	44		%	06/15/12		JRB	50 - 150 %	3
% Pentacosane (surrogate)	73		%	06/15/12		JRB	50 - 150 %	

TCLP Herbicides

2,4,5-TP (Silvex)	ND	4.2	ug/L	06/18/12		JRB	SW8151	
2,4-D	ND	4.2	ug/L	06/18/12		JRB	SW8151	
<u>QA/QC Surrogates</u>								
% DCAA	88		%	06/18/12		JRB	30 - 150 %	

TCLP Pesticides

4,4' -DDD	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
4,4' -DDE	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
4,4' -DDT	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
a-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Alachlor	ND	0.05	ug/L	06/18/12		KCA	SW 8081	1
Aldrin	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
b-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Chlordane	ND	0.3	ug/L	06/18/12		KCA	SW 8081	
d-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Dieldrin	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endosulfan I	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Endosulfan II	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endosulfan Sulfate	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endrin	ND	0.1	ug/L	06/18/12		KCA	SW 8081	

Parameter	Result	RL	Units	Date	Time	By	Reference
Endrin Aldehyde	ND	0.1	ug/L	06/18/12		KCA	SW 8081
g-BHC (Lindane)	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Heptachlor	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Heptachlor epoxide	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Methoxychlor	ND	0.2	ug/L	06/18/12		KCA	SW 8081
Toxaphene	ND	1.0	ug/L	06/18/12		KCA	SW 8081
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	106		%	06/18/12		KCA	30 - 150 %
%TCMX (Surrogate Rec)	76		%	06/18/12		KCA	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1,1-Trichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1,2-Trichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloropropene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trimethylbenzene	2.6 J	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromoethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,3,5-Trimethylbenzene	1.6 J	7.2	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,4-Dichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
2,2-Dichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
2-Chlorotoluene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
2-Hexanone	ND	36	ug/Kg	06/08/12		R/J	SW8260
2-Isopropyltoluene	3.2 J	7.2	ug/Kg	06/08/12		R/J	SW8260 1
4-Chlorotoluene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
4-Methyl-2-pentanone	ND	36	ug/Kg	06/08/12		R/J	SW8260
Acetone	80 S	72	ug/Kg	06/08/12		R/J	SW8260
Acrylonitrile	ND	14	ug/Kg	06/08/12		R/J	SW8260
Benzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromochloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromodichloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromoform	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromomethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Carbon Disulfide	3.4 J	7.2	ug/Kg	06/08/12		R/J	SW8260
Carbon tetrachloride	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Chlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260 B
Chloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Chloroform	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Chloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
cis-1,2-Dichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Dibromochloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Dibromomethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Dichlorodifluoromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Ethylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Hexachlorobutadiene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Isopropylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
m&p-Xylene	3.6 J	7.2	ug/Kg	06/08/12		R/J	SW8260
Methyl Ethyl Ketone	ND	43	ug/Kg	06/08/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	06/08/12		R/J	SW8260
Methylene chloride	3.1 JS	7.2	ug/Kg	06/08/12		R/J	SW8260
Naphthalene	5.7 J	7.2	ug/Kg	06/08/12		R/J	SW8260
n-Butylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
n-Propylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
o-Xylene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
p-Isopropyltoluene	1.3 J	7.2	ug/Kg	06/08/12		R/J	SW8260
sec-Butylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Styrene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
tert-Butylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Tetrachloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	06/08/12		R/J	SW8260
Toluene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	06/08/12		R/J	SW8260
Trichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Trichlorofluoromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Trichlorotrifluoroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Vinyl chloride	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	06/08/12		R/J	70 - 121 %
% Bromofluorobenzene	89		%	06/08/12		R/J	59 - 113 %
% Dibromofluoromethane	98		%	06/08/12		R/J	70 - 130 %
% Toluene-d8	97		%	06/08/12		R/J	84 - 138 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
1,2-Dichloroethane	ND	50	ug/L	06/15/12		H/J	SW8260
Benzene	ND	50	ug/L	06/15/12		H/J	SW8260
Carbon tetrachloride	ND	50	ug/L	06/15/12		H/J	SW8260
Chlorobenzene	ND	50	ug/L	06/15/12		H/J	SW8260
Chloroform	ND	50	ug/L	06/15/12		H/J	SW8260
Methyl ethyl ketone	ND	50	ug/L	06/15/12		H/J	SW8260
Tetrachloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
Trichloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
Vinyl chloride	ND	50	ug/L	06/15/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	06/15/12		H/J	70 - 121 %
% Bromofluorobenzene	92		%	06/15/12		H/J	59 - 113 %
% Dibromofluoromethane	96		%	06/15/12		H/J	70 - 130 %

Parameter	Result	RL	Units	Date	Time	By	Reference
% Toluene-d8	101		%	06/15/12		H/J	84 - 138 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	540	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	670	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Chloroaniline	ND	670	ug/Kg	06/07/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Nitroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270
4-Nitrophenol	ND	980	ug/Kg	06/07/12		DD	SW 8270
Acenaphthene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Acenaphthylene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Acetophenone	ND	330	ug/Kg	06/07/12		DD	SW 8270
Aniline	ND	980	ug/Kg	06/07/12		DD	SW 8270
Anthracene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Azobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benz(a)anthracene	320 J	330	ug/Kg	06/07/12		DD	SW 8270
Benzidine	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(a)pyrene	280 J	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(b)fluoranthene	320 J	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(ghi)perylene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(k)fluoranthene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benzoic acid	ND	980	ug/Kg	06/07/12		DD	SW 8270
Benzyl butyl phthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Carbazole	ND	980	ug/Kg	06/07/12		DD	SW 8270
Chrysene	260 J	330	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Dibenz(a,h)anthracene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Dibenzofuran	ND	330	ug/Kg	06/07/12		DD	SW 8270
Diethyl phthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Dimethylphthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Di-n-butylphthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Di-n-octylphthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Fluoranthene	530	330	ug/Kg	06/07/12		DD	SW 8270
Fluorene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachlorobutadiene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachloroethane	ND	330	ug/Kg	06/07/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Isophorone	ND	330	ug/Kg	06/07/12		DD	SW 8270
Naphthalene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Nitrobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodimethylamine	ND	330	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	330	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	980	ug/Kg	06/07/12		DD	SW 8270
Pentachloronitrobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Pentachlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
Phenanthrene	300 J	330	ug/Kg	06/07/12		DD	SW 8270
Phenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
Pyrene	490	330	ug/Kg	06/07/12		DD	SW 8270
Pyridine	ND	330	ug/Kg	06/07/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	76		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	84		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	81		%	06/07/12		DD	23 - 120 %
% Phenol-d5	83		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	95		%	06/07/12		DD	18 - 137 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	06/16/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	83	ug/L	06/16/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	83	ug/L	06/16/12		DD	SW 8270
2,4-Dinitrotoluene	ND	83	ug/L	06/16/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	83	ug/L	06/16/12		DD	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	06/16/12		DD	SW 8270
Hexachlorobenzene	ND	83	ug/L	06/16/12		DD	SW 8270
Hexachlorobutadiene	ND	83	ug/L	06/16/12		DD	SW 8270
Hexachloroethane	ND	83	ug/L	06/16/12		DD	SW 8270
Nitrobenzene	ND	83	ug/L	06/16/12		DD	SW 8270
Pentachlorophenol	ND	83	ug/L	06/16/12		DD	SW 8270
Pyridine	ND	83	ug/L	06/16/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	79		%	06/16/12		DD	19 - 122 %
% 2-Fluorobiphenyl	61		%	06/16/12		DD	30 - 115 %
% 2-Fluorophenol	59		%	06/16/12		DD	25 - 121 %
% Nitrobenzene-d5	67		%	06/16/12		DD	23 - 120 %

Parameter	Result	RL	Units	Date	Time	By	Reference
% Phenol-d5	46		%	06/16/12		DD	24 - 113 %
% Terphenyl-d14	78		%	06/16/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

3 = This parameter exceeds laboratory specified limits.

B = Present in blank, no bias suspected.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.

Corrosivity is based solely on the pH analysis performed above.

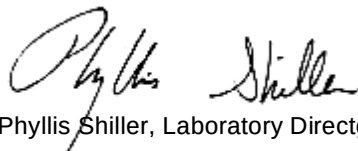
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Sample Criteria Exceedences Report

Requested Criteria: 375, 375RS

GBB93970

SampNo	LocCode	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BB93970	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	116	0.77	63	63	mg/Kg
BB93971	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	94.2	0.76	63	63	mg/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2700	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2500	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2600	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	910	270	800	800	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2200	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2200	270	1000	1000	ug/Kg
BB93972	GALLI-ENG	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	85.7	4.2	50	50	mg/kg
BB93972	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.31	0.08	0.18	0.18	mg/Kg
BB93972	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	551	8.4	400	400	mg/Kg
BB93972	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	551	8.4	63	63	mg/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	350	330	330	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	350	330	330	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2300	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1800	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2400	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2000	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	350	1000	1000	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	700	350	500	500	ug/Kg
BB93974	GALLI-ENG	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	700	350	500	500	ug/Kg
BB93974	GALLI-ENG	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	44.2	1.0	16	16	mg/Kg
BB93974	GALLI-ENG	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	44.2	1.0	13	13	mg/Kg
BB93974	GALLI-ENG	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	203	5.1	50	50	mg/kg
BB93974	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.47	0.10	0.18	0.18	mg/Kg
BB93974	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	450	10	400	400	mg/Kg
BB93974	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	450	10	63	63	mg/Kg
BB93974	GALLI-ENG	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	196	1.0	109	109	mg/Kg
BB93975	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	72.1	0.82	63	63	mg/Kg
BB93975	GALLI-ENG	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	169	8.2	109	109	mg/Kg

Sample Criteria Exceedences Report

Requested Criteria: 375, 375RS

GBB93970

SampNo	LocCode	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BB93976	GALLI-ENG	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg
BB93976	GALLI-ENG	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BB93976	GALLI-ENG	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	2500	50	50	ug/Kg
BB93976	GALLI-ENG	\$8260-SMDPR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	59	250	50	50	ug/Kg
BB93976	GALLI-ENG	\$8260-SMDPR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg
BB93976	GALLI-ENG	\$8260-SMDPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	120	120	ug/Kg
BB93976	GALLI-ENG	\$8260-SMDPR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg
BB93976	GALLI-ENG	\$8260-SMDPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	340	210	210	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	340	20	20	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	1,1-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	340	330	330	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3400	50	50	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	120	340	50	50	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	340	190	190	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	340	270	270	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	340	250	250	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	2000	120	120	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	340	60	60	ug/Kg
BB93977	GALLI-ENG	\$8260-SMDPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	340	20	20	ug/Kg
BB93977	GALLI-ENG	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	140	4.7	50	50	mg/kg
BB93977	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	2.56	0.09	0.81	0.81	mg/Kg
BB93977	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	2.56	0.09	0.18	0.18	mg/Kg
BB93977	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	245	9.4	63	63	mg/Kg
BB93977	GALLI-ENG	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	185	9.4	109	109	mg/Kg
BB93978	GALLI-ENG	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	80	72	50	50	ug/Kg
BB93978	GALLI-ENG	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	16.3	1.0	16	16	mg/Kg
BB93978	GALLI-ENG	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	16.3	1.0	13	13	mg/Kg
BB93978	GALLI-ENG	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	90.5	5.1	50	50	mg/kg
BB93978	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	3.31	0.46	0.81	0.81	mg/Kg
BB93978	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	3.31	0.46	0.18	0.18	mg/Kg
BB93978	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	436	10	400	400	mg/Kg
BB93978	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	436	10	63	63	mg/Kg
BB93978	GALLI-ENG	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	246	10	109	109	mg/Kg

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

4th v/c + 17p

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

Data Delivery:
☐ Fax #:
☐ Email:

Temp Pg of

Customer: Grain Processing
 Address: 734 Wallingford Ave
Pineville, NY 11747

Project: 145 West Street
 Report to: Ken Brooks
 Invoice to: Ken Brooks

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

Client Sample Information - Identification
 Sampler's Signature: [Signature] Date: 6/1/12

Matrix Code: DW=drinking water GW=groundwater	WW=wastewater SL=sludge	S=solid A=air	O=oil X=other	Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
93970	WS	1	0-15	3	6/1				Soil VOA (Mehner) (15 Beakate) (1) R20
93971	WS	1	0-15	3	6/1				GL Soil container (1) R20
93972	WS	1	0-15	3	6/1				GL Soil container (1) R20
93973	WS	1	0-15	3	6/1				GL Soil container (1) R20
93974	WS	1	0-15	3	6/1				GL Soil container (1) R20
93975	WS	1	0-15	3	6/1				GL Soil container (1) R20
93976	TRIP	BLANK	5	6/1					GL Soil container (1) R20
93977	WS	1	0-15	3	6/1				GL Soil container (1) R20
93978	WS	1	0-15	3	6/1				GL Soil container (1) R20

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 6/5/12 11:25
 Time: 6-5R-1705

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

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: _____

Comments, Special Requirements or Regulations:

No analysis requested. Placed on hold & emailed Client 6-6-12
[Signature]



Monday, June 25, 2012

**Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747**

**Project ID: 145 WEST ST.
Sample ID#s: BB97039 - BB97051**

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller", is written over a light blue horizontal line.

**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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	8:45
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97039

Project ID: 145 WEST ST.

Client ID: WS H2

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	06/14/12		LK	SW6010
Aluminum	4620	35	mg/Kg	06/14/12		LK	SW6010
Arsenic	2.31	0.71	mg/Kg	06/14/12		LK	SW6010
Barium	28.9	0.71	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.181 B	0.28	mg/Kg	06/14/12		LK	SW6010
Calcium	825 *	3.5	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	06/14/12		LK	SW6010
Cobalt	4.46	0.35	mg/Kg	06/14/12		LK	SW6010
Chromium	11.0	0.35	mg/Kg	06/15/12		LK	SW6010
Copper	14.6	0.35	mg/kg	06/14/12		LK	SW6010
Iron	8560	3.5	mg/Kg	06/14/12		LK	SW6010
Mercury	0.09	0.09	mg/Kg	06/13/12		RS	SW-7471
Potassium	806 N	7	mg/Kg	06/14/12		LK	SW6010
Magnesium	1690	3.5	mg/Kg	06/14/12		LK	SW6010
Manganese	93.6 *	0.35	mg/Kg	06/14/12		LK	SW6010
Sodium	76 N	7	mg/Kg	06/15/12		LK	SW6010
Nickel	8.84	0.35	mg/Kg	06/14/12		LK	SW6010
Lead	35.0	0.71	mg/Kg	06/14/12		LK	SW6010
Antimony	< 1.8	1.8	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.4	1.4	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	12.7	0.35	mg/Kg	06/14/12		LK	SW6010
Zinc	31.2	0.71	mg/Kg	06/14/12		LK	SW6010
Percent Solid	85		%	06/12/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Volatile Library Search Top 10	Completed			06/19/12		H/J	

Parameter	Result	RL	Units	Date	Time	By	Reference
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	06/14/12		H/J	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	06/14/12		H/J	70 - 121 %
% Bromofluorobenzene	99		%	06/14/12		H/J	59 - 113 %
% Toluene-d8	105		%	06/14/12		H/J	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/14/12		H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/14/12		H/J	SW8260
Acetone	62 S	59	ug/Kg	06/14/12		H/J	SW8260
Benzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Cyclohexane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260 1P
Dibromochloromethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Methyl ethyl ketone	ND	35	ug/Kg	06/14/12		H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/14/12		H/J	SW8260
Methylacetate	ND	5.9	ug/Kg	06/14/12		H/J	SW8260 1P
Methylcyclohexane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260 1P
Methylene chloride	58 S	5.9	ug/Kg	06/14/12		H/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Styrene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Toluene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/14/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	06/14/12		H/J	70 - 121 %
% Bromofluorobenzene	93		%	06/14/12		H/J	59 - 113 %
% Dibromofluoromethane	93		%	06/14/12		H/J	70 - 130 %
% Toluene-d8	101		%	06/14/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	150	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	150	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	150	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	150	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	150	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	760	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	1900	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	150	ug/Kg	06/13/12		DD	SW 8270
Acetophenone	ND	270	ug/Kg	06/13/12		DD	SW 8270
Anthracene	220 J	270	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	150	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	450	270	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	270	ug/Kg	06/13/12		DD	SW 8270 1P

Parameter	Result	RL	Units	Date	Time	By	Reference
Benzo(a)pyrene	380	150	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	440	270	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	180 J	270	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	160 J	270	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	150	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	270	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	1900	ug/Kg	06/13/12		DD	SW 8270
Chrysene	450	270	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	150	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	960	270	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	150	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	150	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	160 J	270	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	150	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	130 J	270	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	150	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	270	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	150	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	150	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	890	150	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
Pyrene	970	270	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	68		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	65		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	65		%	06/13/12		DD	23 - 120 %
% Phenol-d5	63		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	85		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

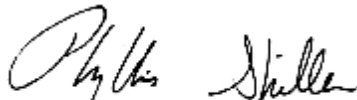
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

<u>Date</u>	<u>Time</u>
06/11/12	8:45
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97040

Project ID: 145 WEST ST.

Client ID: WS H2-25

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/14/12		LK	SW6010
Aluminum	5410	41	mg/Kg	06/14/12		LK	SW6010
Arsenic	3.44	0.81	mg/Kg	06/14/12		LK	SW6010
Barium	27.0	0.81	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.279 B	0.33	mg/Kg	06/14/12		LK	SW6010
Calcium	1780 *	4.1	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	06/14/12		LK	SW6010
Cobalt	7.50	0.41	mg/Kg	06/14/12		LK	SW6010
Chromium	16.6	0.41	mg/Kg	06/15/12		LK	SW6010
Copper	15.0	0.41	mg/kg	06/14/12		LK	SW6010
Iron	36000	41	mg/Kg	06/14/12		LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	06/13/12		RS	SW-7471
Potassium	689 N	8	mg/Kg	06/14/12		LK	SW6010
Magnesium	1860	4.1	mg/Kg	06/14/12		LK	SW6010
Manganese	752 *	4.1	mg/Kg	06/14/12		LK	SW6010
Sodium	109 N	8	mg/Kg	06/15/12		LK	SW6010
Nickel	11.8	0.41	mg/Kg	06/14/12		LK	SW6010
Lead	8.00	0.81	mg/Kg	06/14/12		LK	SW6010
Antimony	< 2.0	2.0	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.6	1.6	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	29.5	0.41	mg/Kg	06/14/12		LK	SW6010
Zinc	42.5	0.81	mg/Kg	06/14/12		LK	SW6010
Percent Solid	82		%	06/12/12		JL	E160.3
Soil Extraction for PCB	Completed			06/12/12		JB	SW3545
Soil Extraction for Pesticide	Completed			06/12/12		JB/F	SW3545
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/12/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4-D	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4-DB	ND	500	ug/Kg	06/13/12		JRB	SW8151
Dalapon	ND	50	ug/Kg	06/13/12		JRB	SW8151
Dicamba	ND	100	ug/Kg	06/13/12		JRB	SW8151
Dichloroprop	ND	50	ug/Kg	06/13/12		JRB	SW8151
Dinoseb	ND	100	ug/Kg	06/13/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	75		%	06/13/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1221	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1232	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1242	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1248	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1254	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1260	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1262	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1268	ND	100	ug/Kg	06/13/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	73		%	06/13/12		MH	30 - 150 %
% TCMX	77		%	06/13/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.9	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDE	ND	2.9	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDT	ND	2.9	ug/Kg	06/14/12		KCA	SW8081
a-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
a-Chlordane	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Aldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
b-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Chlordane	ND	24	ug/Kg	06/14/12		KCA	SW8081
d-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Dieldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan I	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan II	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan sulfate	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endrin aldehyde	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endrin ketone	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-Chlordane	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Heptachlor	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Heptachlor epoxide	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Methoxychlor	ND	8.1	ug/Kg	06/14/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	39	ug/Kg	06/14/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	80		%	06/14/12		KCA	SW8081
% TCMX	66		%	06/14/12		KCA	SW8081
Volatile Library Search Top 10	Completed			06/19/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/14/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/14/12		H/J	70 - 121 %
% Bromofluorobenzene	102		%	06/14/12		H/J	59 - 113 %
% Toluene-d8	99		%	06/14/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/14/12		H/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/14/12		H/J	SW8260
Acetone	70 S	61	ug/Kg	06/14/12		H/J	SW8260
Benzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Bromoform	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Bromomethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Chloroethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Chloroform	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Chloromethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Cyclohexane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Isopropylbenzene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Methyl ethyl ketone	ND	37	ug/Kg	06/14/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/14/12		H/J	SW8260
Methylacetate	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Methylcyclohexane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Methylene chloride	18 S	6.1	ug/Kg	06/14/12		H/J	SW8260
o-Xylene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Styrene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Toluene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Total Xylenes	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	06/14/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	06/14/12		H/J	70 - 121 %
% Bromofluorobenzene	96		%	06/14/12		H/J	59 - 113 %
% Dibromofluoromethane	102		%	06/14/12		H/J	70 - 130 %
% Toluene-d8	96		%	06/14/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	800	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Acetophenone	ND	280	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	280	ug/Kg	06/13/12		DD	SW 8270 1P
Benzo(a)pyrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	280	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	280	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	85		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	74		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	67		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	69		%	06/13/12		DD	23 - 120 %
% Phenol-d5	65		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	87		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

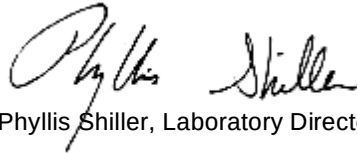
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

<u>Date</u>	<u>Time</u>
06/11/12	8:00
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97041

Project ID: 145 WEST ST.

Client ID: WS G2

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	0.170 B	0.42	mg/Kg	06/14/12		LK	SW6010
Aluminum	5540	42	mg/Kg	06/14/12		LK	SW6010
Arsenic	3.78	0.84	mg/Kg	06/14/12		LK	SW6010
Barium	146	0.84	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.176 B	0.34	mg/Kg	06/14/12		LK	SW6010
Calcium	3180 *	4.2	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	06/14/12		LK	SW6010
Cobalt	5.43	0.42	mg/Kg	06/14/12		LK	SW6010
Chromium	12.3	0.42	mg/Kg	06/15/12		LK	SW6010
Copper	33.4	0.42	mg/kg	06/14/12		LK	SW6010
Iron	15000	42	mg/Kg	06/14/12		LK	SW6010
Mercury	0.51	0.10	mg/Kg	06/13/12		RS	SW-7471
Potassium	869 N	8	mg/Kg	06/14/12		LK	SW6010
Magnesium	2480	4.2	mg/Kg	06/14/12		LK	SW6010
Manganese	401 *	4.2	mg/Kg	06/14/12		LK	SW6010
Sodium	96 N	8	mg/Kg	06/15/12		LK	SW6010
Nickel	9.47	0.42	mg/Kg	06/14/12		LK	SW6010
Lead	129	0.84	mg/Kg	06/14/12		LK	SW6010
Antimony	< 2.1	2.1	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.7	1.7	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	18.7	0.42	mg/Kg	06/14/12		LK	SW6010
Zinc	45.8	0.84	mg/Kg	06/14/12		LK	SW6010
Percent Solid	79		%	06/12/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Volatile Library Search Top 10	Completed			06/19/12		H/J	

Parameter	Result	RL	Units	Date	Time	By	Reference
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	73		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	92		%	06/13/12		H/J	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	32	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	06/13/12		H/J	SW8260
Acetone	310 E	63	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	3.7 J	6.3	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Isopropylbenzene	2.8 J	6.3	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	35 J	38	ug/Kg	06/13/12		H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1P
Methylcyclohexane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1P
Methylene chloride	9.4 S	6.3	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Styrene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	65		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	102		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	89		%	06/13/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	290	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	170 J	290	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	820	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	680	290	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Acetophenone	ND	290	ug/Kg	06/13/12		DD	SW 8270
Anthracene	1400	290	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	1600	290	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	290	ug/Kg	06/13/12		DD	SW 8270 1P

Parameter	Result	RL	Units	Date	Time	By	Reference
Benzo(a)pyrene	1300	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	1500	290	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	540	290	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	550	290	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	290	ug/Kg	06/13/12		DD	SW 8270
Carbazole	370 J	2000	ug/Kg	06/13/12		DD	SW 8270
Chrysene	1500	290	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	180	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	350	290	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	3000	290	ug/Kg	06/13/12		DD	SW 8270
Fluorene	710	290	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	510	290	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	150 J	290	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	290	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	4300	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
Pyrene	2800	290	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	78		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	65		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	60		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	60		%	06/13/12		DD	23 - 120 %
% Phenol-d5	59		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	67		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

Comments:

Poor surrogate recovery was observed for volatiles. Sample was analyzed twice with similar results indicating matrix interference.

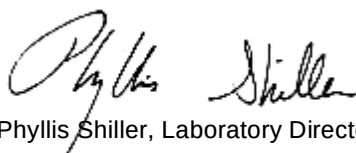
E = Estimated value. Sample result was above the calibration range. Subsequent dilution did not correlate well with original analysis results.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	10:00
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97042

Project ID: 145 WEST ST.

Client ID: WS J4

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	Pending		mg/Kg				SW6010
Aluminum	6430	43	mg/Kg	06/22/12		LK	SW6010
Arsenic	2.01	0.86	mg/Kg	06/22/12		LK	SW6010
Barium	48.8 *	0.86	mg/Kg	06/22/12		LK	SW6010
Beryllium	0.256 B	0.34	mg/Kg	06/22/12		LK	SW6010
Calcium	1590 *	4.3	mg/Kg	06/22/12		LK	SW6010
Cadmium	< 0.43	0.43	mg/Kg	06/22/12		LK	SW6010
Cobalt	5.58	0.43	mg/Kg	06/22/12		LK	SW6010
Chromium	11.3	0.43	mg/Kg	06/22/12		LK	SW6010
Copper	10.4	0.43	mg/kg	06/22/12		LK	SW6010
Iron	11900	4.3	mg/Kg	06/22/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/13/12		RS	SW-7471
Potassium	863 N	9	mg/Kg	06/22/12		LK	SW6010
Magnesium	2440	4.3	mg/Kg	06/22/12		LK	SW6010
Manganese	260 N	4.3	mg/Kg	06/22/12		LK	SW6010
Sodium	98	9	mg/Kg	06/22/12		LK	SW6010
Nickel	13.2	0.43	mg/Kg	06/22/12		LK	SW6010
Lead	25.9 *	0.86	mg/Kg	06/22/12		LK	SW6010
QC for Mercury	Completed			06/13/12			
QC for ICP	Completed			06/22/12			SW6010
Antimony	0.778 B	2.1	mg/Kg	06/22/12		LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/22/12		LK	SW6010
Thallium	< 1.7	1.7	mg/Kg	06/22/12		LK	SW6010
Total Metals Digest MS/MSD	Completed			06/22/12			
Total Metals Digest	Completed			06/21/12		N/AG	SW846 - 3050
Vanadium	13.8	0.43	mg/Kg	06/22/12		LK	SW6010
Zinc	73.4 N	0.86	mg/Kg	06/22/12		LK	SW6010
Percent Solid	82		%	06/12/12		JL	E160.3

Parameter	Result	RL	Units	Date	Time	By	Reference
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545
Mercury Digestion MS/MSD	Completed			06/13/12			SW7471
Mercury Digestion	Completed			06/13/12		X/X	SW7471
MS/MSD Ext. for Semi-Vol.	Completed			06/13/12			
QC for Volatile	Completed			06/13/12		H/J	
QC for Volatile	Completed			06/13/12		H/J	
MS/MSD Volatiles	Completed			06/13/12		H/J	
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	98		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	103		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
Acetone	ND	61	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Isopropylbenzene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	ND	37	ug/Kg	06/13/12		H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Methylcyclohexane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Methylene chloride	7.2 S	6.1	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Styrene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	92		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	99		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	99		%	06/13/12		H/J	84 - 138 %
QC for Semi-Volatile	Completed			06/13/12			
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	810	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Acetophenone	ND	280	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benz(a)anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(a)pyrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	280	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	280	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	64		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	67		%	06/13/12		DD	23 - 120 %
% Phenol-d5	62		%	06/13/12		DD	24 - 113 %

Parameter	Result	RL	Units	Date	Time	By	Reference
% Terphenyl-d14	80		%	06/13/12		DD	18 - 137 %

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.

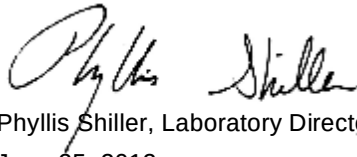
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	10:00
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97043

Project ID: 145 WEST ST.

Client ID: WS J4 DUP

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	Pending		mg/Kg				SW6010
Aluminum	6200	41	mg/Kg	06/22/12		LK	SW6010
Arsenic	2.27	0.82	mg/Kg	06/22/12		LK	SW6010
Barium	34.2 *	0.82	mg/Kg	06/22/12		LK	SW6010
Beryllium	0.280 B	0.33	mg/Kg	06/22/12		LK	SW6010
Calcium	2470 *	4.1	mg/Kg	06/22/12		LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	06/22/12		LK	SW6010
Cobalt	6.14	0.41	mg/Kg	06/22/12		LK	SW6010
Chromium	11.1	0.41	mg/Kg	06/22/12		LK	SW6010
Copper	11.3	0.41	mg/kg	06/22/12		LK	SW6010
Iron	11300	4.1	mg/Kg	06/22/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/13/12		RS	SW-7471
Potassium	861 N	8	mg/Kg	06/22/12		LK	SW6010
Magnesium	2370	4.1	mg/Kg	06/22/12		LK	SW6010
Manganese	253 N	4.1	mg/Kg	06/22/12		LK	SW6010
Sodium	87	8	mg/Kg	06/22/12		LK	SW6010
Nickel	11.7	0.41	mg/Kg	06/22/12		LK	SW6010
Lead	9.22 *	0.82	mg/Kg	06/22/12		LK	SW6010
Antimony	1.26 B	2.1	mg/Kg	06/22/12		LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/22/12		LK	SW6010
Thallium	< 1.6	1.6	mg/Kg	06/22/12		LK	SW6010
Total Metals Digest	Completed			06/21/12		N/AG	SW846 - 3050
Vanadium	13.1	0.41	mg/Kg	06/22/12		LK	SW6010
Zinc	58.0 N	0.82	mg/Kg	06/22/12		LK	SW6010
Percent Solid	81		%	06/12/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Volatile Library Search Top 10	Completed			06/14/12		H/J	

Parameter	Result	RL	Units	Date	Time	By	Reference
1,4-dioxane							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	100		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	99		%	06/13/12		H/J	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	31	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	06/13/12		H/J	SW8260
Acetone	ND	62	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Isopropylbenzene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	ND	37	ug/Kg	06/13/12		H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	6.2	ug/Kg	06/13/12		H/J	SW8260 1P
Methylcyclohexane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260 1P
Methylene chloride	9.0 S	6.2	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Styrene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	6.2	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	93		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	103		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	96		%	06/13/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	290	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	820	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Acetophenone	ND	290	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	290	ug/Kg	06/13/12		DD	SW 8270 1P

Parameter	Result	RL	Units	Date	Time	By	Reference
Benzo(a)pyrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	290	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	290	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	290	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	290	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	68		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	65		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	66		%	06/13/12		DD	23 - 120 %
% Phenol-d5	63		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	83		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

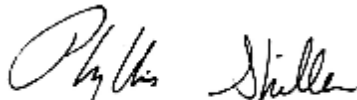
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	10:00
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97044

Project ID: 145 WEST ST.

Client ID: WS J4 25

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	0.126 B	0.38	mg/Kg	06/14/12		LK	SW6010
Aluminum	5070	38	mg/Kg	06/14/12		LK	SW6010
Arsenic	1.95	0.76	mg/Kg	06/14/12		LK	SW6010
Barium	39.2	0.76	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.187 B	0.31	mg/Kg	06/14/12		LK	SW6010
Calcium	815 *	3.8	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	06/14/12		LK	SW6010
Cobalt	4.10	0.38	mg/Kg	06/14/12		LK	SW6010
Chromium	10.4	0.38	mg/Kg	06/15/12		LK	SW6010
Copper	7.64	0.38	mg/kg	06/14/12		LK	SW6010
Iron	6310	3.8	mg/Kg	06/14/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/13/12		RS	SW-7471
Potassium	647 N	8	mg/Kg	06/14/12		LK	SW6010
Magnesium	1800	3.8	mg/Kg	06/14/12		LK	SW6010
Manganese	54.0 *	0.38	mg/Kg	06/14/12		LK	SW6010
Sodium	77 N	8	mg/Kg	06/15/12		LK	SW6010
Nickel	10.1	0.38	mg/Kg	06/14/12		LK	SW6010
Lead	3.00	0.76	mg/Kg	06/14/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	14.1	0.38	mg/Kg	06/14/12		LK	SW6010
Zinc	29.4	0.76	mg/Kg	06/14/12		LK	SW6010
Percent Solid	83		%	06/12/12		JL	E160.3
Soil Extraction for PCB	Completed			06/12/12		JB	SW3545
Soil Extraction for Pesticide	Completed			06/12/12		JB/F	SW3545
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/12/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4-D	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4-DB	ND	500	ug/Kg	06/13/12		JRB	SW8151
Dalapon	ND	50	ug/Kg	06/13/12		JRB	SW8151
Dicamba	ND	99	ug/Kg	06/13/12		JRB	SW8151
Dichloroprop	ND	50	ug/Kg	06/13/12		JRB	SW8151
Dinoseb	ND	99	ug/Kg	06/13/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	64		%	06/13/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1221	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1232	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1242	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1248	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1254	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1260	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1262	ND	99	ug/Kg	06/13/12		MH	SW 8082
PCB-1268	ND	99	ug/Kg	06/13/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	72		%	06/13/12		MH	30 - 150 %
% TCMX	78		%	06/13/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDE	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDT	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
a-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
a-Chlordane	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Aldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
b-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Chlordane	ND	24	ug/Kg	06/14/12		KCA	SW8081
d-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Dieldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan I	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endosulfan II	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endosulfan sulfate	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endrin aldehyde	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endrin ketone	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-Chlordane	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Heptachlor	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Heptachlor epoxide	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Methoxychlor	ND	7.9	ug/Kg	06/14/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	38	ug/Kg	06/14/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	82		%	06/14/12		KCA	SW8081
% TCMX	68		%	06/14/12		KCA	SW8081
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	101		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	103		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
Acetone	6.8 JS	60	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	ND	36	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methylcyclohexane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methylene chloride	8.7 S	6.0	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Styrene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	97		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	102		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	99		%	06/13/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	800	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Acetophenone	ND	280	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	280	ug/Kg	06/13/12		DD	SW 8270 1P
Benzo(a)pyrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	280	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	280	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	66		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	67		%	06/13/12		DD	23 - 120 %
% Phenol-d5	65		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	86		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

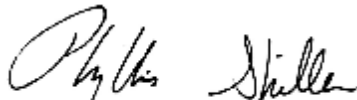
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	10:50
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97045

Project ID: 145 WEST ST.

Client ID: WS I3 25

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/14/12		LK	SW6010
Aluminum	8020	41	mg/Kg	06/14/12		LK	SW6010
Arsenic	2.58	0.82	mg/Kg	06/14/12		LK	SW6010
Barium	53.4	0.82	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.36	0.33	mg/Kg	06/14/12		LK	SW6010
Calcium	2020 *	4.1	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	06/14/12		LK	SW6010
Cobalt	3.96	0.41	mg/Kg	06/14/12		LK	SW6010
Chromium	39.7	0.41	mg/Kg	06/15/12		LK	SW6010
Copper	16.3	0.41	mg/kg	06/14/12		LK	SW6010
Iron	43000	41	mg/Kg	06/14/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/13/12		RS	SW-7471
Potassium	308 N	8	mg/Kg	06/14/12		LK	SW6010
Magnesium	878	4.1	mg/Kg	06/14/12		LK	SW6010
Manganese	938 *	4.1	mg/Kg	06/14/12		LK	SW6010
Sodium	82 N	8	mg/Kg	06/15/12		LK	SW6010
Nickel	6.31	0.41	mg/Kg	06/14/12		LK	SW6010
Lead	9.46	0.82	mg/Kg	06/14/12		LK	SW6010
Antimony	< 2.1	2.1	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.6	1.6	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	61.5	0.41	mg/Kg	06/14/12		LK	SW6010
Zinc	27.3	0.82	mg/Kg	06/14/12		LK	SW6010
Percent Solid	80		%	06/12/12		JL	E160.3
Soil Extraction for PCB	Completed			06/12/12		JB	SW3545
Soil Extraction for Pesticide	Completed			06/12/12		JB/F	SW3545
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/12/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	52	ug/Kg	06/13/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	52	ug/Kg	06/13/12		JRB	SW8151
2,4-D	ND	52	ug/Kg	06/13/12		JRB	SW8151
2,4-DB	ND	520	ug/Kg	06/13/12		JRB	SW8151
Dalapon	ND	52	ug/Kg	06/13/12		JRB	SW8151
Dicamba	ND	100	ug/Kg	06/13/12		JRB	SW8151
Dichloroprop	ND	52	ug/Kg	06/13/12		JRB	SW8151
Dinoseb	ND	100	ug/Kg	06/13/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	72		%	06/13/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1221	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1232	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1242	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1248	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1254	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1260	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1262	ND	100	ug/Kg	06/13/12		MH	SW 8082
PCB-1268	ND	100	ug/Kg	06/13/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	82		%	06/13/12		MH	30 - 150 %
% TCMX	74		%	06/13/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.9	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDE	ND	2.9	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDT	ND	2.9	ug/Kg	06/14/12		KCA	SW8081
a-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
a-Chlordane	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Aldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
b-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Chlordane	ND	24	ug/Kg	06/14/12		KCA	SW8081
d-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Dieldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan I	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan II	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan sulfate	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endrin aldehyde	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Endrin ketone	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-Chlordane	ND	4.0	ug/Kg	06/14/12		KCA	SW8081
Heptachlor	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Heptachlor epoxide	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Methoxychlor	ND	8.1	ug/Kg	06/14/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	39	ug/Kg	06/14/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	83		%	06/14/12		KCA	SW8081
% TCMX	68		%	06/14/12		KCA	SW8081
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	91		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	99		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	31	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	06/13/12		H/J	SW8260
Acetone	12 JS	63	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Isopropylbenzene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	ND	38	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Methylcyclohexane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Methylene chloride	13 S	6.3	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Styrene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	6.3	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	86		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	99		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	96		%	06/13/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	290	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	2100	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	2100	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	820	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	2100	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	2100	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Acetophenone	ND	290	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	290	ug/Kg	06/13/12		DD	SW 8270 1P
Benzo(a)pyrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	290	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	2100	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	290	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	290	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	290	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	290	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	290	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	72		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	66		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	60		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	57		%	06/13/12		DD	23 - 120 %
% Phenol-d5	58		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	76		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

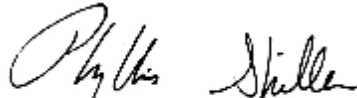
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	13:25
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97046

Project ID: 145 WEST ST.

Client ID: WS F1 30

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	0.142 B	0.40	mg/Kg	06/14/12		LK	SW6010
Aluminum	8980	40	mg/Kg	06/14/12		LK	SW6010
Arsenic	5.24	0.80	mg/Kg	06/14/12		LK	SW6010
Barium	87.1	0.80	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.316 B	0.32	mg/Kg	06/14/12		LK	SW6010
Calcium	3600 *	4.0	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.40	0.40	mg/Kg	06/14/12		LK	SW6010
Cobalt	5.99	0.40	mg/Kg	06/14/12		LK	SW6010
Chromium	29.7	0.40	mg/Kg	06/15/12		LK	SW6010
Copper	29.0	0.40	mg/kg	06/14/12		LK	SW6010
Iron	47500	40	mg/Kg	06/14/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/13/12		RS	SW-7471
Potassium	1680 N	8	mg/Kg	06/14/12		LK	SW6010
Magnesium	2260	4.0	mg/Kg	06/14/12		LK	SW6010
Manganese	194 *	4.0	mg/Kg	06/14/12		LK	SW6010
Sodium	729 N	8	mg/Kg	06/15/12		LK	SW6010
Nickel	13.1	0.40	mg/Kg	06/14/12		LK	SW6010
Lead	22.8	0.80	mg/Kg	06/14/12		LK	SW6010
Antimony	< 2.0	2.0	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.6	1.6	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	36.8	0.40	mg/Kg	06/14/12		LK	SW6010
Zinc	54.5	0.80	mg/Kg	06/14/12		LK	SW6010
Percent Solid	84		%	06/12/12		JL	E160.3
Soil Extraction for PCB	Completed			06/12/12		JB	SW3545
Soil Extraction for Pesticide	Completed			06/12/12		JB/F	SW3545
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/12/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	49	ug/Kg	06/13/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	49	ug/Kg	06/13/12		JRB	SW8151
2,4-D	ND	49	ug/Kg	06/13/12		JRB	SW8151
2,4-DB	ND	490	ug/Kg	06/13/12		JRB	SW8151
Dalapon	ND	49	ug/Kg	06/13/12		JRB	SW8151
Dicamba	ND	98	ug/Kg	06/13/12		JRB	SW8151
Dichloroprop	ND	49	ug/Kg	06/13/12		JRB	SW8151
Dinoseb	ND	98	ug/Kg	06/13/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	67		%	06/13/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1221	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1232	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1242	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1248	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1254	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1260	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1262	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1268	ND	98	ug/Kg	06/13/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	81		%	06/13/12		MH	30 - 150 %
% TCMX	68		%	06/13/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDE	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDT	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
a-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
a-Chlordane	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Aldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
b-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Chlordane	ND	24	ug/Kg	06/14/12		KCA	SW8081
d-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Dieldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan I	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endosulfan II	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endosulfan sulfate	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endrin aldehyde	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endrin ketone	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-Chlordane	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Heptachlor	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Heptachlor epoxide	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Methoxychlor	ND	7.9	ug/Kg	06/14/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	38	ug/Kg	06/14/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	76		%	06/14/12		KCA	SW8081
% TCMX	64		%	06/14/12		KCA	SW8081
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	93		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	97		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
Acetone	14 JS	60	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	ND	36	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methylcyclohexane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methylene chloride	12 S	6.0	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Styrene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	88		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	94		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	94		%	06/13/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	270	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	780	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	1900	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Acetophenone	ND	270	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	270	ug/Kg	06/13/12		DD	SW 8270 1P
Benzo(a)pyrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	270	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	1900	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	270	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	270	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	270	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	65		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	66		%	06/13/12		DD	23 - 120 %
% Phenol-d5	64		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	82		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

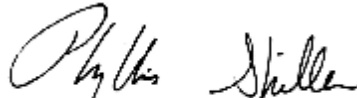
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	11:45
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97047

Project ID: 145 WEST ST.

Client ID: WS K4 30

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	06/14/12		LK	SW6010
Aluminum	4340	37	mg/Kg	06/14/12		LK	SW6010
Arsenic	4.21	0.74	mg/Kg	06/14/12		LK	SW6010
Barium	30.6	0.74	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.223 B	0.29	mg/Kg	06/14/12		LK	SW6010
Calcium	1660 *	3.7	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	06/14/12		LK	SW6010
Cobalt	4.07	0.37	mg/Kg	06/14/12		LK	SW6010
Chromium	12.6	0.37	mg/Kg	06/15/12		LK	SW6010
Copper	16.6	0.37	mg/kg	06/14/12		LK	SW6010
Iron	13000	37	mg/Kg	06/14/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/13/12		RS	SW-7471
Potassium	818 N	7	mg/Kg	06/14/12		LK	SW6010
Magnesium	2090	3.7	mg/Kg	06/14/12		LK	SW6010
Manganese	109 *	0.37	mg/Kg	06/14/12		LK	SW6010
Sodium	197 N	7	mg/Kg	06/15/12		LK	SW6010
Nickel	6.77	0.37	mg/Kg	06/14/12		LK	SW6010
Lead	4.60	0.74	mg/Kg	06/14/12		LK	SW6010
Antimony	< 1.8	1.8	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	42.3	0.37	mg/Kg	06/14/12		LK	SW6010
Zinc	20.5	0.74	mg/Kg	06/14/12		LK	SW6010
Percent Solid	87		%	06/12/12		JL	E160.3
Soil Extraction for PCB	Completed			06/12/12		JB	SW3545
Soil Extraction for Pesticide	Completed			06/12/12		JB/F	SW3545
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/12/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	48	ug/Kg	06/13/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	48	ug/Kg	06/13/12		JRB	SW8151
2,4-D	ND	48	ug/Kg	06/13/12		JRB	SW8151
2,4-DB	ND	480	ug/Kg	06/13/12		JRB	SW8151
Dalapon	ND	48	ug/Kg	06/13/12		JRB	SW8151
Dicamba	ND	95	ug/Kg	06/13/12		JRB	SW8151
Dichloroprop	ND	48	ug/Kg	06/13/12		JRB	SW8151
Dinoseb	ND	95	ug/Kg	06/13/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	69		%	06/13/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1221	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1232	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1242	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1248	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1254	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1260	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1262	ND	95	ug/Kg	06/13/12		MH	SW 8082
PCB-1268	ND	95	ug/Kg	06/13/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	91		%	06/13/12		MH	30 - 150 %
% TCMX	74		%	06/13/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.7	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDE	ND	2.7	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDT	ND	2.7	ug/Kg	06/14/12		KCA	SW8081
a-BHC	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
a-Chlordane	ND	3.8	ug/Kg	06/14/12		KCA	SW8081
Aldrin	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
b-BHC	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
Chlordane	ND	23	ug/Kg	06/14/12		KCA	SW8081
d-BHC	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
Dieldrin	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
Endosulfan I	ND	3.8	ug/Kg	06/14/12		KCA	SW8081
Endosulfan II	ND	3.8	ug/Kg	06/14/12		KCA	SW8081
Endosulfan sulfate	ND	3.8	ug/Kg	06/14/12		KCA	SW8081
Endrin	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
Endrin aldehyde	ND	3.8	ug/Kg	06/14/12		KCA	SW8081
Endrin ketone	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
g-BHC	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
g-Chlordane	ND	3.8	ug/Kg	06/14/12		KCA	SW8081
Heptachlor	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
Heptachlor epoxide	ND	1.9	ug/Kg	06/14/12		KCA	SW8081
Methoxychlor	ND	7.6	ug/Kg	06/14/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	36	ug/Kg	06/14/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	83		%	06/14/12		KCA	SW8081
% TCMX	68		%	06/14/12		KCA	SW8081
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	97		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	103		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/13/12		H/J	SW8260
Acetone	6.0 JS	57	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	ND	34	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Methylcyclohexane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Methylene chloride	11 S	5.7	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Styrene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	91		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	97		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	100		%	06/13/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	260	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	150	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	150	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	150	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	150	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	260	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	150	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	260	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	740	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	1900	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	1900	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	150	ug/Kg	06/13/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Acetophenone	ND	260	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	150	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	260	ug/Kg	06/13/12		DD	SW 8270 1P
Benzo(a)pyrene	ND	150	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	150	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	260	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	1900	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	150	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	150	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	150	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	150	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	150	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	260	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	150	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	150	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	150	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	260	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	260	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	63		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	68		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	63		%	06/13/12		DD	23 - 120 %
% Phenol-d5	67		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	86		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

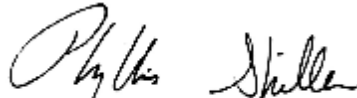
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	14:15
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97048

Project ID: 145 WEST ST.

Client ID: WS I1 30

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/14/12		LK	SW6010
Aluminum	6400	41	mg/Kg	06/14/12		LK	SW6010
Arsenic	1.78	0.83	mg/Kg	06/14/12		LK	SW6010
Barium	30.8	0.83	mg/Kg	06/14/12		LK	SW6010
Beryllium	0.46	0.33	mg/Kg	06/14/12		LK	SW6010
Calcium	1080 *	4.1	mg/Kg	06/14/12		LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	06/14/12		LK	SW6010
Cobalt	4.33	0.41	mg/Kg	06/14/12		LK	SW6010
Chromium	14.5	0.41	mg/Kg	06/15/12		LK	SW6010
Copper	11.2	0.41	mg/kg	06/14/12		LK	SW6010
Iron	21100	41	mg/Kg	06/14/12		LK	SW6010
Mercury	< 0.09	0.09	mg/Kg	06/13/12		RS	SW-7471
Potassium	551 N	8	mg/Kg	06/14/12		LK	SW6010
Magnesium	1130	4.1	mg/Kg	06/14/12		LK	SW6010
Manganese	236 *	4.1	mg/Kg	06/14/12		LK	SW6010
Sodium	64 N	8	mg/Kg	06/15/12		LK	SW6010
Nickel	6.23	0.41	mg/Kg	06/14/12		LK	SW6010
Lead	12.8	0.83	mg/Kg	06/14/12		LK	SW6010
Antimony	< 2.1	2.1	mg/Kg	06/14/12		LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/14/12		LK	SW6010
Thallium	< 1.7	1.7	mg/Kg	06/14/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	23.2	0.41	mg/Kg	06/14/12		LK	SW6010
Zinc	36.2	0.83	mg/Kg	06/14/12		LK	SW6010
Percent Solid	83		%	06/12/12		JL	E160.3
Soil Extraction for PCB	Completed			06/12/12		JB	SW3545
Soil Extraction for Pesticide	Completed			06/12/12		JB/F	SW3545
Soil Extraction for SVOA	Completed			06/12/12		JB/F	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Mercury Digestion	Completed			06/13/12		X/X	SW7471
Soil Extraction for Herbicide	Completed			06/12/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4-D	ND	50	ug/Kg	06/13/12		JRB	SW8151
2,4-DB	ND	500	ug/Kg	06/13/12		JRB	SW8151
Dalapon	ND	50	ug/Kg	06/13/12		JRB	SW8151
Dicamba	ND	100	ug/Kg	06/13/12		JRB	SW8151
Dichloroprop	ND	50	ug/Kg	06/13/12		JRB	SW8151
Dinoseb	ND	100	ug/Kg	06/13/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	69		%	06/13/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1221	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1232	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1242	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1248	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1254	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1260	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1262	ND	98	ug/Kg	06/13/12		MH	SW 8082
PCB-1268	ND	98	ug/Kg	06/13/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	75		%	06/13/12		MH	30 - 150 %
% TCMX	62		%	06/13/12		MH	30 - 150 %
<u>Pesticides - Soil</u>							
4,4' -DDD	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDE	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
4,4' -DDT	ND	2.8	ug/Kg	06/14/12		KCA	SW8081
a-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
a-Chlordane	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Aldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
b-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Chlordane	ND	24	ug/Kg	06/14/12		KCA	SW8081
d-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Dieldrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endosulfan I	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endosulfan II	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endosulfan sulfate	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endrin	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Endrin aldehyde	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Endrin ketone	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-BHC	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
g-Chlordane	ND	3.9	ug/Kg	06/14/12		KCA	SW8081
Heptachlor	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Heptachlor epoxide	ND	2.0	ug/Kg	06/14/12		KCA	SW8081
Methoxychlor	ND	7.9	ug/Kg	06/14/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	38	ug/Kg	06/14/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	69		%	06/14/12		KCA	SW8081
% TCMX	60		%	06/14/12		KCA	SW8081
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	82		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	101		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/13/12		H/J	SW8260
Acetone	11 JS	60	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Cyclohexane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260 1P
Dibromochloromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methyl ethyl ketone	ND	36	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/13/12		H/J	SW8260
Methylacetate	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methylcyclohexane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Methylene chloride	13 S	6.0	ug/Kg	06/13/12		H/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Styrene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Toluene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	78		%	06/13/12		H/J	59 - 113 %
% Dibromofluoromethane	94		%	06/13/12		H/J	70 - 130 %
% Toluene-d8	98		%	06/13/12		H/J	84 - 138 %
SVOA Library Search Top 15	Completed			06/13/12		DD	
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	06/13/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dichlorophenol	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2,4-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2,6-Dinitrotoluene	ND	160	ug/Kg	06/13/12		DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
2-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/13/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	160	ug/Kg	06/13/12		DD	SW 8270
3-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Chloroaniline	ND	790	ug/Kg	06/13/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
4-Nitroaniline	ND	2000	ug/Kg	06/13/12		DD	SW 8270
4-Nitrophenol	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Acenaphthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Acenaphthylene	ND	160	ug/Kg	06/13/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Acetophenone	ND	280	ug/Kg	06/13/12		DD	SW 8270
Anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Atrazine	ND	160	ug/Kg	06/13/12		DD	SW 8270 1P
Benz(a)anthracene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzaldehyde	ND	280	ug/Kg	06/13/12		DD	SW 8270 1P
Benzo(a)pyrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Benzyl butyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	160	ug/Kg	06/13/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/13/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Caprolactam	ND	280	ug/Kg	06/13/12		DD	SW 8270
Carbazole	ND	2000	ug/Kg	06/13/12		DD	SW 8270
Chrysene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	06/13/12		DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluoranthene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Fluorene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Hexachloroethane	ND	160	ug/Kg	06/13/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Isophorone	ND	160	ug/Kg	06/13/12		DD	SW 8270
Naphthalene	ND	280	ug/Kg	06/13/12		DD	SW 8270
Nitrobenzene	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodimethylamine	ND	280	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	160	ug/Kg	06/13/12		DD	SW 8270
Pentachlorophenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Phenanthrene	ND	160	ug/Kg	06/13/12		DD	SW 8270
Phenol	ND	280	ug/Kg	06/13/12		DD	SW 8270
Pyrene	ND	280	ug/Kg	06/13/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	06/13/12		DD	19 - 122 %
% 2-Fluorobiphenyl	66		%	06/13/12		DD	30 - 115 %
% 2-Fluorophenol	64		%	06/13/12		DD	25 - 121 %
% Nitrobenzene-d5	61		%	06/13/12		DD	23 - 120 %
% Phenol-d5	64		%	06/13/12		DD	24 - 113 %
% Terphenyl-d14	85		%	06/13/12		DD	18 - 137 %

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

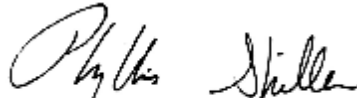
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
06/11/12 0:00
06/12/12 18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97049

Project ID: 145 WEST ST.
Client ID: TRIP BLANK HIGH

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%				E160.3
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	5000	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	102		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	99		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	1300	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	06/13/12		H/J	SW8260
Acetone	ND	2500	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	250	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference	
Bromochloromethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Bromodichloromethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Bromoform	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Bromomethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Carbon Disulfide	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Carbon tetrachloride	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Chlorobenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Chloroethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Chloroform	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Chloromethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
cis-1,2-Dichloroethene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
cis-1,3-Dichloropropene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Cyclohexane	ND	250	ug/Kg	06/13/12		H/J	SW8260	1P
Dibromochloromethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Dichlorodifluoromethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Ethylbenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Isopropylbenzene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
m&p-Xylene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Methyl ethyl ketone	ND	1500	ug/Kg	06/13/12		H/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	500	ug/Kg	06/13/12		H/J	SW8260	
Methylacetate	ND	250	ug/Kg	06/13/12		H/J	SW8260	1P
Methylcyclohexane	ND	250	ug/Kg	06/13/12		H/J	SW8260	1P
Methylene chloride	68 JS	250	ug/Kg	06/13/12		H/J	SW8260	
o-Xylene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Styrene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Tetrachloroethene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Toluene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Total Xylenes	ND	250	ug/Kg	06/13/12		H/J	SW8260	
trans-1,2-Dichloroethene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
trans-1,3-Dichloropropene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Trichloroethene	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Trichlorofluoromethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Trichlorotrifluoroethane	ND	250	ug/Kg	06/13/12		H/J	SW8260	
Vinyl chloride	ND	250	ug/Kg	06/13/12		H/J	SW8260	
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101		%	06/13/12		H/J	70 - 121 %	
% Bromofluorobenzene	96		%	06/13/12		H/J	59 - 113 %	
% Dibromofluoromethane	104		%	06/13/12		H/J	70 - 130 %	
% Toluene-d8	96		%	06/13/12		H/J	84 - 138 %	

Project ID: 145 WEST ST.
Client ID: TRIP BLANK HIGH

Phoenix I.D.: BB97049

Parameter	Result	RL	Units	Date	Time	By	Reference

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

Comments:

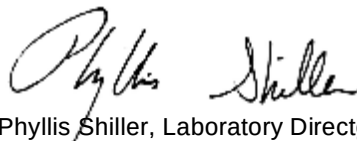
TRIP BLANK INCLUDED 100% SOLID ASSUMED

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/11/12	8:00
06/12/12	18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97050

Project ID: 145 WEST ST.

Client ID: FIELD BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	0.0003 B	0.005	mg/L	06/13/12		LK	SW6010
Aluminum	0.0025 B	0.010	mg/L	06/13/12		LK	SW6010
Arsenic - LDL	< 0.003	0.003	mg/L	06/13/12		LK	SW6010
Barium	< 0.010	0.010	mg/L	06/13/12		LK	SW6010
Beryllium	< 0.001	0.001	mg/L	06/13/12		LK	SW6010
Calcium	0.019	0.010	mg/L	06/13/12		LK	SW6010
Cadmium	< 0.004	0.004	mg/L	06/13/12		LK	SW6010
Cobalt	< 0.005	0.005	mg/L	06/13/12		LK	SW6010
Chromium	< 0.001	0.001	mg/L	06/13/12		LK	SW6010/E200.7
Copper	< 0.005	0.005	mg/L	06/13/12		LK	SW6010
Iron	< 0.01	0.01	mg/L	06/13/12		LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	06/13/12		RS	SW7470
Potassium	< 0.1	0.1	mg/L	06/13/12		LK	SW6010
Magnesium	0.0036 B	0.01	mg/L	06/13/12		LK	SW6010
Manganese	< 0.005	0.005	mg/L	06/13/12		LK	SW6010
Sodium	0.0184 B	0.1	mg/L	06/13/12		LK	SW6010
Nickel	< 0.004	0.004	mg/L	06/13/12		LK	SW6010
Lead	< 0.002	0.002	mg/L	06/13/12		LK	SW6010/E200.7
Antimony	< 0.003	0.003	mg/L	06/14/12		RS	7010
Selenium	< 0.004	0.004	mg/L	06/13/12		RS	7010
Thallium - LDL	< 0.002	0.002	mg/L	06/13/12		RS	7010
Total Metals Digestion	Completed			06/12/12		AG	
Vanadium	0.0005 B	0.01	mg/L	06/13/12		LK	SW6010
Zinc	< 0.010	0.010	mg/L	06/13/12		LK	SW6010
Mercury Digestion	Completed			06/13/12		X/X	SW7470
Semi-Volatile Extraction	Completed			06/13/12		F/K	SW3520
Volatile Library Search Top 10	Completed			06/14/12		R/T	

1

Parameter	Result	RL	Units	Date	Time	By	Reference
1,4-dioxane							
1,4-dioxane	ND	100	ug/l	06/13/12		H/J	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	98		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	104		%	06/13/12		H/J	84 - 138 %
Volatiles							
1,1,1-Trichloroethane	ND	2.0	ug/L	06/14/12		R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
1,1,2-Trichloroethane	ND	2.0	ug/L	06/14/12		R/T	SW8260
1,1-Dichloroethane	ND	2.0	ug/L	06/14/12		R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	06/14/12		R/T	SW8260
1,2,3-Trichlorobenzene	0.21 J	1.0	ug/L	06/14/12		R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	06/14/12		R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	06/14/12		R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
1,2-Dichlorobenzene	ND	2.0	ug/L	06/14/12		R/T	SW8260
1,2-Dichloroethane	ND	2.0	ug/L	06/14/12		R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	06/14/12		R/T	SW8260
1,3-Dichlorobenzene	ND	2.0	ug/L	06/14/12		R/T	SW8260
1,4-Dichlorobenzene	ND	2.0	ug/L	06/14/12		R/T	SW8260
2-Hexanone	ND	1.0	ug/L	06/14/12		R/T	SW8260
4-Methyl-2-pentanone	ND	1.0	ug/L	06/14/12		R/T	SW8260
Acetone	0.78 J	5.0	ug/L	06/14/12		R/T	SW8260
Benzene	ND	0.70	ug/L	06/14/12		R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
Bromodichloromethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
Bromoform	ND	1.0	ug/L	06/14/12		R/T	SW8260
Bromomethane	ND	2.0	ug/L	06/14/12		R/T	SW8260
Carbon Disulfide	ND	1.0	ug/L	06/14/12		R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	06/14/12		R/T	SW8260
Chlorobenzene	ND	2.0	ug/L	06/14/12		R/T	SW8260
Chloroethane	ND	2.0	ug/L	06/14/12		R/T	SW8260
Chloroform	ND	2.0	ug/L	06/14/12		R/T	SW8260
Chloromethane	ND	2.0	ug/L	06/14/12		R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	06/14/12		R/T	SW8260
cis-1,3-Dichloropropene	ND	1.0	ug/L	06/14/12		R/T	SW8260
Cyclohexane	ND	5.0	ug/L	06/14/12		R/T	SW8260
Dibromochloromethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	06/14/12		R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	06/14/12		R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	06/14/12		R/T	SW8260
Methyl ethyl ketone	ND	1.0	ug/L	06/14/12		R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	06/14/12		R/T	SW8260
Methylacetate	ND	5.0	ug/L	06/14/12		R/T	SW8260
Methylcyclohexane	ND	5.0	ug/L	06/14/12		R/T	SW8260
Methylene chloride	0.20 J	3.0	ug/L	06/14/12		R/T	SW8260
o-Xylene	ND	1.0	ug/L	06/14/12		R/T	SW8260

Client ID: FIELD BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Styrene	ND	1.0	ug/L	06/14/12		R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	06/14/12		R/T	SW8260
Toluene	ND	2.0	ug/L	06/14/12		R/T	SW8260
Total Xylenes	ND	1.0	ug/L	06/14/12		R/T	SW8260
trans-1,2-Dichloroethene	ND	2.0	ug/L	06/14/12		R/T	SW8260
trans-1,3-Dichloropropene	ND	1.0	ug/L	06/14/12		R/T	SW8260
Trichloroethene	ND	1.0	ug/L	06/14/12		R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	06/14/12		R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	06/14/12		R/T	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	06/14/12		R/T	70 - 121 %
% Bromofluorobenzene	111		%	06/14/12		R/T	59 - 113 %
% Dibromofluoromethane	98		%	06/14/12		R/T	70 - 130 %
% Toluene-d8	104		%	06/14/12		R/T	84 - 138 %
SVOA Library Search Top 15	Completed			06/15/12		DD	
<u>Semivolatiles</u>							
2,3,4,6-tetrachlorophenol	ND	2.3	ug/L	06/15/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	2.7	ug/L	06/15/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	1.6	ug/L	06/15/12		DD	SW 8270
2,4-Dichlorophenol	ND	1.8	ug/L	06/15/12		DD	SW 8270
2,4-Dimethylphenol	ND	1.2	ug/L	06/15/12		DD	SW 8270
2,4-Dinitrophenol	ND	3.5	ug/L	06/15/12		DD	SW 8270
2,4-Dinitrotoluene	ND	2.0	ug/L	06/15/12		DD	SW 8270
2,6-Dinitrotoluene	ND	1.6	ug/L	06/15/12		DD	SW 8270
2-Chloronaphthalene	ND	1.4	ug/L	06/15/12		DD	SW 8270
2-Chlorophenol	ND	1.4	ug/L	06/15/12		DD	SW 8270
2-Methylnaphthalene	ND	1.5	ug/L	06/15/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	2.4	ug/L	06/15/12		DD	SW 8270
2-Nitroaniline	ND	5.1	ug/L	06/15/12		DD	SW 8270
2-Nitrophenol	ND	3.2	ug/L	06/15/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	2.0	ug/L	06/15/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	2.4	ug/L	06/15/12		DD	SW 8270
3-Nitroaniline	ND	11	ug/L	06/15/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5.4	ug/L	06/15/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	1.5	ug/L	06/15/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	1.8	ug/L	06/15/12		DD	SW 8270
4-Chloroaniline	ND	2.3	ug/L	06/15/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1.7	ug/L	06/15/12		DD	SW 8270
4-Nitroaniline	ND	1.7	ug/L	06/15/12		DD	SW 8270
4-Nitrophenol	ND	2.3	ug/L	06/15/12		DD	SW 8270
Acenaphthene	ND	1.5	ug/L	06/15/12		DD	SW 8270
Acetophenone	ND	1.6	ug/L	06/15/12		DD	SW 8270
Anthracene	ND	1.6	ug/L	06/15/12		DD	SW 8270
Benzaldehyde	ND	1.5	ug/L	06/15/12		DD	SW 8270
Benzo(ghi)perylene	ND	1.6	ug/L	06/15/12		DD	SW 8270
Benzyl butyl phthalate	ND	1.3	ug/L	06/15/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	1.4	ug/L	06/15/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	1.4	ug/L	06/15/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	1.4	ug/L	06/15/12		DD	SW 8270

Client ID: FIELD BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Caprolactam	ND	8.9	ug/L	06/15/12		DD	SW 8270
Carbazole	ND	3.8	ug/L	06/15/12		DD	SW 8270
Dibenzofuran	ND	1.5	ug/L	06/15/12		DD	SW 8270
Diethyl phthalate	ND	1.6	ug/L	06/15/12		DD	SW 8270
Dimethylphthalate	ND	1.6	ug/L	06/15/12		DD	SW 8270
Di-n-butylphthalate	ND	1.3	ug/L	06/15/12		DD	SW 8270
Di-n-octylphthalate	ND	1.3	ug/L	06/15/12		DD	SW 8270
Fluoranthene	ND	1.6	ug/L	06/15/12		DD	SW 8270
Fluorene	ND	1.7	ug/L	06/15/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	1.5	ug/L	06/15/12		DD	SW 8270
Isophorone	ND	1.4	ug/L	06/15/12		DD	SW 8270
Naphthalene	ND	1.4	ug/L	06/15/12		DD	SW 8270
Nitrobenzene	ND	1.8	ug/L	06/15/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	1.6	ug/L	06/15/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	1.9	ug/L	06/15/12		DD	SW 8270
Phenol	ND	1.6	ug/L	06/15/12		DD	SW 8270
Pyrene	ND	1.7	ug/L	06/15/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	102		%	06/15/12		DD	19 - 122 %
% 2-Fluorobiphenyl	64		%	06/15/12		DD	30 - 115 %
% 2-Fluorophenol	67		%	06/15/12		DD	25 - 121 %
% Nitrobenzene-d5	66		%	06/15/12		DD	23 - 120 %
% Phenol-d5	66		%	06/15/12		DD	24 - 113 %
% Terphenyl-d14	94		%	06/15/12		DD	18 - 137 %
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	0.90	ug/L	06/15/12		DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	2.0	ug/L	06/15/12		DD	SW 8270
Acenaphthylene	ND	0.30	ug/L	06/15/12		DD	SW 8270
Atrazine	ND	3.0	ug/L	06/15/12		DD	SW 8270
Benz(a)anthracene	0.03	0.020	ug/L	06/15/12		DD	SW 8270
Benzo(a)pyrene	ND	0.020	ug/L	06/15/12		DD	SW 8270
Benzo(b)fluoranthene	ND	0.020	ug/L	06/15/12		DD	SW 8270
Benzo(k)fluoranthene	ND	0.020	ug/L	06/15/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/L	06/15/12		DD	SW 8270
Chrysene	0.02	0.020	ug/L	06/15/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	0.020	ug/L	06/15/12		DD	SW 8270
Hexachlorobenzene	ND	0.020	ug/L	06/15/12		DD	SW 8270
Hexachlorobutadiene	ND	0.50	ug/L	06/15/12		DD	SW 8270
Hexachloroethane	ND	3.0	ug/L	06/15/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	06/15/12		DD	SW 8270
N-Nitrosodimethylamine	ND	0.80	ug/L	06/15/12		DD	SW 8270
Pentachlorophenol	ND	0.30	ug/L	06/15/12		DD	SW 8270
Phenanthrene	ND	0.077	ug/L	06/15/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	102		%	06/15/12		DD	19 - 122 %
% 2-Fluorobiphenyl	64		%	06/15/12		DD	30 - 115 %
% 2-Fluorophenol	67		%	06/15/12		DD	25 - 121 %
% Nitrobenzene-d5	66		%	06/15/12		DD	23 - 120 %
% Phenol-d5	66		%	06/15/12		DD	24 - 113 %
% Terphenyl-d14	94		%	06/15/12		DD	18 - 137 %

1P

Project ID: 145 WEST ST.

Phoenix I.D.: BB97050

Client ID: FIELD BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference

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

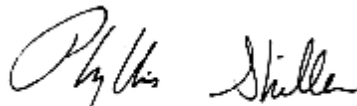
1P = This parameter is pending certification by NY NELAC for this matrix.

Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
06/11/12 0:00
06/12/12 18:32

Laboratory Data

SDG ID: GBB97039
Phoenix ID: BB97051

Project ID: 145 WEST ST.

Client ID: TRIP BLANK LOW

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%				E160.3
Volatile Library Search Top 10	Completed			06/14/12		H/J	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/13/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/13/12		H/J	70 - 121 %
% Bromofluorobenzene	100		%	06/13/12		H/J	59 - 113 %
% Toluene-d8	104		%	06/13/12		H/J	84 - 138 %
<u>Volatiles</u>							
1,1,1-Trichloroethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260
2-Hexanone	ND	25	ug/Kg	06/13/12		H/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	06/13/12		H/J	SW8260
Acetone	5.6 JS	50	ug/Kg	06/13/12		H/J	SW8260
Benzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference	
Bromochloromethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Bromodichloromethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Bromoform	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Bromomethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Carbon Disulfide	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Carbon tetrachloride	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Chlorobenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Chloroethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Chloroform	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Chloromethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Cyclohexane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	1P
Dibromochloromethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Dichlorodifluoromethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Ethylbenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Isopropylbenzene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
m&p-Xylene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Methyl ethyl ketone	ND	30	ug/Kg	06/13/12		H/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	06/13/12		H/J	SW8260	
Methylacetate	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	1P
Methylcyclohexane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	1P
Methylene chloride	2.2 JS	5.0	ug/Kg	06/13/12		H/J	SW8260	
o-Xylene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Styrene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Tetrachloroethene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Toluene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Total Xylenes	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Trichloroethene	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Trichlorofluoromethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
Vinyl chloride	ND	5.0	ug/Kg	06/13/12		H/J	SW8260	
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	97		%	06/13/12		H/J	70 - 121 %	
% Bromofluorobenzene	95		%	06/13/12		H/J	59 - 113 %	
% Dibromofluoromethane	92		%	06/13/12		H/J	70 - 130 %	
% Toluene-d8	101		%	06/13/12		H/J	84 - 138 %	

Project ID: 145 WEST ST.
Client ID: TRIP BLANK LOW

Phoenix I.D.: BB97051

Parameter	Result	RL	Units	Date	Time	By	Reference

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

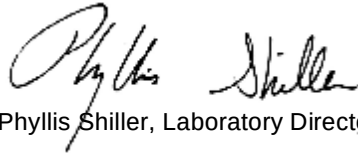
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Monday, June 25, 2012

**Attn: Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747**

**Project ID: 145 WEST ST.
Sample ID#s: BB92322**

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller", is written over a light blue horizontal line.

**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



SDG Comments

June 25, 2012

SDG I.D.: GBB92322

BB92322 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.



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



Analysis Report

June 25, 2012

FOR: Attn: Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
05/30/12 0:00
05/31/12 17:00

Laboratory Data

SDG ID: GBB92322
Phoenix ID: BB92322

Project ID: 145 WEST ST.

Client ID: WS-WC-1

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	06/01/12		LK	SW6010
Aluminum	6960	43	mg/Kg	06/01/12		LK	SW6010
Arsenic	9.01	0.86	mg/Kg	06/01/12		LK	SW6010
Barium	1240	0.86	mg/Kg	06/01/12		LK	SW6010
Beryllium	0.309 B	0.34	mg/Kg	06/01/12		LK	SW6010
Calcium	12600	4.3	mg/Kg	06/01/12		LK	SW6010
Cadmium	0.246 B	0.43	mg/Kg	06/01/12		LK	SW6010
Cobalt	7.66	0.43	mg/Kg	06/01/12		LK	SW6010
Chromium	14.2	0.43	mg/Kg	06/01/12		LK	SW6010
Copper	158	4.3	mg/kg	06/01/12		LK	SW6010 B
Iron	18400	43	mg/Kg	06/01/12		LK	SW6010
Mercury	4.82	0.08	mg/Kg	06/01/12		RS	SW-7471
Potassium	966 N	86	mg/Kg	06/01/12		LK	SW6010
Magnesium	3650 N	4.3	mg/Kg	06/01/12		LK	SW6010
Manganese	206	4.3	mg/Kg	06/01/12		LK	SW6010
Sodium	622	9	mg/Kg	06/01/12		LK	SW6010
Nickel	13.0	0.43	mg/Kg	06/01/12		LK	SW6010
Lead	1520	8.6	mg/Kg	06/01/12		LK	SW6010 B
Antimony	3.0	2.1	mg/Kg	06/01/12		LK	SW6010
Selenium	< 1.7 N	1.7	mg/Kg	06/01/12		LK	SW6010
TCLP Silver	0.0037 B	0.10	mg/L	06/01/12		EK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/01/12		EK	SW6010
TCLP Barium	0.68	0.10	mg/L	06/01/12		EK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/01/12		EK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/01/12		EK	SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/01/12		RS	SW7470
TCLP Lead	0.12	0.10	mg/L	06/01/12		EK	SW6010 B*
TCLP Selenium	< 0.10	0.10	mg/L	06/01/12		EK	SW6010

Parameter	Result	RL	Units	Date	Time	By	Reference
Thallium	< 1.7	1.7	mg/Kg	06/01/12		LK	SW6010
Total Metals Digest	Completed			05/31/12		AG	SW846 - 3050
TCLP Metals Digestion	Completed			06/01/12		X/X	SW3005
Vanadium	34.2	0.43	mg/Kg	06/01/12		LK	SW6010
Zinc	328	8.6	mg/Kg	06/01/12		LK	SW6010
Percent Solid	82		%	05/31/12		JL	E160.3
Soil Extraction for PCB	Completed			05/31/12		BB/F	SW3545
Soil Extraction for Pesticide	Completed			05/31/12		BB	SW3545
Soil Extraction for SVOA	Completed			05/31/12		BS/F	SW3545
Mercury Digestion	Completed			06/01/12		X/X	SW7471
Extraction of NJ QAM-025	Completed			05/31/12		SS/E	3545
Soil Extraction for Herbicide	Completed			05/31/12		M/D	SW8151
TCLP Digestion Mercury	Completed			06/01/12		X/X	E1311/7470
TCLP Extraction for Metals	Completed			05/31/12		X	EPA 1311

Polychlorinated Biphenyls

PCB-1016	ND	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1221	ND	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1232	ND	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1242	ND	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1248	*	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1254	*	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1260	ND	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1262	ND	100	ug/Kg	06/09/12		MH	SW 8082
PCB-1268	ND	100	ug/Kg	06/09/12		MH	SW 8082
Total PCBs	380	100	ug/Kg	06/09/12		MH	SW 8082

QA/QC Surrogates

% DCBP	108		%	06/09/12		MH	30 - 150 %
% TCMX	90		%	06/09/12		MH	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	7.2	ug/Kg	06/06/12		KCA	SW8081
4,4' -DDE	ND	7.2	ug/Kg	06/06/12		KCA	SW8081
4,4' -DDT	ND	7.2	ug/Kg	06/06/12		KCA	SW8081
a-BHC	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
a-Chlordane	ND	10	ug/Kg	06/06/12		KCA	SW8081
Aldrin	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
b-BHC	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
Chlordane	ND	60	ug/Kg	06/06/12		KCA	SW8081
d-BHC	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
Dieldrin	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
Endosulfan I	ND	10	ug/Kg	06/06/12		KCA	SW8081
Endosulfan II	ND	10	ug/Kg	06/06/12		KCA	SW8081
Endosulfan sulfate	ND	10	ug/Kg	06/06/12		KCA	SW8081
Endrin	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
Endrin aldehyde	ND	10	ug/Kg	06/06/12		KCA	SW8081
Endrin ketone	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
g-BHC	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
g-Chlordane	ND	10	ug/Kg	06/06/12		KCA	SW8081
Heptachlor	ND	5.0	ug/Kg	06/06/12		KCA	SW8081
Heptachlor epoxide	ND	5.0	ug/Kg	06/06/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Methoxychlor	ND	20	ug/Kg	06/06/12		KCA	SW8081
Toxaphene	ND	96	ug/Kg	06/06/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	117		%	06/06/12		KCA	SW8081
% TCMX	92		%	06/06/12		KCA	SW8081
<u>TPH by GC (QAM-025)</u>							
Total Petroleum Hydrocarbon	740	90	mg/Kg	06/04/12		JRB	QAM-025 1
<u>QA/QC Surrogates</u>							
% Chlorobenzene (surrogate)	70		%	06/04/12		JRB	50 - 150 %
% Pentacosane (surrogate)	66		%	06/04/12		JRB	50 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/01/12		R/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/01/12		R/J	SW8260
Acetone	31 JS	61	ug/Kg	06/01/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/01/12		R/J	SW8260
Benzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Bromoform	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Bromomethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260 B
Chloroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Chloroform	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Chloromethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Dibromochloromethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Isopropylbenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	06/01/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/01/12		R/J	SW8260
Methylene chloride	10 S	6.1	ug/Kg	06/01/12		R/J	SW8260
Naphthalene	7.0	6.1	ug/Kg	06/01/12		R/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
o-Xylene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
sec-Butylbenzene	2.9 J	6.1	ug/Kg	06/01/12		R/J	SW8260
Styrene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/01/12		R/J	SW8260
Toluene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/01/12		R/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	06/01/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	105		%	06/01/12		R/J	70 - 130 %
% Bromofluorobenzene	95		%	06/01/12		R/J	70 - 130 %
% Dibromofluoromethane	94		%	06/01/12		R/J	70 - 130 %
% Toluene-d8	104		%	06/01/12		R/J	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
2,4-Dinitrophenol	ND	450	ug/Kg	06/04/12		DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/04/12		DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/04/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
2-Chloronaphthalene	ND	280	ug/Kg	06/04/12		DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
2-Methylnaphthalene	940	280	ug/Kg	06/04/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/04/12		DD	SW 8270
2-Nitroaniline	ND	450	ug/Kg	06/04/12		DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	06/04/12		DD	SW 8270 1
3,3'-Dichlorobenzidine	ND	560	ug/Kg	06/04/12		DD	SW 8270
3-Nitroaniline	ND	450	ug/Kg	06/04/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/04/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
4-Chloroaniline	ND	560	ug/Kg	06/04/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/04/12		DD	SW 8270
4-Nitroaniline	ND	450	ug/Kg	06/04/12		DD	SW 8270
4-Nitrophenol	ND	820	ug/Kg	06/04/12		DD	SW 8270
Acenaphthene	540	280	ug/Kg	06/04/12		DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	06/04/12		DD	SW 8270
Acetophenone	ND	280	ug/Kg	06/04/12		DD	SW 8270
Aniline	ND	820	ug/Kg	06/04/12		DD	SW 8270 LO
Anthracene	550	280	ug/Kg	06/04/12		DD	SW 8270
Azobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270 1
Benz(a)anthracene	1100	280	ug/Kg	06/04/12		DD	SW 8270
Benzidine	ND	280	ug/Kg	06/04/12		DD	SW 8270
Benzo(a)pyrene	910	280	ug/Kg	06/04/12		DD	SW 8270
Benzo(b)fluoranthene	1300	280	ug/Kg	06/04/12		DD	SW 8270
Benzo(ghi)perylene	400	280	ug/Kg	06/04/12		DD	SW 8270
Benzo(k)fluoranthene	390	280	ug/Kg	06/04/12		DD	SW 8270
Benzoic acid	ND	820	ug/Kg	06/04/12		DD	SW 8270 LO
Benzyl butyl phthalate	ND	280	ug/Kg	06/04/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/04/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	280	ug/Kg	06/04/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/04/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/04/12		DD	SW 8270
Carbazole	ND	820	ug/Kg	06/04/12		DD	SW 8270
Chrysene	1100	280	ug/Kg	06/04/12		DD	SW 8270
Dibenz(a,h)anthracene	130 J	280	ug/Kg	06/04/12		DD	SW 8270
Dibenzofuran	220 J	280	ug/Kg	06/04/12		DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	06/04/12		DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	06/04/12		DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	06/04/12		DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	06/04/12		DD	SW 8270
Fluoranthene	2200	280	ug/Kg	06/04/12		DD	SW 8270
Fluorene	630	280	ug/Kg	06/04/12		DD	SW 8270
Hexachlorobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	06/04/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/04/12		DD	SW 8270
Hexachloroethane	ND	280	ug/Kg	06/04/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	370	280	ug/Kg	06/04/12		DD	SW 8270
Isophorone	ND	280	ug/Kg	06/04/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Naphthalene	570	280	ug/Kg	06/04/12		DD	SW 8270
Nitrobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
N-Nitrosodimethylamine	ND	280	ug/Kg	06/04/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/04/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	820	ug/Kg	06/04/12		DD	SW 8270
Pentachloronitrobenzene	ND	280	ug/Kg	06/04/12		DD	SW 8270
Pentachlorophenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
Phenanthrene	3000	280	ug/Kg	06/04/12		DD	SW 8270
Phenol	ND	280	ug/Kg	06/04/12		DD	SW 8270
Pyrene	2100	280	ug/Kg	06/04/12		DD	SW 8270
Pyridine	ND	280	ug/Kg	06/04/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	82		%	06/04/12		DD	15 - 130 %
% 2-Fluorobiphenyl	75		%	06/04/12		DD	30 - 130 %
% 2-Fluorophenol	83		%	06/04/12		DD	15 - 130 %
% Nitrobenzene-d5	84		%	06/04/12		DD	30 - 130 %
% Phenol-d5	81		%	06/04/12		DD	15 - 130 %
% Terphenyl-d14	75		%	06/04/12		DD	30 - 130 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B* = Present in blank, a bias is possible.

B = Present in blank, no bias suspected.

Comments:

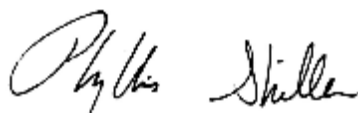
* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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QA/QC Report

June 25, 2012

QA/QC Data

SDG I.D.: GBB92322

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 201810, QC Sample No: BB91818 (BB92322)												
Mercury - Water	BDL	0.0004	0.0002	NC	93.9	89.8	4.5	90.9	86.1	5.4	70 - 130	20
QA/QC Batch 201812, QC Sample No: BB91851 (BB92322)												
Mercury - Soil	BDL	0.19	0.13	NC	102	95.3	6.8	95.6	113	16.7	70 - 130	30
QA/QC Batch 201792, QC Sample No: BB92289 (BB92322)												
<u>ICP Metals - Soil</u>												
Aluminum	BDL	4090	4910	18.2	95.9	97.2	1.3	NC	NC	NC	75 - 125	30
Antimony	BDL	<0.76	<3.8	NC	114	110	3.6	84.4	87.4	3.5	75 - 125	30
Arsenic	BDL	3.24	4.19	25.6	80.6	80.1	0.6	85.0	88.3	3.8	75 - 125	30
Barium	BDL	10.4	13.3	24.5	96.9	95.9	1.0	106	108	1.9	75 - 125	30
Beryllium	BDL	<0.38	<0.31	NC	95.4	93.7	1.8	96.0	99.3	3.4	75 - 125	30
Cadmium	BDL	<0.38	<0.38	NC	90.4	84.8	6.4	89.9	92.9	3.3	75 - 125	30
Calcium	BDL	794	907	13.3	99.9	98.5	1.4	NC	NC	NC	75 - 125	30
Chromium	BDL	18.3	24.0	27.0	92.4	89.6	3.1	96.1	100	4.0	75 - 125	30
Cobalt	BDL	0.39	<0.38	NC	88.9	84.1	5.5	93.0	96.8	4.0	75 - 125	30
Copper	0.35	5.25	6.34	18.8	95.5	91.2	4.6	101	108	6.7	75 - 125	30
Iron	BDL	8900	8120	9.20	95.0	95.6	0.6	NC	NC	NC	75 - 125	30
Lead	0.34	7.39	7.23	2.20	88.8	84.2	5.3	90.3	93.4	3.4	75 - 125	30
Magnesium	BDL	190	233	20.3	98.0	95.6	2.5	>130	>130	NC	75 - 125	30 m
Manganese	BDL	12.5	11.2	11.0	103	98.4	4.6	98.1	99.0	0.9	75 - 125	30
Nickel	BDL	1.21	1.25	NC	89.8	83.7	7.0	90.8	94.4	3.9	75 - 125	30
Potassium	BDL	523	622	17.3	105	107	1.9	>130	>130	NC	75 - 125	30 m
Selenium	BDL	1.99	<1.5	NC	80.6	81.2	0.7	73.7	75.9	2.9	75 - 125	30 m
Silver	BDL	<0.38	<0.38	NC	86.5	87.0	0.6	94.8	97.7	3.0	75 - 125	30
Sodium	BDL	110	136	21.1	112	113	0.9	118	119	0.8	75 - 125	30
Thallium	BDL	<0.30	<3.4	NC	88.8	87.1	1.9	91.1	94.7	3.9	75 - 125	30
Vanadium	BDL	14.0	13.2	5.90	96.8	92.1	5.0	99.1	103	3.9	75 - 125	30
Zinc	BDL	11.2	8.77	24.3	90.1	86.1	4.5	92.9	95.0	2.2	75 - 125	30
QA/QC Batch 201855, QC Sample No: BB92322 (BB92322)												
<u>ICP Metals - TCLP Extraction</u>												
Arsenic	BDL	<0.10	<0.10	NC	102	104	1.9	100	102	2.0	75 - 125	20
Barium	BDL	0.68	0.63	7.60	98.2	98.5	0.3	102	102	0.0	75 - 125	20
Cadmium	BDL	<0.050	<0.050	NC	93.7	93.4	0.3	98.8	101	2.2	75 - 125	20
Chromium	BDL	<0.10	<0.10	NC	92.1	92.0	0.1	96.4	98.3	2.0	75 - 125	20
Lead	BDL	0.12	0.10	18.2	89.7	90.5	0.9	96.8	98.1	1.3	75 - 125	20
Selenium	BDL	<0.10	<0.10	NC	107	109	1.9	107	109	1.9	75 - 125	20
Silver	BDL	0.0037	<0.10	NC	99.8	101	1.2	99.9	101	1.1	75 - 125	20

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



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QA/QC Report

June 25, 2012

QA/QC Data

SDG I.D.: GBB92322

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 201791, QC Sample No: BB92322 (BB92322)										
<u>Pesticides - Soil</u>										
4,4' -DDD	ND	79	84	6.1	110	>130	NC	40 - 140	30	m
4,4' -DDE	ND	98	94	4.2	106	125	16.5	40 - 140	30	
4,4' -DDT	ND	78	79	1.3	105	125	17.4	40 - 140	30	
a-BHC	ND	108	104	3.8	107	114	6.3	40 - 140	30	
a-Chlordane	ND	93	90	3.3	108	120	10.5	40 - 140	30	
Aldrin	ND	110	106	3.7	109	116	6.2	40 - 140	30	
b-BHC	ND	98	97	1.0	106	118	10.7	40 - 140	30	
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
d-BHC	ND	94	92	2.2	111	123	10.3	40 - 140	30	
Dieldrin	ND	119	98	19.4	107	121	12.3	40 - 140	30	
Endosulfan I	ND	118	109	7.9	110	120	8.7	40 - 140	30	
Endosulfan II	ND	86	84	2.4	108	125	14.6	40 - 140	30	
Endosulfan sulfate	ND	79	71	10.7	104	126	19.1	40 - 140	30	
Endrin	ND	90	89	1.1	103	120	15.2	40 - 140	30	
Endrin aldehyde	ND	85	77	9.9	102	>130	NC	40 - 140	30	m
Endrin ketone	ND	87	80	8.4	101	>130	NC	40 - 140	30	m
g-BHC	ND	105	102	2.9	108	118	8.8	40 - 140	30	
g-Chlordane	ND	87	84	3.5	109	122	11.3	40 - 140	30	
Heptachlor	ND	109	106	2.8	108	116	7.1	40 - 140	30	
Heptachlor epoxide	ND	98	94	4.2	112	120	6.9	40 - 140	30	
Methoxychlor	ND	72	80	10.5	97	116	17.8	40 - 140	30	
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
% DCBP	87	85	82	3.6	97	126	26.0	30 - 150	30	
% TCMX	127	118	116	1.7	118	126	6.6	30 - 150	30	

QA/QC Batch 201771, QC Sample No: BB92322 (BB92322)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	83	79	4.9	104	114	9.2	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	90	77	15.6	125	136	8.4	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	84	75	61	20.6	82	93	12.6	30 - 150	30	
% TCMX (Surrogate Rec)	96	76	71	6.8	66	77	15.4	30 - 150	30	

QA/QC Batch 201796, QC Sample No: BB92322 (BB92322)

TPH by GC (QAM025) - Soil

Total Petroleum Hydrocarbon	ND	74	85	13.8	87	127	37.4			

QA/QC Data

SDG I.D.: GBB92322

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Chlorobenzene (surrogate)	66	77	87	12.2	86	102	17.0		
% Pentacosane (surrogate)	68	56	68	19.4	61	100	48.4		

QA/QC Batch 201958, QC Sample No: BB92322 (BB92322)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	106	102	3.8	106	105	0.9	70 - 130	30	
1,1,1-Trichloroethane	ND	96	96	0.0	98	98	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	91	90	1.1	99	97	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	100	101	1.0	98	96	2.1	70 - 130	30	
1,1-Dichloroethane	ND	93	109	15.8	96	97	1.0	70 - 130	30	
1,1-Dichloroethene	ND	93	92	1.1	101	101	0.0	70 - 130	30	
1,1-Dichloropropene	ND	91	89	2.2	100	99	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	82	88	7.1	96	112	15.4	70 - 130	30	
1,2,3-Trichloropropane	ND	113	108	4.5	106	87	19.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	73	76	4.0	96	110	13.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	91	86	5.6	103	104	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	112	119	6.1	99	105	5.9	70 - 130	30	
1,2-Dibromoethane	ND	97	99	2.0	97	95	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	89	87	2.3	101	103	2.0	70 - 130	30	
1,2-Dichloroethane	ND	95	97	2.1	97	95	2.1	70 - 130	30	
1,2-Dichloropropane	ND	96	96	0.0	98	98	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	94	89	5.5	104	104	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	86	84	2.4	104	104	0.0	70 - 130	30	
1,3-Dichloropropane	ND	99	99	0.0	100	99	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	83	81	2.4	102	103	1.0	70 - 130	30	
2,2-Dichloropropane	ND	89	89	0.0	94	94	0.0	70 - 130	30	
2-Chlorotoluene	ND	92	88	4.4	103	103	0.0	70 - 130	30	
2-Hexanone	ND	91	90	1.1	53	51	3.8	70 - 130	30	m
2-Isopropyltoluene	ND	97	94	3.1	105	107	1.9	70 - 130	30	
4-Chlorotoluene	ND	85	81	4.8	103	103	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	96	99	3.1	85	83	2.4	70 - 130	30	
Acetone	ND	81	84	3.6	<40	<40	NC	70 - 130	30	m
Acrylonitrile	ND	101	112	10.3	95	93	2.1	70 - 130	30	
Benzene	ND	95	95	0.0	99	99	0.0	70 - 130	30	
Bromobenzene	ND	97	93	4.2	103	102	1.0	70 - 130	30	
Bromochloromethane	ND	91	90	1.1	94	95	1.1	70 - 130	30	
Bromodichloromethane	ND	98	98	0.0	100	99	1.0	70 - 130	30	
Bromoform	ND	117	119	1.7	109	107	1.9	70 - 130	30	
Bromomethane	ND	84	86	2.4	57	67	16.1	70 - 130	30	m
Carbon Disulfide	ND	97	95	2.1	102	101	1.0	70 - 130	30	
Carbon tetrachloride	ND	100	95	5.1	101	99	2.0	70 - 130	30	
Chlorobenzene	ND	91	90	1.1	103	103	0.0	70 - 130	30	
Chloroethane	ND	95	91	4.3	<40	<40	NC	70 - 130	30	m
Chloroform	ND	93	94	1.1	95	96	1.0	70 - 130	30	
Chloromethane	ND	84	84	0.0	92	95	3.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	90	93	3.3	94	98	4.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	90	91	1.1	97	97	0.0	70 - 130	30	
Dibromochloromethane	ND	107	105	1.9	104	102	1.9	70 - 130	30	
Dibromomethane	ND	97	99	2.0	97	97	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	81	79	2.5	92	96	4.3	70 - 130	30	
Ethylbenzene	ND	96	92	4.3	107	106	0.9	70 - 130	30	
Hexachlorobutadiene	ND	85	88	3.5	102	116	12.8	70 - 130	30	
Isopropylbenzene	ND	96	92	4.3	104	103	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBB92322

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
m&p-Xylene	ND	92	90	2.2	107	108	0.9	70 - 130	30	
Methyl ethyl ketone	ND	83	85	2.4	44	44	0.0	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	92	118	24.8	87	107	20.6	70 - 130	30	
Methylene chloride	ND	88	92	4.4	81	82	1.2	70 - 130	30	
Naphthalene	ND	91	114	22.4	89	115	25.5	70 - 130	30	
n-Butylbenzene	ND	84	82	2.4	104	107	2.8	70 - 130	30	
n-Propylbenzene	ND	89	85	4.6	106	106	0.0	70 - 130	30	
o-Xylene	ND	96	94	2.1	106	106	0.0	70 - 130	30	
p-Isopropyltoluene	ND	94	90	4.3	107	108	0.9	70 - 130	30	
sec-Butylbenzene	ND	92	88	4.4	101	102	1.0	70 - 130	30	
Styrene	ND	93	94	1.1	106	107	0.9	70 - 130	30	
tert-Butylbenzene	ND	96	93	3.2	105	106	0.9	70 - 130	30	
Tetrachloroethene	ND	94	89	5.5	105	106	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	101	104	2.9	88	87	1.1	70 - 130	30	
Toluene	ND	93	92	1.1	101	101	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	80	102	24.2	88	110	22.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	93	96	3.2	97	97	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	100	106	5.8	95	97	2.1	70 - 130	30	
Trichloroethene	ND	101	99	2.0	98	99	1.0	70 - 130	30	
Trichlorofluoromethane	ND	103	99	4.0	NC	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	103	100	3.0	105	102	2.9	70 - 130	30	
Vinyl chloride	ND	87	89	2.3	88	89	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	102	101	1.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	100	100	100	0.0	103	100	3.0	70 - 130	30	
% Dibromofluoromethane	97	99	99	0.0	93	95	2.1	70 - 130	30	
% Toluene-d8	105	99	100	1.0	100	100	0.0	70 - 130	30	

QA/QC Batch 201790, QC Sample No: BB92322 (BB92322)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	65	72	10.2	78	75	3.9	30 - 130	30	
1,2,4-Trichlorobenzene	ND	60	68	12.5	74	70	5.6	30 - 130	30	
1,2-Dichlorobenzene	ND	61	67	9.4	73	71	2.8	30 - 130	30	
1,3-Dichlorobenzene	ND	58	66	12.9	71	68	4.3	30 - 130	30	
1,4-Dichlorobenzene	ND	58	66	12.9	72	68	5.7	30 - 130	30	
2,4,5-Trichlorophenol	ND	67	76	12.6	86	78	9.8	30 - 130	30	
2,4,6-Trichlorophenol	ND	67	73	8.6	82	74	10.3	30 - 130	30	
2,4-Dichlorophenol	ND	68	72	5.7	86	83	3.6	30 - 130	30	
2,4-Dimethylphenol	ND	48	56	15.4	69	66	4.4	30 - 130	30	
2,4-Dinitrophenol	ND	25	<5	NC	2.9	2.7	7.1	30 - 130	30	I,m
2,4-Dinitrotoluene	ND	67	78	15.2	85	80	6.1	30 - 130	30	
2,6-Dinitrotoluene	ND	68	78	13.7	81	75	7.7	30 - 130	30	
2-Chloronaphthalene	ND	64	75	15.8	80	75	6.5	30 - 130	30	
2-Chlorophenol	ND	65	70	7.4	77	74	4.0	30 - 130	30	
2-Methylnaphthalene	ND	67	77	13.9	77	73	5.3	30 - 130	30	
2-Methylphenol (o-cresol)	ND	62	72	14.9	80	79	1.3	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	143	NC	30 - 130	30	I,m
2-Nitrophenol	ND	65	68	4.5	109	105	3.7	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	66	72	8.7	80	81	1.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	135	148	9.2	144	>150	NC	30 - 130	30	I,m
3-Nitroaniline	ND	108	130	18.5	109	114	4.5	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	56	29	63.5	74	56	27.7	30 - 130	30	I,r
4-Bromophenyl phenyl ether	ND	64	73	13.1	81	77	5.1	30 - 130	30	
4-Chloro-3-methylphenol	ND	69	81	16.0	88	82	7.1	30 - 130	30	

QA/QC Data

SDG I.D.: GBB92322

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chloroaniline	ND	84	86	2.4	67	72	7.2	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	66	78	16.7	80	76	5.1	30 - 130	30	
4-Nitroaniline	ND	72	85	16.6	94	84	11.2	30 - 130	30	
4-Nitrophenol	ND	71	81	13.2	112	106	5.5	30 - 130	30	
Acenaphthene	ND	67	77	13.9	77	87	12.2	30 - 130	30	
Acenaphthylene	ND	64	74	14.5	82	78	5.0	30 - 130	30	
Acetophenone	ND	66	72	8.7	79	76	3.9	30 - 130	30	
Aniline	ND	101	106	4.8	60	77	24.8	30 - 130	30	
Anthracene	ND	66	75	12.8	79	93	16.3	30 - 130	30	
Azobenzene	ND	67	79	16.4	84	80	4.9	30 - 130	30	
Benz(a)anthracene	ND	65	74	12.9	71	87	20.3	30 - 130	30	
Benzidine	ND	28	36	25.0	17	23	30.0	30 - 130	30	I,m
Benzo(a)pyrene	ND	62	70	12.1	65	78	18.2	30 - 130	30	
Benzo(b)fluoranthene	ND	64	78	19.7	70	77	9.5	30 - 130	30	
Benzo(ghi)perylene	ND	66	79	17.9	76	72	5.4	30 - 130	30	
Benzo(k)fluoranthene	ND	68	69	1.5	66	72	8.7	30 - 130	30	
Benzyl butyl phthalate	ND	66	74	11.4	85	83	2.4	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	67	76	12.6	85	80	6.1	30 - 130	30	
Bis(2-chloroethyl)ether	ND	90	95	5.4	53	68	24.8	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	66	75	12.8	80	80	0.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	64	74	14.5	85	82	3.6	30 - 130	30	
Carbazole	ND	90	104	14.4	121	123	1.6	30 - 130	30	
Chrysene	ND	65	74	12.9	69	81	16.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	67	82	20.1	83	79	4.9	30 - 130	30	
Dibenzofuran	ND	66	76	14.1	85	87	2.3	30 - 130	30	
Diethyl phthalate	ND	72	87	18.9	84	80	4.9	30 - 130	30	
Dimethylphthalate	ND	69	80	14.8	83	80	3.7	30 - 130	30	
Di-n-butylphthalate	ND	62	72	14.9	84	77	8.7	30 - 130	30	
Di-n-octylphthalate	ND	65	75	14.3	81	78	3.8	30 - 130	30	
Fluoranthene	ND	61	71	15.2	56	96	52.6	30 - 130	30	r
Fluorene	ND	68	79	15.0	81	85	4.8	30 - 130	30	
Hexachlorobenzene	ND	63	71	11.9	87	77	12.2	30 - 130	30	
Hexachlorobutadiene	ND	63	67	6.2	77	73	5.3	30 - 130	30	
Hexachlorocyclopentadiene	ND	56	65	14.9	15	6.0	85.7	30 - 130	30	m,r
Hexachloroethane	ND	63	71	11.9	73	69	5.6	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	66	81	20.4	76	74	2.7	30 - 130	30	
Isophorone	ND	67	77	13.9	81	77	5.1	30 - 130	30	
Naphthalene	ND	63	72	13.3	75	73	2.7	30 - 130	30	
Nitrobenzene	ND	66	72	8.7	77	78	1.3	30 - 130	30	
N-Nitrosodimethylamine	ND	59	66	11.2	72	69	4.3	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	68	76	11.1	81	80	1.2	30 - 130	30	
N-Nitrosodiphenylamine	ND	76	92	19.0	113	116	2.6	30 - 130	30	
Pentachloronitrobenzene	ND	144	>150	NC	>150	150	NC	30 - 130	30	I,m
Pentachlorophenol	ND	48	43	11.0	95	70	30.3	30 - 130	30	
Phenanthrene	ND	65	74	12.9	55	NC	NC	30 - 130	30	
Phenol	ND	68	72	5.7	82	79	3.7	30 - 130	30	
Pyrene	ND	64	71	10.4	59	91	42.7	30 - 130	30	r
Pyridine	ND	53	63	17.2	66	59	11.2	30 - 130	30	
% 2,4,6-Tribromophenol	78	70	73	4.2	88	75	16.0	15 - 130	30	
% 2-Fluorobiphenyl	70	60	71	16.8	75	72	4.1	30 - 130	30	
% 2-Fluorophenol	76	64	68	6.1	77	77	0.0	15 - 130	30	
% Nitrobenzene-d5	76	65	71	8.8	78	77	1.3	30 - 130	30	
% Phenol-d5	72	64	71	10.4	78	76	2.6	15 - 130	30	

QA/QC Data

SDG I.D.: GBB92322

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	73	64	71	10.4	77	71	8.1	30 - 130	30

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

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

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

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

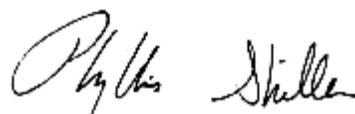
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

June 25, 2012

Sample Criteria Exceedences Report

Requested Criteria: 375NR, 375RS

GBB92322

SampNo	LocCode	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BB92322	GALLI-ENG	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1100	280	1000	1000	ug/Kg
BB92322	GALLI-ENG	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1100	280	1000	1000	ug/Kg
BB92322	GALLI-ENG	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1300	280	1000	1000	ug/Kg
BB92322	GALLI-ENG	BA-SMDP	Barium	NY / 375-6.8 Metals / Commercial	1240	0.86	400	400	mg/Kg
BB92322	GALLI-ENG	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential	1240	0.86	350	350	mg/Kg
BB92322	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Commercial	4.82	0.08	2.8	2.8	mg/Kg
BB92322	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	4.82	0.08	0.81	0.81	mg/Kg
BB92322	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Commercial	1520	8.6	1000	1000	mg/Kg
BB92322	GALLI-ENG	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	1520	8.6	400	400	mg/Kg

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



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

Environmental Laboratories, Inc.

Client Services (860) 645-8726

Data Delivery:

☐ Fax #:☐ Email:

#1-Brinks @gailery.com

Customer:

Gailery Environmental

Address:

134 West Whitman Rd
Baltimore, MD 11747

Project:

1456475

Report to:

Ken Brooks

Invoice to:

Ken Brooks

Project P.O.:

631-271-9772

Phone #:

Fax #:

Sampler's
Signature

Frank Gehring

Client Sample - Identification - Identification

Date: 5/25/07

Analysis
Request

Matrix Code:

DW=drinking water

GW=groundwater

SL=sludge

A=air

S=soil/solid

Q=oil

X=other

Phoenix
Sample #Customer Sample
IdentificationSample
MatrixDate
SampledTime
Sampled

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

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Time

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Time

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Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Relinquished by:

G. Gehring

Accepted by:

G. Gehring

Date:

5-30-07

Time:

11:00

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
SoilNY375 Residential
SoilNY375 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

Comments, Special Requirements or Regulations:

402 jars = 9mb
502 jars = 11mb
* ALSO rec'd 2 8oz and 14oz jars
labeled WS-WC-2.



Monday, June 25, 2012

**Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747**

**Project ID: 145 WEST ST.
Sample ID#s: BB93979**

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller", is written over a light blue horizontal line.

**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



SDG Comments

June 25, 2012

SDG I.D.: GBB93979

BB93979 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.



Environmental Laboratories, Inc.
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Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

<u>Date</u>	<u>Time</u>
06/01/12	15:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93979
Phoenix ID: BB93979

Project ID: 145 WEST ST.

Client ID: WSWC-2 0-15 FT

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	06/06/12		EK	SW6010
Aluminum	6150	65	mg/Kg	06/06/12		EK	SW6010
Arsenic	6.99	0.87	mg/Kg	06/06/12		EK	SW6010
Barium	558	0.43	mg/Kg	06/06/12		EK	SW6010
Beryllium	0.36	0.35	mg/Kg	06/06/12		EK	SW6010
Calcium	5380	6.5	mg/Kg	06/06/12		EK	SW6010
Cadmium	< 0.43	0.43	mg/Kg	06/06/12		EK	SW6010
Cobalt	7.02	0.43	mg/Kg	06/06/12		EK	SW6010
Chromium	26.7	0.43	mg/Kg	06/06/12		EK	SW6010
Copper	94.1	0.43	mg/kg	06/06/12		EK	SW6010
Iron	21400	65	mg/Kg	06/06/12		EK	SW6010
Mercury	0.45	0.08	mg/Kg	06/08/12		RS	SW-7471
Potassium	998	65	mg/Kg	06/06/12		EK	SW6010
Magnesium	2280	6.5	mg/Kg	06/06/12		EK	SW6010
Manganese	263	4.3	mg/Kg	06/06/12		EK	SW6010
Sodium	296	6.5	mg/Kg	06/06/12		EK	SW6010
Nickel	14.8	0.43	mg/Kg	06/06/12		EK	SW6010
Lead	599	4.3	mg/Kg	06/06/12		EK	SW6010
Antimony	< 4.3	4.3	mg/Kg	06/06/12		EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/06/12		EK	SW6010
TCLP Silver	< 0.10	0.10	mg/L	06/06/12		EK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/06/12		EK	SW6010
TCLP Barium	0.79	0.10	mg/L	06/06/12		EK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/06/12		EK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/06/12		EK	SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/06/12		RS	SW7470
TCLP Lead	1.81	0.10	mg/L	06/06/12		EK	SW6010
TCLP Selenium	< 0.10	0.10	mg/L	06/06/12		EK	SW6010

Parameter	Result	RL	Units	Date	Time	By	Reference
Thallium	< 3.9	3.9	mg/Kg	06/06/12		EK	SW6010
Total Metals Digest	Completed			06/05/12		AG	SW846 - 3050
TCLP Metals Digestion	Completed			06/06/12		X/X	SW3005
Vanadium	23.0	0.43	mg/Kg	06/06/12		EK	SW6010
Zinc	105	0.43	mg/Kg	06/06/12		EK	SW6010
Percent Solid	79		%	06/05/12		JL	E160.3
Soil Extraction for PCB	Completed			06/05/12		JB/F	SW3545
Soil Extraction for Pesticide	Completed			06/05/12		JB	SW3545
Soil Extraction for SVOA	Completed			06/05/12		JB/F	SW3545
Mercury Digestion	Completed			06/08/12		X/D	SW7471
Extraction of NJ QAM-025	Completed			06/05/12		LS/D	3545
Soil Extraction for Herbicide	Completed			06/05/12		M/D	SW8151
TCLP Digestion Mercury	Completed			06/06/12		X/X	E1311/7470
TCLP Extraction for Metals	Completed			06/05/12		X	EPA 1311

Chlorinated Herbicides

2,4,5-T	ND	53	ug/Kg	06/06/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	53	ug/Kg	06/06/12		JRB	SW8151
2,4-D	ND	53	ug/Kg	06/06/12		JRB	SW8151
2,4-DB	ND	530	ug/Kg	06/06/12		JRB	SW8151
Dalapon	ND	53	ug/Kg	06/06/12		JRB	SW8151
Dicamba	ND	100	ug/Kg	06/06/12		JRB	SW8151
Dichloroprop	ND	53	ug/Kg	06/06/12		JRB	SW8151
Dinoseb	ND	100	ug/Kg	06/06/12		JRB	SW8151

QA/QC Surrogates

% DCAA	110		%	06/06/12		JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1221	ND	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1232	ND	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1242	ND	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1248	*	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1254	*	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1260	ND	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1262	ND	210	ug/Kg	06/09/12		MH	SW 8082
PCB-1268	ND	210	ug/Kg	06/09/12		MH	SW 8082
Total PCBs	1400	210	ug/Kg	06/09/12		MH	SW 8082

QA/QC Surrogates

% DCBP	95		%	06/09/12		MH	30 - 150 %
% TCMX	84		%	06/09/12		MH	30 - 150 %

Pesticides

4,4' -DDD	ND	40	ug/Kg	06/11/12		KCA	SW8081
4,4' -DDE	ND	40	ug/Kg	06/11/12		KCA	SW8081
4,4' -DDT	ND	40	ug/Kg	06/11/12		KCA	SW8081
a-BHC	ND	20	ug/Kg	06/11/12		KCA	SW8081
Alachlor	ND	20	ug/Kg	06/11/12		KCA	SW8081
Aldrin	ND	6.3	ug/Kg	06/11/12		KCA	SW8081
b-BHC	ND	20	ug/Kg	06/11/12		KCA	SW8081
Chlordane	ND	63	ug/Kg	06/11/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
d-BHC	ND	20	ug/Kg	06/11/12		KCA	SW8081
Dieldrin	ND	27	ug/Kg	06/11/12		KCA	SW8081
Endosulfan I	ND	20	ug/Kg	06/11/12		KCA	SW8081
Endosulfan II	ND	40	ug/Kg	06/11/12		KCA	SW8081
Endosulfan sulfate	ND	40	ug/Kg	06/11/12		KCA	SW8081
Endrin	ND	40	ug/Kg	06/11/12		KCA	SW8081
Endrin aldehyde	ND	40	ug/Kg	06/11/12		KCA	SW8081
Endrin ketone	ND	40	ug/Kg	06/11/12		KCA	SW8081
g-BHC	ND	6.3	ug/Kg	06/11/12		KCA	SW8081
Heptachlor	ND	12	ug/Kg	06/11/12		KCA	SW8081
Heptachlor epoxide	ND	20	ug/Kg	06/11/12		KCA	SW8081
Methoxychlor	ND	200	ug/Kg	06/11/12		KCA	SW8081
Toxaphene	ND	200	ug/Kg	06/11/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	105		%	06/11/12		KCA	30 - 150 %
% TCMX	86		%	06/11/12		KCA	30 - 150 %
<u>TPH by GC (QAM-025)</u>							
Total Petroleum Hydrocarbon	840	460	mg/Kg	06/07/12		JRB	QAM-025 1
<u>QA/QC Surrogates</u>							
% Chlorobenzene (surrogate)	Diluted Out		%	06/07/12		JRB	50 - 150 %
% Pentacosane (surrogate)	Diluted Out		%	06/07/12		JRB	50 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	32	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	06/07/12		R/J	SW8260
Acetone	ND	63	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Acrylonitrile	ND	13	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Isopropylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Total Xylenes	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	6.3	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/07/12		R/J	70 - 130 %
% Bromofluorobenzene	85		%	06/07/12		R/J	70 - 130 %
% Dibromofluoromethane	101		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	95		%	06/07/12		R/J	70 - 130 %

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/06/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	06/06/12		DD	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	06/06/12		DD	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	06/06/12		DD	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	06/06/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
2,4-Dinitrophenol	ND	660	ug/Kg	06/06/12		DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	06/06/12		DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	06/06/12		DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/06/12		DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	06/06/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/06/12		DD	SW 8270
2-Nitroaniline	ND	660	ug/Kg	06/06/12		DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	06/06/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	290	ug/Kg	06/06/12		DD	SW 8270
3-Nitroaniline	ND	660	ug/Kg	06/06/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/06/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	410	ug/Kg	06/06/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
4-Chloroaniline	ND	290	ug/Kg	06/06/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/06/12		DD	SW 8270
4-Nitroaniline	ND	660	ug/Kg	06/06/12		DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	06/06/12		DD	SW 8270
Acenaphthene	480	290	ug/Kg	06/06/12		DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Acetophenone	ND	290	ug/Kg	06/06/12		DD	SW 8270
Aniline	ND	1200	ug/Kg	06/06/12		DD	SW 8270
Anthracene	700	290	ug/Kg	06/06/12		DD	SW 8270
Azobenzene	ND	410	ug/Kg	06/06/12		DD	SW 8270
Benz(a)anthracene	700	290	ug/Kg	06/06/12		DD	SW 8270
Benzidine	ND	500	ug/Kg	06/06/12		DD	SW 8270
Benzo(a)pyrene	670	290	ug/Kg	06/06/12		DD	SW 8270
Benzo(b)fluoranthene	850	290	ug/Kg	06/06/12		DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Benzoic acid	ND	1200	ug/Kg	06/06/12		DD	SW 8270
Benzyl butyl phthalate	ND	290	ug/Kg	06/06/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/06/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	410	ug/Kg	06/06/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/06/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/06/12		DD	SW 8270
Carbazole	ND	620	ug/Kg	06/06/12		DD	SW 8270
Chrysene	620	290	ug/Kg	06/06/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	290	ug/Kg	06/06/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Dibenzofuran	ND	290	ug/Kg	06/06/12		DD	SW 8270
Diethyl phthalate	ND	290	ug/Kg	06/06/12		DD	SW 8270
Dimethylphthalate	ND	290	ug/Kg	06/06/12		DD	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	06/06/12		DD	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	06/06/12		DD	SW 8270
Fluoranthene	1600	290	ug/Kg	06/06/12		DD	SW 8270
Fluorene	380	290	ug/Kg	06/06/12		DD	SW 8270
Hexachlorobenzene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Hexachloroethane	ND	290	ug/Kg	06/06/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Isophorone	ND	290	ug/Kg	06/06/12		DD	SW 8270
Naphthalene	ND	290	ug/Kg	06/06/12		DD	SW 8270
Nitrobenzene	ND	290	ug/Kg	06/06/12		DD	SW 8270
N-Nitrosodimethylamine	ND	410	ug/Kg	06/06/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	06/06/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	410	ug/Kg	06/06/12		DD	SW 8270
Pentachloronitrobenzene	ND	410	ug/Kg	06/06/12		DD	SW 8270
Pentachlorophenol	ND	410	ug/Kg	06/06/12		DD	SW 8270
Phenanthrene	2900	290	ug/Kg	06/06/12		DD	SW 8270
Phenol	ND	290	ug/Kg	06/06/12		DD	SW 8270
Pyrene	1700	290	ug/Kg	06/06/12		DD	SW 8270
Pyridine	ND	410	ug/Kg	06/06/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	93		%	06/06/12		DD	15 - 130 %
% 2-Fluorobiphenyl	64		%	06/06/12		DD	30 - 130 %
% 2-Fluorophenol	84		%	06/06/12		DD	15 - 130 %
% Nitrobenzene-d5	76		%	06/06/12		DD	30 - 130 %
% Phenol-d5	81		%	06/06/12		DD	15 - 130 %
% Terphenyl-d14	79		%	06/06/12		DD	30 - 130 %

1

Project ID: 145 WEST ST.
Client ID: WSWC-2 0-15 FT

Phoenix I.D.: BB93979

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

B = Present in blank, no bias suspected.

Comments:

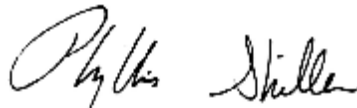
* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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QA/QC Report

June 25, 2012

QA/QC Data

SDG I.D.: GBB93979

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 202000, QC Sample No: BB93264 (BB93979)												
<u>ICP Metals - TCLP Extraction</u>												
Arsenic	BDL	0.0370	<0.10	NC	108	108	0.0	107	105	1.9	75 - 125	20
Barium	BDL	0.56	0.56	0	96.6	96.5	0.1	102	101	1.0	75 - 125	20
Cadmium	BDL	0.0040	<0.050	NC	99.5	98.9	0.6	106	104	1.9	75 - 125	20
Chromium	BDL	<0.10	<0.10	NC	107	99.5	7.3	97.0	97.9	0.9	75 - 125	20
Lead	BDL	0.0283	<0.10	NC	94.1	94.9	0.8	104	102	1.9	75 - 125	20
Selenium	BDL	<0.10	<0.10	NC	107	108	0.9	109	106	2.8	75 - 125	20
Silver	BDL	<0.10	<0.10	NC	104	105	1.0	105	104	1.0	75 - 125	20
QA/QC Batch 202082, QC Sample No: BB93485 (BB93979)												
Mercury - Water	BDL	<0.0002	<0.0002	NC	96.2	94.1	2.2	99.0	100	1.0	70 - 130	20
QA/QC Batch 202050, QC Sample No: BB93961 (BB93979)												
<u>ICP Metals - Soil</u>												
Aluminum	BDL	5580	4750	16.1	96.4	97.7	1.3	NC	NC	NC	75 - 125	30
Antimony	BDL	<2.0	<4.8	NC	104	106	1.9	91.8	92.4	0.7	75 - 125	30
Arsenic	BDL	8.86	8.66	2.30	97.3	99.4	2.1	97.1	100	2.9	75 - 125	30
Barium	BDL	231	261	12.2	99.8	102	2.2	49.7	119	82.2	75 - 125	30 m,r
Beryllium	BDL	0.34	<0.38	NC	102	104	1.9	95.9	99.4	3.6	75 - 125	30
Cadmium	BDL	<0.41	<0.48	NC	94.8	97.3	2.6	93.5	96.3	3.0	75 - 125	30
Calcium	BDL	6370	5760	10.1	104	104	0.0	NC	NC	NC	75 - 125	30
Chromium	BDL	14.4	12.0	18.2	103	102	1.0	95.2	101	5.9	75 - 125	30
Cobalt	BDL	5.61	5.02	11.1	96.5	99.7	3.3	100	102	2.0	75 - 125	30
Copper	BDL	44.6	40.2	10.4	100	102	2.0	91.1	85.4	6.5	75 - 125	30
Iron	BDL	18500	16900	9.00	120	119	0.8	NC	NC	NC	75 - 125	30
Lead	BDL	396	989	85.6	92.5	90.3	2.4	>130	92.1	NC	75 - 125	30 m,r
Magnesium	BDL	2560	1990	25.1	99.7	103	3.3	NC	NC	NC	75 - 125	30
Manganese	BDL	152	137	10.4	100	101	1.0	76.2	97.6	24.6	75 - 125	30
Nickel	BDL	14.5	12.7	13.2	95.7	98.6	3.0	99.1	103	3.9	75 - 125	30
Potassium	BDL	1110	946	16.0	101	104	2.9	106	>130	NC	75 - 125	30 m
Selenium	BDL	<1.6	<1.9	NC	81.7	84.9	3.8	80.9	83.3	2.9	75 - 125	30
Silver	BDL	<0.41	<0.48	NC	98.2	99.3	1.1	94.2	97.7	3.6	75 - 125	30
Sodium	BDL	389	377	3.10	105	107	1.9	>130	>130	NC	75 - 125	30 m
Thallium	BDL	<1.6	<4.3	NC	99.8	104	4.1	98.1	101	2.9	75 - 125	30
Vanadium	BDL	16.8	15.9	5.50	108	107	0.9	101	105	3.9	75 - 125	30
Zinc	BDL	116	110	5.30	95.9	97.8	2.0	60.5	63.5	4.8	75 - 125	30 m
QA/QC Batch 202286, QC Sample No: BB94848 (BB93979)												
Mercury - Soil	BDL	<0.06	<0.08	NC	101	99.9	1.1	102	103	1.0	70 - 130	30

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

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



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QA/QC Report

June 25, 2012

QA/QC Data

SDG I.D.: GBB93979

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 201796, QC Sample No: BB92322 (BB93979)									
<u>TPH by GC (QAM025) - Soil</u>									
Total Petroleum Hydrocarbon	ND	74	85	13.8	87	127	37.4		
% Chlorobenzene (surrogate)	66	77	87	12.2	86	102	17.0		
% Pentacosane (surrogate)	68	56	68	19.4	61	100	48.4		
QA/QC Batch 201873, QC Sample No: BB92740 (BB93979)									
<u>Chlorinated Herbicides - Soil</u>									
2,4,5-T	ND	83	47	55.4	50	48	4.1	40 - 140	30
2,4,5-TP (Silvex)	ND	87	69	23.1	72	73	1.4	40 - 140	30
2,4-D	ND	95	54	55.0	61	59	3.3	40 - 140	30
2,4-DB	ND	80	78	2.5	86	88	2.3	40 - 140	30
Dalapon	ND	75	73	2.7	77	74	4.0	40 - 140	30
Dicamba	ND	91	91	0.0	91	95	4.3	40 - 140	30
Dichloroprop	ND	82	71	14.4	73	75	2.7	40 - 140	30
Dinoseb	ND	105	101	3.9	113	112	0.9	40 - 140	30
% DCAA (Surrogate Rec)	69	73	73	0.0	76	78	2.6	30 - 150	30
QA/QC Batch 202203, QC Sample No: BB93884 (BB93979)									
<u>Volatiles - Soil</u>									
1,1,1,2-Tetrachloroethane	ND	110	117	6.2	103	105	1.9	70 - 130	30
1,1,1-Trichloroethane	ND	100	107	6.8	99	98	1.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	101	99	2.0	91	95	4.3	70 - 130	30
1,1,2-Trichloroethane	ND	109	110	0.9	98	98	0.0	70 - 130	30
1,1-Dichloroethane	ND	100	103	3.0	99	97	2.0	70 - 130	30
1,1-Dichloroethene	ND	90	97	7.5	101	96	5.1	70 - 130	30
1,1-Dichloropropene	ND	105	112	6.5	112	110	1.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	98	116	16.8	103	98	5.0	70 - 130	30
1,2,3-Trichloropropane	ND	114	97	16.1	83	103	21.5	70 - 130	30
1,2,4-Trichlorobenzene	ND	97	110	12.6	107	101	5.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	107	111	3.7	107	105	1.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	126	113	10.9	87	91	4.5	70 - 130	30
1,2-Dibromoethane	ND	107	107	0.0	96	100	4.1	70 - 130	30
1,2-Dichlorobenzene	ND	101	104	2.9	101	101	0.0	70 - 130	30
1,2-Dichloroethane	ND	106	108	1.9	99	100	1.0	70 - 130	30
1,2-Dichloropropane	ND	109	111	1.8	104	102	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	109	113	3.6	109	108	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	101	106	4.8	104	104	0.0	70 - 130	30
1,3-Dichloropropane	ND	110	108	1.8	98	101	3.0	70 - 130	30
1,4-Dichlorobenzene	ND	99	104	4.9	103	103	0.0	70 - 130	30
2,2-Dichloropropane	ND	102	111	8.5	97	97	0.0	70 - 130	30
2-Chlorotoluene	ND	106	109	2.8	107	105	1.9	70 - 130	30
2-Hexanone	ND	66	66	0.0	49	53	7.8	70 - 130	30
2-Isopropyltoluene	ND	99	104	4.9	111	109	1.8	70 - 130	30

QA/QC Data

SDG I.D.: GBB93979

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	100	105	4.9	106	106	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	88	88	0.0	83	86	3.6	70 - 130	30	
Acetone	ND	63	69	9.1	<40	<40	NC	70 - 130	30	I,m
Acrylonitrile	ND	89	88	1.1	89	90	1.1	70 - 130	30	
Benzene	ND	106	110	3.7	104	103	1.0	70 - 130	30	
Bromobenzene	ND	109	111	1.8	104	104	0.0	70 - 130	30	
Bromochloromethane	ND	103	104	1.0	98	99	1.0	70 - 130	30	
Bromodichloromethane	ND	105	111	5.6	98	99	1.0	70 - 130	30	
Bromoform	ND	107	115	7.2	95	98	3.1	70 - 130	30	
Bromomethane	ND	73	84	14.0	63	54	15.4	70 - 130	30	m
Carbon Disulfide	ND	82	85	3.6	103	100	3.0	70 - 130	30	
Carbon tetrachloride	ND	103	114	10.1	99	103	4.0	70 - 130	30	
Chlorobenzene	ND	104	106	1.9	105	105	0.0	70 - 130	30	
Chloroethane	ND	92	94	2.2	<40	<40	NC	70 - 130	30	m
Chloroform	ND	102	106	3.8	99	97	2.0	70 - 130	30	
Chloromethane	ND	82	86	4.8	97	93	4.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	101	106	4.8	100	96	4.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	102	107	4.8	98	98	0.0	70 - 130	30	
Dibromochloromethane	ND	107	112	4.6	98	100	2.0	70 - 130	30	
Dibromomethane	ND	108	107	0.9	99	100	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	72	76	5.4	99	97	2.0	70 - 130	30	
Ethylbenzene	ND	105	110	4.7	108	109	0.9	70 - 130	30	
Hexachlorobutadiene	ND	99	120	19.2	117	107	8.9	70 - 130	30	
Isopropylbenzene	ND	107	112	4.6	107	106	0.9	70 - 130	30	
m&p-Xylene	ND	104	109	4.7	108	106	1.9	70 - 130	30	
Methyl ethyl ketone	ND	60	62	3.3	42	40	4.9	70 - 130	30	I,m
Methyl t-butyl ether (MTBE)	ND	97	117	18.7	114	98	15.1	70 - 130	30	
Methylene chloride	ND	90	93	3.3	93	89	4.4	70 - 130	30	
Naphthalene	ND	92	120	26.4	109	97	11.7	70 - 130	30	
n-Butylbenzene	ND	104	113	8.3	110	106	3.7	70 - 130	30	
n-Propylbenzene	ND	102	107	4.8	108	107	0.9	70 - 130	30	
o-Xylene	ND	102	105	2.9	109	109	0.0	70 - 130	30	
p-Isopropyltoluene	ND	111	118	6.1	111	110	0.9	70 - 130	30	
sec-Butylbenzene	ND	104	112	7.4	110	108	1.8	70 - 130	30	
Styrene	ND	101	104	2.9	108	107	0.9	70 - 130	30	
tert-Butylbenzene	ND	107	114	6.3	109	107	1.9	70 - 130	30	
Tetrachloroethene	ND	110	113	2.7	112	113	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	91	87	4.5	87	91	4.5	70 - 130	30	
Toluene	ND	106	111	4.6	105	105	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	88	108	20.4	106	89	17.4	70 - 130	30	
trans-1,3-Dichloropropene	ND	104	109	4.7	97	98	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	99	111	11.4	97	98	1.0	70 - 130	30	
Trichloroethene	ND	111	117	5.3	107	105	1.9	70 - 130	30	
Trichlorofluoromethane	ND	97	101	4.0	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	90	95	5.4	105	103	1.9	70 - 130	30	
Vinyl chloride	ND	86	92	6.7	90	88	2.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	102	99	3.0	98	98	0.0	70 - 130	30	
% Bromofluorobenzene	97	99	100	1.0	102	102	0.0	70 - 130	30	
% Dibromofluoromethane	100	104	102	1.9	95	100	5.1	70 - 130	30	
% Toluene-d8	99	99	99	0.0	99	99	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBB93979

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 202051, QC Sample No: BB93961 (BB93979)										
Semivolatiles - Soil										
1,2,4,5-Tetrachlorobenzene	ND	75	73	2.7	78	76	2.6	30 - 130	30	
1,2,4-Trichlorobenzene	ND	73	69	5.6	73	73	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	73	72	1.4	77	75	2.6	30 - 130	30	
1,3-Dichlorobenzene	ND	72	71	1.4	74	72	2.7	30 - 130	30	
1,4-Dichlorobenzene	ND	72	71	1.4	75	73	2.7	30 - 130	30	
2,4,5-Trichlorophenol	ND	77	78	1.3	87	89	2.3	30 - 130	30	
2,4,6-Trichlorophenol	ND	77	76	1.3	87	89	2.3	30 - 130	30	
2,4-Dichlorophenol	ND	80	79	1.3	85	84	1.2	30 - 130	30	
2,4-Dimethylphenol	ND	57	54	5.4	63	61	3.2	30 - 130	30	
2,4-Dinitrophenol	ND	<5	<5	NC	<5	<5	NC	30 - 130	30	I,m
2,4-Dinitrotoluene	ND	79	81	2.5	76	73	4.0	30 - 130	30	
2,6-Dinitrotoluene	ND	82	79	3.7	75	76	1.3	30 - 130	30	
2-Chloronaphthalene	ND	77	77	0.0	82	82	0.0	30 - 130	30	
2-Chlorophenol	ND	78	77	1.3	82	79	3.7	30 - 130	30	
2-Methylnaphthalene	ND	82	82	0.0	69	67	2.9	30 - 130	30	
2-Methylphenol (o-cresol)	ND	79	77	2.6	80	79	1.3	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	141	139	1.4	30 - 130	30	I,m
2-Nitrophenol	ND	68	64	6.1	68	70	2.9	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	80	74	7.8	86	86	0.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	>150	>150	NC	85	76	11.2	30 - 130	30	I
3-Nitroaniline	ND	141	143	1.4	109	106	2.8	30 - 130	30	I
4,6-Dinitro-2-methylphenol	ND	39	42	7.4	19	15	23.5	30 - 130	30	m
4-Bromophenyl phenyl ether	ND	79	82	3.7	84	87	3.5	30 - 130	30	
4-Chloro-3-methylphenol	ND	82	79	3.7	83	82	1.2	30 - 130	30	
4-Chloroaniline	ND	93	88	5.5	71	70	1.4	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	78	79	1.3	81	81	0.0	30 - 130	30	
4-Nitroaniline	ND	86	86	0.0	84	86	2.4	30 - 130	30	
4-Nitrophenol	ND	83	80	3.7	101	98	3.0	30 - 130	30	
Acenaphthene	ND	83	82	1.2	89	90	1.1	30 - 130	30	
Acenaphthylene	ND	80	80	0.0	89	91	2.2	30 - 130	30	
Acetophenone	ND	75	72	4.1	77	75	2.6	30 - 130	30	
Aniline	ND	127	120	5.7	86	76	12.3	30 - 130	30	
Anthracene	ND	85	87	2.3	92	95	3.2	30 - 130	30	
Azobenzene	ND	81	79	2.5	81	80	1.2	30 - 130	30	
Benz(a)anthracene	ND	81	82	1.2	91	88	3.4	30 - 130	30	
Benzidine	ND	68	71	4.3	<5	<5	NC	30 - 130	30	m
Benzo(a)pyrene	ND	74	76	2.7	87	89	2.3	30 - 130	30	
Benzo(b)fluoranthene	ND	82	83	1.2	114	126	10.0	30 - 130	30	
Benzo(ghi)perylene	ND	77	81	5.1	92	92	0.0	30 - 130	30	
Benzo(k)fluoranthene	ND	77	77	0.0	56	52	7.4	30 - 130	30	
Benzyl butyl phthalate	ND	85	85	0.0	71	71	0.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	86	82	4.8	84	81	3.6	30 - 130	30	
Bis(2-chloroethyl)ether	ND	77	75	2.6	91	101	10.4	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	91	88	3.4	88	86	2.3	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	89	85	4.6	69	70	1.4	30 - 130	30	
Carbazole	ND	115	119	3.4	136	136	0.0	30 - 130	30	m
Chrysene	ND	81	80	1.2	71	73	2.8	30 - 130	30	
Dibenz(a,h)anthracene	ND	82	83	1.2	101	100	1.0	30 - 130	30	
Dibenzofuran	ND	79	80	1.3	91	91	0.0	30 - 130	30	
Diethyl phthalate	ND	83	84	1.2	88	90	2.2	30 - 130	30	

QA/QC Data

SDG I.D.: GBB93979

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dimethylphthalate	ND	83	82	1.2	85	86	1.2	30 - 130	30
Di-n-butylphthalate	ND	83	83	0.0	87	88	1.1	30 - 130	30
Di-n-octylphthalate	ND	89	87	2.3	68	69	1.5	30 - 130	30
Fluoranthene	ND	78	82	5.0	NC	NC	NC	30 - 130	30
Fluorene	ND	81	81	0.0	86	89	3.4	30 - 130	30
Hexachlorobenzene	ND	79	80	1.3	90	87	3.4	30 - 130	30
Hexachlorobutadiene	ND	72	70	2.8	72	73	1.4	30 - 130	30
Hexachlorocyclopentadiene	ND	82	81	1.2	17	7.5	77.6	30 - 130	30
Hexachloroethane	ND	72	66	8.7	62	55	12.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	80	83	3.7	91	92	1.1	30 - 130	30
Isophorone	ND	83	81	2.4	82	79	3.7	30 - 130	30
Naphthalene	ND	79	79	0.0	84	82	2.4	30 - 130	30
Nitrobenzene	ND	77	73	5.3	75	75	0.0	30 - 130	30
N-Nitrosodimethylamine	ND	77	75	2.6	78	73	6.6	30 - 130	30
N-Nitrosodi-n-propylamine	ND	80	76	5.1	79	76	3.9	30 - 130	30
N-Nitrosodiphenylamine	ND	94	94	0.0	92	93	1.1	30 - 130	30
Pentachloronitrobenzene	ND	>150	>150	NC	>150	>150	NC	30 - 130	30
Pentachlorophenol	ND	59	66	11.2	126	122	3.2	30 - 130	30
Phenanthrene	ND	83	85	2.4	NC	NC	NC	30 - 130	30
Phenol	ND	81	78	3.8	93	90	3.3	30 - 130	30
Pyrene	ND	80	83	3.7	NC	NC	NC	30 - 130	30
Pyridine	ND	66	68	3.0	73	66	10.1	30 - 130	30
% 2,4,6-Tribromophenol	92	77	77	0.0	87	89	2.3	15 - 130	30
% 2-Fluorobiphenyl	72	72	73	1.4	77	77	0.0	30 - 130	30
% 2-Fluorophenol	82	75	73	2.7	75	74	1.3	15 - 130	30
% Nitrobenzene-d5	79	76	70	8.2	73	72	1.4	30 - 130	30
% Phenol-d5	82	77	74	4.0	77	75	2.6	15 - 130	30
% Terphenyl-d14	77	80	82	2.5	79	81	2.5	30 - 130	30

QA/QC Batch 202041, QC Sample No: BB93967 (BB93979)

Pesticides - Soil

4,4' -DDD	ND	67	62	7.8	73	68	7.1	40 - 140	30
4,4' -DDE	ND	67	63	6.2	73	68	7.1	40 - 140	30
4,4' -DDT	ND	71	66	7.3	76	70	8.2	40 - 140	30
a-BHC	ND	77	73	5.3	84	79	6.1	40 - 140	30
a-Chlordane	ND	75	72	4.1	81	76	6.4	40 - 140	30
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
Aldrin	ND	75	72	4.1	80	75	6.5	40 - 140	30
b-BHC	ND	76	74	2.7	84	78	7.4	40 - 140	30
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
d-BHC	ND	76	75	1.3	85	80	6.1	40 - 140	30
Dieldrin	ND	75	72	4.1	82	76	7.6	40 - 140	30
Endosulfan I	ND	75	72	4.1	82	76	7.6	40 - 140	30
Endosulfan II	ND	66	67	1.5	83	76	8.8	40 - 140	30
Endosulfan sulfate	ND	62	68	9.2	82	77	6.3	40 - 140	30
Endrin	ND	73	69	5.6	79	73	7.9	40 - 140	30
Endrin aldehyde	ND	70	77	9.5	101	94	7.2	40 - 140	30
Endrin ketone	ND	76	76	0.0	89	83	7.0	40 - 140	30
g-BHC	ND	76	73	4.0	83	79	4.9	40 - 140	30
g-Chlordane	ND	76	72	5.4	82	76	7.6	40 - 140	30
Heptachlor	ND	74	71	4.1	80	76	5.1	40 - 140	30
Heptachlor epoxide	ND	75	72	4.1	80	75	6.5	40 - 140	30
Methoxychlor	ND	68	64	6.1	74	69	7.0	40 - 140	30

QA/QC Data

SDG I.D.: GBB93979

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
% DCBP	88	85	78	8.6	86	78	9.8	30 - 150	30
% TCMX	74	88	82	7.1	91	82	10.4	30 - 150	30
QA/QC Batch 202049, QC Sample No: BB93967 (BB93979)									
Polychlorinated Biphenyls - Soil									
PCB-1016	ND	86	84	2.4	94	87	7.7	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	86	83	3.6	93	82	12.6	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	71	73	72	1.4	76	69	9.7	30 - 150	30
% TCMX (Surrogate Rec)	77	77	75	2.6	77	74	4.0	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

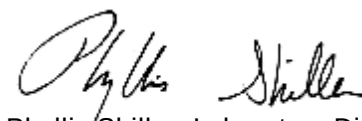
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

June 25, 2012

Sample Criteria Exceedences Report

Requested Criteria: 375NR, 375RS

GBB93979

SampNo	LocCode	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BB93979	GALLI-ENG	\$PCB_SMR	Total PCBs	NY / 375-6.8 PCBs/Pesticides / Commercial	1400	210	1000	1000	ug/Kg
BB93979	GALLI-ENG	\$PCB_SMR	Total PCBs	NY / 375-6.8 PCBs/Pesticides / Residential	1400	210	1000	1000	ug/Kg
BB93979	GALLI-ENG	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	558	0.43	400	400	mg/Kg
BB93979	GALLI-ENG	BA-SM	Barium	NY / 375-6.8 Metals / Residential	558	0.43	350	350	mg/Kg
BB93979	GALLI-ENG	PB-SM	Lead	NY / 375-6.8 Metals / Residential	599	4.3	400	400	mg/Kg

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



Monday, June 25, 2012

**Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747**

**Project ID: 145 WEST ST
Sample ID#s: BB95362 - BB95368**

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

**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



SDG Comments

June 25, 2012

SDG I.D.: GBB95362

BB95363 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BB95364 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BB95365 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BB95366 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: WATER
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date	Time
06/06/12	0:00
06/07/12	17:45

Laboratory Data

SDG ID: GBB95362
Phoenix ID: BB95362

Project ID: 145 WEST ST
Client ID: FIELD BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.001	0.001	mg/L	06/09/12		LK	SW6010/E200.7
Aluminum	< 0.010	0.010	mg/L	06/09/12		LK	SW6010/E200.7
Arsenic	< 0.004	0.004	mg/L	06/09/12		LK	SW6010/E200.7
Barium	< 0.002	0.002	mg/L	06/09/12		LK	SW6010/E200.7
Beryllium	< 0.001	0.001	mg/L	06/09/12		LK	SW6010/E200.7
Calcium	0.010	0.010	mg/L	06/12/12		LK	SW6010/E200.7
Cadmium	< 0.001	0.001	mg/L	06/09/12		LK	SW6010/E200.7
Cobalt	< 0.002	0.002	mg/L	06/09/12		LK	SW6010/E200.7
Chromium	< 0.001	0.001	mg/L	06/09/12		LK	SW6010/E200.7
Copper	< 0.005	0.005	mg/L	06/09/12		LK	SW6010/E200.7
Iron	< 0.010	0.010	mg/L	06/09/12		LK	SW6010/E200.7
Mercury	< 0.0002	0.0002	mg/L	06/08/12		RS	SW7470/245.1
Potassium	< 0.1	0.1	mg/L	06/09/12		LK	SW6010/E200.7
Magnesium	< 0.01	0.01	mg/L	06/09/12		LK	SW6010/E200.7
Manganese	< 0.001	0.001	mg/L	06/09/12		LK	SW6010/E200.7
Sodium	< 0.1	0.1	mg/L	06/09/12		LK	SW6010/E200.7
Nickel	< 0.001	0.001	mg/L	06/09/12		LK	SW6010/E200.7
Lead	< 0.002	0.002	mg/L	06/09/12		LK	SW6010/E200.7
Antimony	< 0.005	0.005	mg/L	06/09/12		LK	SW6010/E200.7
Selenium	< 0.010	0.010	mg/L	06/09/12		LK	SW6010/E200.7
Thallium	< 0.002	0.002	mg/L	06/13/12		RS	SW7010/200.9
Total Metals Digestion	Completed			06/07/12		AG	
Vanadium	< 0.002	0.002	mg/L	06/09/12		LK	SW6010/E200.7
Zinc	< 0.002	0.002	mg/L	06/12/12		LK	SW6010/E200.7
Mercury Digestion	Completed			06/08/12		X/X	SW7470/245.1
Semi-Volatile Extraction	Completed			06/10/12		F/D	SW3520

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	06/08/12		R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	06/08/12		R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	06/08/12		R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	06/08/12		R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	06/08/12		R/T	SW8260
2-Hexanone	ND	5.0	ug/L	06/08/12		R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	06/08/12		R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	06/08/12		R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	06/08/12		R/T	SW8260
Acetone	ND	25	ug/L	06/08/12		R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	06/08/12		R/T	SW8260
Benzene	ND	0.70	ug/L	06/08/12		R/T	SW8260
Bromobenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	06/08/12		R/T	SW8260
Bromoform	ND	1.0	ug/L	06/08/12		R/T	SW8260
Bromomethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	06/08/12		R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	06/08/12		R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Chloroethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
Chloroform	ND	1.0	ug/L	06/08/12		R/T	SW8260
Chloromethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	06/08/12		R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	06/08/12		R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	06/08/12		R/T	SW8260
Dibromomethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	06/08/12		R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	06/08/12		R/T	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl ethyl ketone	ND	5.0	ug/L	06/08/12		R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	06/08/12		R/T	SW8260
Methylene chloride	ND	1.0	ug/L	06/08/12		R/T	SW8260
Naphthalene	ND	1.0	ug/L	06/08/12		R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
o-Xylene	ND	1.0	ug/L	06/08/12		R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	06/08/12		R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Styrene	ND	1.0	ug/L	06/08/12		R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	06/08/12		R/T	SW8260 1
Toluene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Total Xylenes	ND	1.0	ug/L	06/08/12		R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	06/08/12		R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	06/08/12		R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	06/08/12		R/T	SW8260
Trichloroethene	ND	1.0	ug/L	06/08/12		R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	06/08/12		R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	06/08/12		R/T	SW8260 1P
Vinyl chloride	ND	1.0	ug/L	06/08/12		R/T	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	06/08/12		R/T	70 - 130 %
% Bromofluorobenzene	88		%	06/08/12		R/T	70 - 130 %
% Dibromofluoromethane	97		%	06/08/12		R/T	70 - 130 %
% Toluene-d8	85		%	06/08/12		R/T	70 - 130 %
<u>Semivolatiles</u>							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	06/12/12		DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	06/12/12		DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	06/12/12		DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	06/12/12		DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	06/12/12		DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	06/12/12		DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	06/12/12		DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	06/12/12		DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	06/12/12		DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	06/12/12		DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	06/12/12		DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	06/12/12		DD	SW8270
2-Chlorophenol	ND	10	ug/L	06/12/12		DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	06/12/12		DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	06/12/12		DD	SW8270
2-Nitroaniline	ND	50	ug/L	06/12/12		DD	SW8270
2-Nitrophenol	ND	10	ug/L	06/12/12		DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	06/12/12		DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	06/12/12		DD	SW8270
3-Nitroaniline	ND	50	ug/L	06/12/12		DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	06/12/12		DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	06/12/12		DD	SW8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	20	ug/L	06/12/12		DD	SW8270
4-Chloroaniline	ND	20	ug/L	06/12/12		DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	06/12/12		DD	SW8270
4-Nitroaniline	ND	20	ug/L	06/12/12		DD	SW8270
4-Nitrophenol	ND	50	ug/L	06/12/12		DD	SW8270
Acetophenone	ND	5.0	ug/L	06/12/12		DD	SW8270
Aniline	ND	10	ug/L	06/12/12		DD	SW8270
Anthracene	ND	5.0	ug/L	06/12/12		DD	SW8270
Azobenzene	ND	5.0	ug/L	06/12/12		DD	SW8270
Benzidine	ND	50	ug/L	06/12/12		DD	SW8270
Benzoic acid	ND	50	ug/L	06/12/12		DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	06/12/12		DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	06/12/12		DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	06/12/12		DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	06/12/12		DD	SW8270
Carbazole	ND	5.0	ug/L	06/12/12		DD	SW8270
Dibenzofuran	ND	5.0	ug/L	06/12/12		DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	06/12/12		DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	06/12/12		DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	06/12/12		DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	06/12/12		DD	SW8270
Fluoranthene	ND	5.0	ug/L	06/12/12		DD	SW8270
Fluorene	ND	5.0	ug/L	06/12/12		DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	06/12/12		DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	06/12/12		DD	SW8270
Isophorone	ND	5.0	ug/L	06/12/12		DD	SW8270
Naphthalene	ND	5.0	ug/L	06/12/12		DD	SW8270
Nitrobenzene	ND	5.0	ug/L	06/12/12		DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	06/12/12		DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	06/12/12		DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	06/12/12		DD	SW8270
Phenol	ND	10	ug/L	06/12/12		DD	SW8270
Pyrene	ND	5.0	ug/L	06/12/12		DD	SW8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	106		%	06/12/12		DD	15 - 130 %
% 2-Fluorobiphenyl	68		%	06/12/12		DD	30 - 130 %
% 2-Fluorophenol	74		%	06/12/12		DD	15 - 130 %
% Nitrobenzene-d5	67		%	06/12/12		DD	30 - 130 %
% Phenol-d5	71		%	06/12/12		DD	15 - 130 %
% Terphenyl-d14	102		%	06/12/12		DD	30 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	06/11/12		DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.040	ug/L	06/11/12		DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	06/11/12		DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	06/11/12		DD	SW8270 (SIM)

Parameter	Result	RL	Units	Date	Time	By	Reference
Chrysene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	06/11/12		DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	06/11/12		DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	06/11/12		DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	06/11/12		DD	SW8270 (SIM) 10
Pentachlorophenol	ND	0.80	ug/L	06/11/12		DD	SW8270 (SIM)
Phenanthrene	ND	0.050	ug/L	06/11/12		DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	06/11/12		DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	106		%	06/11/12		DD	15 - 130 %
% 2-Fluorobiphenyl	68		%	06/11/12		DD	30 - 130 %
% 2-Fluorophenol	74		%	06/11/12		DD	15 - 130 %
% Nitrobenzene-d5	67		%	06/11/12		DD	30 - 130 %
% Phenol-d5	71		%	06/11/12		DD	15 - 130 %
% Terphenyl-d14	102		%	06/11/12		DD	30 - 130 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

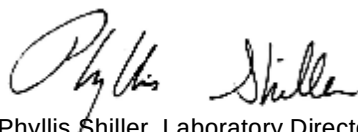
10 = This parameter is not certified by NY NELAC for this matrix.

Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date	Time
06/06/12	0:00
06/07/12	17:45

Laboratory Data

SDG ID: GBB95362
Phoenix ID: BB95363

Project ID: 145 WEST ST

Client ID: WS D2-25

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	06/08/12		LK	SW6010
Aluminum	6010	56	mg/Kg	06/08/12		LK	SW6010
Arsenic	1.56	0.75	mg/Kg	06/08/12		LK	SW6010
Barium	114	0.37	mg/Kg	06/08/12		LK	SW6010
Beryllium	< 0.30	0.30	mg/Kg	06/08/12		LK	SW6010
Calcium	159	5.6	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	06/08/12		LK	SW6010
Cobalt	5.02	0.37	mg/Kg	06/08/12		LK	SW6010
Chromium	14.9	0.37	mg/Kg	06/08/12		LK	SW6010
Copper	15.1	0.37	mg/kg	06/08/12		LK	SW6010
Iron	18100	56	mg/Kg	06/08/12		LK	SW6010
Mercury	< 0.06	0.06	mg/Kg	06/08/12		RS	SW-7471
Potassium	1290	5.6	mg/Kg	06/08/12		LK	SW6010
Magnesium	1420	5.6	mg/Kg	06/08/12		LK	SW6010
Manganese	108	0.37	mg/Kg	06/08/12		LK	SW6010
Sodium	660	5.6	mg/Kg	06/08/12		LK	SW6010
Nickel	10.2	0.37	mg/Kg	06/08/12		LK	SW6010
Lead	4.51	0.37	mg/Kg	06/08/12		LK	SW6010
Antimony	< 3.7	3.7	mg/Kg	06/11/12		EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/08/12		LK	SW6010
Thallium	< 3.4	3.4	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/07/12		AG	SW846 - 3050
Vanadium	24.0	0.37	mg/Kg	06/08/12		LK	SW6010
Zinc	26.9	0.37	mg/Kg	06/08/12		LK	SW6010
Percent Solid	88		%	06/07/12		JL	E160.3
Chromium, Hexavalent	< 0.44	0.44	mg/Kg	06/12/12	12:19	KDB	SW3060/7196
Soil Extraction for PCB	Completed			06/07/12		JB/F	SW3545
Soil Extraction for Pesticide	Completed			06/07/12		JB	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Soil Extraction for SVOA	Completed			06/07/12		JB/F	SW3545
Mercury Digestion	Completed			06/08/12		X/D	SW7471
Soil Extraction for Herbicide	Completed			06/08/12		M/D	SW8151
Chlorinated Herbicides							
2,4,5-T	ND	47	ug/Kg	06/11/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	47	ug/Kg	06/11/12		JRB	SW8151
2,4-D	ND	47	ug/Kg	06/11/12		JRB	SW8151
2,4-DB	ND	470	ug/Kg	06/11/12		JRB	SW8151
Dalapon	ND	47	ug/Kg	06/11/12		JRB	SW8151
Dicamba	ND	94	ug/Kg	06/11/12		JRB	SW8151
Dichloroprop	ND	47	ug/Kg	06/11/12		JRB	SW8151
Dinoseb	ND	94	ug/Kg	06/11/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	73		%	06/11/12		JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1221	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1232	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1242	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1248	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1254	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1260	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1262	ND	370	ug/Kg	06/08/12		MH	SW 8082
PCB-1268	ND	370	ug/Kg	06/08/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	93		%	06/08/12		MH	30 - 150 %
% TCMX	95		%	06/08/12		MH	30 - 150 %
Pesticides							
4,4' -DDD	ND	36	ug/Kg	06/11/12		KCA	SW8081
4,4' -DDE	ND	36	ug/Kg	06/11/12		KCA	SW8081
4,4' -DDT	ND	36	ug/Kg	06/11/12		KCA	SW8081
a-BHC	ND	18	ug/Kg	06/11/12		KCA	SW8081
Alachlor	ND	18	ug/Kg	06/11/12		KCA	SW8081
Aldrin	ND	5.5	ug/Kg	06/11/12		KCA	SW8081
b-BHC	ND	18	ug/Kg	06/11/12		KCA	SW8081
Chlordane	ND	55	ug/Kg	06/11/12		KCA	SW8081
d-BHC	ND	18	ug/Kg	06/11/12		KCA	SW8081
Dieldrin	ND	5.5	ug/Kg	06/11/12		KCA	SW8081
Endosulfan I	ND	18	ug/Kg	06/11/12		KCA	SW8081
Endosulfan II	ND	36	ug/Kg	06/11/12		KCA	SW8081
Endosulfan sulfate	ND	36	ug/Kg	06/11/12		KCA	SW8081
Endrin	ND	36	ug/Kg	06/11/12		KCA	SW8081
Endrin aldehyde	ND	36	ug/Kg	06/11/12		KCA	SW8081
Endrin ketone	ND	36	ug/Kg	06/11/12		KCA	SW8081
g-BHC	ND	5.5	ug/Kg	06/11/12		KCA	SW8081
Heptachlor	ND	11	ug/Kg	06/11/12		KCA	SW8081
Heptachlor epoxide	ND	18	ug/Kg	06/11/12		KCA	SW8081
Methoxychlor	ND	180	ug/Kg	06/11/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	180	ug/Kg	06/11/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	86		%	06/11/12		KCA	30 - 150 %
% TCMX	108		%	06/11/12		KCA	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
2-Hexanone	ND	28	ug/Kg	06/08/12		R/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	06/08/12		R/J	SW8260
Acetone	ND	28	ug/Kg	06/08/12		R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	06/08/12		R/J	SW8260
Benzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Bromoform	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Bromomethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Chloroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Chloroform	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Chloromethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Dibromochloromethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Ethylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	06/08/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/08/12		R/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Naphthalene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
o-Xylene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Styrene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/08/12		R/J	SW8260
Toluene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/08/12		R/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	06/08/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	06/08/12		R/J	70 - 130 %
% Bromofluorobenzene	98		%	06/08/12		R/J	70 - 130 %
% Dibromofluoromethane	100		%	06/08/12		R/J	70 - 130 %
% Toluene-d8	101		%	06/08/12		R/J	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	06/07/12		DD	SW 8270	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
3-Nitroaniline	ND	600	ug/Kg	06/07/12		DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/07/12		DD	SW 8270	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	06/07/12		DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Chloroaniline	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Nitroaniline	ND	600	ug/Kg	06/07/12		DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acetophenone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Aniline	ND	1100	ug/Kg	06/07/12		DD	SW 8270	LO
Anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Azobenzene	ND	370	ug/Kg	06/07/12		DD	SW 8270	1
Benz(a)anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzidine	ND	450	ug/Kg	06/07/12		DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	06/07/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Carbazole	ND	560	ug/Kg	06/07/12		DD	SW 8270	
Chrysene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Fluorene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Isophorone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Naphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	06/07/12		DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	06/07/12		DD	SW 8270	1

Parameter	Result	RL	Units	Date	Time	By	Reference
Pentachlorophenol	ND	370	ug/Kg	06/07/12		DD	SW 8270
Phenanthrene	ND	260	ug/Kg	06/07/12		DD	SW 8270
Phenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
Pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270
Pyridine	ND	370	ug/Kg	06/07/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	06/07/12		DD	15 - 130 %
% 2-Fluorobiphenyl	71		%	06/07/12		DD	30 - 130 %
% 2-Fluorophenol	68		%	06/07/12		DD	15 - 130 %
% Nitrobenzene-d5	72		%	06/07/12		DD	30 - 130 %
% Phenol-d5	70		%	06/07/12		DD	15 - 130 %
% Terphenyl-d14	84		%	06/07/12		DD	30 - 130 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

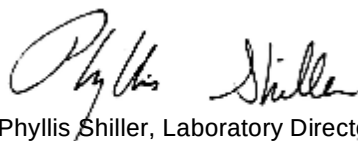
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/06/12
06/07/12

Time

0:00
17:45

Laboratory Data

SDG ID: GBB95362
Phoenix ID: BB95364

Project ID: 145 WEST ST

Client ID: WS A2 0-20

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	06/08/12		LK	SW6010
Aluminum	3520	71	mg/Kg	06/08/12		LK	SW6010
Arsenic	12.5	0.95	mg/Kg	06/08/12		LK	SW6010
Barium	463	0.48	mg/Kg	06/08/12		LK	SW6010
Beryllium	< 0.38	0.38	mg/Kg	06/08/12		LK	SW6010
Calcium	7840	7.1	mg/Kg	06/08/12		LK	SW6010
Cadmium	0.72	0.48	mg/Kg	06/08/12		LK	SW6010
Cobalt	6.31	0.48	mg/Kg	06/08/12		LK	SW6010
Chromium	9.08	0.48	mg/Kg	06/08/12		LK	SW6010
Copper	70.7	0.48	mg/kg	06/08/12		LK	SW6010
Iron	14300	71	mg/Kg	06/08/12		LK	SW6010
Mercury	0.24	0.09	mg/Kg	06/08/12		RS	SW-7471
Potassium	602	7.1	mg/Kg	06/08/12		LK	SW6010
Magnesium	1030	7.1	mg/Kg	06/08/12		LK	SW6010
Manganese	132	0.48	mg/Kg	06/08/12		LK	SW6010
Sodium	1250	7.1	mg/Kg	06/08/12		LK	SW6010
Nickel	13.6	0.48	mg/Kg	06/08/12		LK	SW6010
Lead	314	4.8	mg/Kg	06/08/12		LK	SW6010
Antimony	< 4.8	4.8	mg/Kg	06/11/12		EK	SW6010
Selenium	< 1.9	1.9	mg/Kg	06/08/12		LK	SW6010
Thallium	< 4.3	4.3	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/07/12		AG	SW846 - 3050
Vanadium	17.3	0.48	mg/Kg	06/08/12		LK	SW6010
Zinc	969	4.8	mg/Kg	06/08/12		LK	SW6010
Percent Solid	74		%	06/07/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/07/12		JB/F	SW3545
Mercury Digestion	Completed			06/08/12		X/D	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,1-Dichloroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,1-Dichloroethene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,1-Dichloropropene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,2-Dibromoethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,2-Dichloroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,2-Dichloropropane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,3-Dichloropropane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
2,2-Dichloropropane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
2-Chlorotoluene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
2-Hexanone	ND	34	ug/Kg	06/11/12		R/J	SW8260
2-Isopropyltoluene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
4-Methyl-2-pentanone	ND	34	ug/Kg	06/11/12		R/J	SW8260
Acetone	ND	34	ug/Kg	06/11/12		R/J	SW8260
Acrylonitrile	ND	14	ug/Kg	06/11/12		R/J	SW8260
Benzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Bromobenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Bromochloromethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Bromodichloromethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Bromoform	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Bromomethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Carbon Disulfide	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Carbon tetrachloride	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Chlorobenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Chloroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Chloroform	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Chloromethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Dibromochloromethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Dibromomethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Ethylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Hexachlorobutadiene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
m&p-Xylene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	34	ug/Kg	06/11/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	06/11/12		R/J	SW8260
Methylene chloride	ND	14	ug/Kg	06/11/12		R/J	SW8260
Naphthalene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
n-Butylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
n-Propylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
o-Xylene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
p-Isopropyltoluene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
sec-Butylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Styrene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
tert-Butylbenzene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Tetrachloroethene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	06/11/12		R/J	SW8260
Toluene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Total Xylenes	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	06/11/12		R/J	SW8260
Trichloroethene	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Trichlorofluoromethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
Vinyl chloride	ND	6.8	ug/Kg	06/11/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	116		%	06/11/12		R/J	70 - 130 %
% Bromofluorobenzene	89		%	06/11/12		R/J	70 - 130 %
% Dibromofluoromethane	102		%	06/11/12		R/J	70 - 130 %
% Toluene-d8	100		%	06/11/12		R/J	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	06/08/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	310	ug/Kg	06/08/12		DD	SW 8270
1,2-Dichlorobenzene	ND	310	ug/Kg	06/08/12		DD	SW 8270
1,3-Dichlorobenzene	ND	310	ug/Kg	06/08/12		DD	SW 8270
1,4-Dichlorobenzene	ND	310	ug/Kg	06/08/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	310	ug/Kg	06/08/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	310	ug/Kg	06/08/12		DD	SW 8270
2,4-Dichlorophenol	ND	310	ug/Kg	06/08/12		DD	SW 8270
2,4-Dimethylphenol	ND	310	ug/Kg	06/08/12		DD	SW 8270
2,4-Dinitrophenol	ND	710	ug/Kg	06/08/12		DD	SW 8270
2,4-Dinitrotoluene	ND	310	ug/Kg	06/08/12		DD	SW 8270
2,6-Dinitrotoluene	ND	310	ug/Kg	06/08/12		DD	SW 8270
2-Chloronaphthalene	ND	310	ug/Kg	06/08/12		DD	SW 8270
2-Chlorophenol	ND	310	ug/Kg	06/08/12		DD	SW 8270
2-Methylnaphthalene	ND	310	ug/Kg	06/08/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	310	ug/Kg	06/08/12		DD	SW 8270
2-Nitroaniline	ND	710	ug/Kg	06/08/12		DD	SW 8270
2-Nitrophenol	ND	310	ug/Kg	06/08/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	490	440	ug/Kg	06/08/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	310	ug/Kg	06/08/12		DD	SW 8270
3-Nitroaniline	ND	710	ug/Kg	06/08/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1300	ug/Kg	06/08/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Bromophenyl phenyl ether	ND	440	ug/Kg	06/08/12		DD	SW 8270	
4-Chloro-3-methylphenol	ND	310	ug/Kg	06/08/12		DD	SW 8270	
4-Chloroaniline	ND	310	ug/Kg	06/08/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	06/08/12		DD	SW 8270	
4-Nitroaniline	ND	710	ug/Kg	06/08/12		DD	SW 8270	
4-Nitrophenol	ND	1300	ug/Kg	06/08/12		DD	SW 8270	
Acenaphthene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Acenaphthylene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Acetophenone	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Aniline	ND	1300	ug/Kg	06/08/12		DD	SW 8270	LO
Anthracene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Azobenzene	ND	440	ug/Kg	06/08/12		DD	SW 8270	1
Benz(a)anthracene	660	310	ug/Kg	06/08/12		DD	SW 8270	
Benzidine	ND	530	ug/Kg	06/08/12		DD	SW 8270	
Benzo(a)pyrene	650	310	ug/Kg	06/08/12		DD	SW 8270	
Benzo(b)fluoranthene	790	310	ug/Kg	06/08/12		DD	SW 8270	
Benzo(ghi)perylene	380	310	ug/Kg	06/08/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Benzoic acid	ND	1300	ug/Kg	06/08/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	440	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Carbazole	ND	670	ug/Kg	06/08/12		DD	SW 8270	
Chrysene	670	310	ug/Kg	06/08/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Dibenzofuran	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Diethyl phthalate	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Dimethylphthalate	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Di-n-butylphthalate	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Di-n-octylphthalate	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Fluoranthene	1500	310	ug/Kg	06/08/12		DD	SW 8270	
Fluorene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorobenzene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorobutadiene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Hexachloroethane	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	340	310	ug/Kg	06/08/12		DD	SW 8270	
Isophorone	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Naphthalene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Nitrobenzene	ND	310	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	440	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	310	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	440	ug/Kg	06/08/12		DD	SW 8270	
Pentachloronitrobenzene	ND	440	ug/Kg	06/08/12		DD	SW 8270	1
Pentachlorophenol	ND	440	ug/Kg	06/08/12		DD	SW 8270	
Phenanthrene	1200	310	ug/Kg	06/08/12		DD	SW 8270	
Phenol	ND	310	ug/Kg	06/08/12		DD	SW 8270	
Pyrene	1400	310	ug/Kg	06/08/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
Pyridine	ND	440	ug/Kg	06/08/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	79		%	06/08/12		DD	15 - 130 %
% 2-Fluorobiphenyl	61		%	06/08/12		DD	30 - 130 %
% 2-Fluorophenol	66		%	06/08/12		DD	15 - 130 %
% Nitrobenzene-d5	67		%	06/08/12		DD	30 - 130 %
% Phenol-d5	69		%	06/08/12		DD	15 - 130 %
% Terphenyl-d14	75		%	06/08/12		DD	30 - 130 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

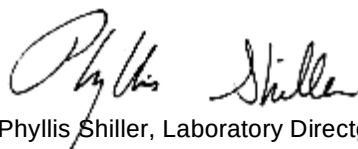
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/06/12	0:00
06/07/12	17:45

Laboratory Data

SDG ID: GBB95362
Phoenix ID: BB95365

Project ID: 145 WEST ST

Client ID: WS B2 0-20

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.55	0.55	mg/Kg	06/08/12		LK	SW6010
Aluminum	8150	83	mg/Kg	06/08/12		LK	SW6010
Arsenic	11.9	1.1	mg/Kg	06/08/12		LK	SW6010
Barium	87.8	0.55	mg/Kg	06/08/12		LK	SW6010
Beryllium	< 0.44	0.44	mg/Kg	06/08/12		LK	SW6010
Calcium	16100	8.3	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.55	0.55	mg/Kg	06/08/12		LK	SW6010
Cobalt	6.20	0.55	mg/Kg	06/08/12		LK	SW6010
Chromium	18.6	0.55	mg/Kg	06/08/12		LK	SW6010
Copper	52.2	0.55	mg/kg	06/08/12		LK	SW6010
Iron	19500	83	mg/Kg	06/08/12		LK	SW6010
Mercury	0.21	0.10	mg/Kg	06/08/12		RS	SW-7471
Potassium	1810	8.3	mg/Kg	06/08/12		LK	SW6010
Magnesium	3540	8.3	mg/Kg	06/08/12		LK	SW6010
Manganese	420	5.5	mg/Kg	06/08/12		LK	SW6010
Sodium	2940	8.3	mg/Kg	06/08/12		LK	SW6010
Nickel	16.4	0.55	mg/Kg	06/08/12		LK	SW6010
Lead	216	0.55	mg/Kg	06/08/12		LK	SW6010
Antimony	< 5.5	5.5	mg/Kg	06/11/12		EK	SW6010
Selenium	< 2.2	2.2	mg/Kg	06/08/12		LK	SW6010
Thallium	< 5.0	5.0	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/07/12		AG	SW846 - 3050
Vanadium	24.7	0.55	mg/Kg	06/08/12		LK	SW6010
Zinc	112	0.55	mg/Kg	06/08/12		LK	SW6010
Percent Solid	64		%	06/07/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/07/12		JB/F	SW3545
Mercury Digestion	Completed			06/08/12		X/D	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,1,1-Trichloroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,1,2-Trichloroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,1-Dichloroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,1-Dichloroethene	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,1-Dichloropropene	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,2-Dibromoethane	ND	390	ug/Kg	06/12/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,2-Dichloroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,2-Dichloropropane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,3-Dichlorobenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,3-Dichloropropane	ND	390	ug/Kg	06/12/12		R/J	SW8260
1,4-Dichlorobenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
2,2-Dichloropropane	ND	390	ug/Kg	06/12/12		R/J	SW8260
2-Chlorotoluene	ND	390	ug/Kg	06/12/12		R/J	SW8260
2-Hexanone	ND	2000	ug/Kg	06/12/12		R/J	SW8260
2-Isopropyltoluene	ND	390	ug/Kg	06/12/12		R/J	SW8260 1
4-Chlorotoluene	ND	390	ug/Kg	06/12/12		R/J	SW8260
4-Methyl-2-pentanone	ND	2000	ug/Kg	06/12/12		R/J	SW8260
Acetone	ND	2000	ug/Kg	06/12/12		R/J	SW8260
Acrylonitrile	ND	780	ug/Kg	06/12/12		R/J	SW8260
Benzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Bromobenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Bromochloromethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Bromodichloromethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Bromoform	ND	390	ug/Kg	06/12/12		R/J	SW8260
Bromomethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Carbon Disulfide	ND	390	ug/Kg	06/12/12		R/J	SW8260
Carbon tetrachloride	ND	390	ug/Kg	06/12/12		R/J	SW8260
Chlorobenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Chloroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Chloroform	ND	390	ug/Kg	06/12/12		R/J	SW8260
Chloromethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	390	ug/Kg	06/12/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Dibromochloromethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Dibromomethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Dichlorodifluoromethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Ethylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Hexachlorobutadiene	ND	390	ug/Kg	06/12/12		R/J	SW8260 1P
Isopropylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
m&p-Xylene	ND	390	ug/Kg	06/12/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	2000	ug/Kg	06/12/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	780	ug/Kg	06/12/12		R/J	SW8260
Methylene chloride	ND	390	ug/Kg	06/12/12		R/J	SW8260
Naphthalene	ND	390	ug/Kg	06/12/12		R/J	SW8260
n-Butylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
n-Propylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
o-Xylene	ND	390	ug/Kg	06/12/12		R/J	SW8260
p-Isopropyltoluene	ND	390	ug/Kg	06/12/12		R/J	SW8260
sec-Butylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Styrene	ND	390	ug/Kg	06/12/12		R/J	SW8260
tert-Butylbenzene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Tetrachloroethene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	780	ug/Kg	06/12/12		R/J	SW8260
Toluene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Total Xylenes	ND	390	ug/Kg	06/12/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	390	ug/Kg	06/12/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	390	ug/Kg	06/12/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	780	ug/Kg	06/12/12		R/J	SW8260
Trichloroethene	ND	390	ug/Kg	06/12/12		R/J	SW8260
Trichlorofluoromethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Trichlorotrifluoroethane	ND	390	ug/Kg	06/12/12		R/J	SW8260
Vinyl chloride	ND	390	ug/Kg	06/12/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	06/12/12		R/J	70 - 130 %
% Bromofluorobenzene	98		%	06/12/12		R/J	70 - 130 %
% Dibromofluoromethane	93		%	06/12/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/12/12		R/J	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	360	ug/Kg	06/08/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	360	ug/Kg	06/08/12		DD	SW 8270
1,2-Dichlorobenzene	ND	360	ug/Kg	06/08/12		DD	SW 8270
1,3-Dichlorobenzene	ND	360	ug/Kg	06/08/12		DD	SW 8270
1,4-Dichlorobenzene	ND	360	ug/Kg	06/08/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	360	ug/Kg	06/08/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	360	ug/Kg	06/08/12		DD	SW 8270
2,4-Dichlorophenol	ND	360	ug/Kg	06/08/12		DD	SW 8270
2,4-Dimethylphenol	ND	360	ug/Kg	06/08/12		DD	SW 8270
2,4-Dinitrophenol	ND	820	ug/Kg	06/08/12		DD	SW 8270
2,4-Dinitrotoluene	ND	360	ug/Kg	06/08/12		DD	SW 8270
2,6-Dinitrotoluene	ND	360	ug/Kg	06/08/12		DD	SW 8270
2-Chloronaphthalene	ND	360	ug/Kg	06/08/12		DD	SW 8270
2-Chlorophenol	ND	360	ug/Kg	06/08/12		DD	SW 8270
2-Methylnaphthalene	440	360	ug/Kg	06/08/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	360	ug/Kg	06/08/12		DD	SW 8270
2-Nitroaniline	ND	820	ug/Kg	06/08/12		DD	SW 8270
2-Nitrophenol	ND	360	ug/Kg	06/08/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	510	ug/Kg	06/08/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	360	ug/Kg	06/08/12		DD	SW 8270
3-Nitroaniline	ND	820	ug/Kg	06/08/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1500	ug/Kg	06/08/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Bromophenyl phenyl ether	ND	510	ug/Kg	06/08/12		DD	SW 8270	
4-Chloro-3-methylphenol	ND	360	ug/Kg	06/08/12		DD	SW 8270	
4-Chloroaniline	ND	360	ug/Kg	06/08/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	360	ug/Kg	06/08/12		DD	SW 8270	
4-Nitroaniline	ND	820	ug/Kg	06/08/12		DD	SW 8270	
4-Nitrophenol	ND	1500	ug/Kg	06/08/12		DD	SW 8270	
Acenaphthene	760	360	ug/Kg	06/08/12		DD	SW 8270	
Acenaphthylene	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Acetophenone	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Aniline	ND	1500	ug/Kg	06/08/12		DD	SW 8270	LO
Anthracene	1000	360	ug/Kg	06/08/12		DD	SW 8270	
Azobenzene	ND	510	ug/Kg	06/08/12		DD	SW 8270	1
Benz(a)anthracene	1900	360	ug/Kg	06/08/12		DD	SW 8270	
Benzidine	ND	620	ug/Kg	06/08/12		DD	SW 8270	
Benzo(a)pyrene	1800	360	ug/Kg	06/08/12		DD	SW 8270	
Benzo(b)fluoranthene	2000	360	ug/Kg	06/08/12		DD	SW 8270	
Benzo(ghi)perylene	840	360	ug/Kg	06/08/12		DD	SW 8270	
Benzo(k)fluoranthene	820	360	ug/Kg	06/08/12		DD	SW 8270	
Benzoic acid	ND	1500	ug/Kg	06/08/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	510	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Carbazole	ND	770	ug/Kg	06/08/12		DD	SW 8270	
Chrysene	1900	360	ug/Kg	06/08/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Dibenzofuran	490	360	ug/Kg	06/08/12		DD	SW 8270	
Diethyl phthalate	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Dimethylphthalate	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Di-n-butylphthalate	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Di-n-octylphthalate	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Fluoranthene	4000	360	ug/Kg	06/08/12		DD	SW 8270	
Fluorene	690	360	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorobenzene	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorobutadiene	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Hexachloroethane	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	770	360	ug/Kg	06/08/12		DD	SW 8270	
Isophorone	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Naphthalene	1300	360	ug/Kg	06/08/12		DD	SW 8270	
Nitrobenzene	ND	360	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	510	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	360	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	510	ug/Kg	06/08/12		DD	SW 8270	
Pentachloronitrobenzene	ND	510	ug/Kg	06/08/12		DD	SW 8270	1
Pentachlorophenol	ND	510	ug/Kg	06/08/12		DD	SW 8270	
Phenanthrene	4100	360	ug/Kg	06/08/12		DD	SW 8270	
Phenol	ND	360	ug/Kg	06/08/12		DD	SW 8270	
Pyrene	3700	360	ug/Kg	06/08/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
Pyridine	ND	510	ug/Kg	06/08/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	06/08/12		DD	15 - 130 %
% 2-Fluorobiphenyl	64		%	06/08/12		DD	30 - 130 %
% 2-Fluorophenol	68		%	06/08/12		DD	15 - 130 %
% Nitrobenzene-d5	72		%	06/08/12		DD	30 - 130 %
% Phenol-d5	71		%	06/08/12		DD	15 - 130 %
% Terphenyl-d14	75		%	06/08/12		DD	30 - 130 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

Comments:

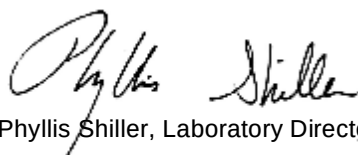
Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date	Time
06/06/12	0:00
06/07/12	17:45

Laboratory Data

SDG ID: GBB95362
Phoenix ID: BB95366

Project ID: 145 WEST ST

Client ID: WS B2 25

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.55	0.55	mg/Kg	06/08/12		LK	SW6010
Aluminum	16100	83	mg/Kg	06/08/12		LK	SW6010
Arsenic	18.2	1.1	mg/Kg	06/08/12		LK	SW6010
Barium	163	0.55	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.55	0.44	mg/Kg	06/08/12		LK	SW6010
Calcium	2930	8.3	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.55	0.55	mg/Kg	06/08/12		LK	SW6010
Cobalt	11.3	0.55	mg/Kg	06/08/12		LK	SW6010
Chromium	37.8	0.55	mg/Kg	06/08/12		LK	SW6010
Copper	76.4	0.55	mg/kg	06/08/12		LK	SW6010
Iron	32200	83	mg/Kg	06/08/12		LK	SW6010
Mercury	1.25	0.11	mg/Kg	06/08/12		RS	SW-7471
Potassium	3300	8.3	mg/Kg	06/08/12		LK	SW6010
Magnesium	7360	8.3	mg/Kg	06/08/12		LK	SW6010
Manganese	499	5.5	mg/Kg	06/08/12		LK	SW6010
Sodium	4930	8.3	mg/Kg	06/08/12		LK	SW6010
Nickel	29.2	0.55	mg/Kg	06/08/12		LK	SW6010
Lead	270	5.5	mg/Kg	06/08/12		LK	SW6010
Antimony	< 5.5	5.5	mg/Kg	06/11/12		EK	SW6010
Selenium	< 2.2	2.2	mg/Kg	06/08/12		LK	SW6010
Thallium	< 5.0	5.0	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/07/12		AG	SW846 - 3050
Vanadium	42.9	0.55	mg/Kg	06/08/12		LK	SW6010
Zinc	185	0.55	mg/Kg	06/08/12		LK	SW6010
Percent Solid	61		%	06/07/12		JL	E160.3
Chromium, Hexavalent	< 0.63	0.63	mg/Kg	06/12/12	12:19	KDB	SW3060/7196
Soil Extraction for PCB	Completed			06/07/12		JB/F	SW3545
Soil Extraction for Pesticide	Completed			06/07/12		JB	SW3545

Parameter	Result	RL	Units	Date	Time	By	Reference
Soil Extraction for SVOA	Completed			06/07/12		JB/F	SW3545
Mercury Digestion	Completed			06/08/12		X/D	SW7471
Soil Extraction for Herbicide	Completed			06/08/12		M/D	SW8151
<u>Chlorinated Herbicides</u>							
2,4,5-T	ND	68	ug/Kg	06/11/12		JRB	SW8151
2,4,5-TP (Silvex)	ND	68	ug/Kg	06/11/12		JRB	SW8151
2,4-D	ND	68	ug/Kg	06/11/12		JRB	SW8151
2,4-DB	ND	680	ug/Kg	06/11/12		JRB	SW8151
Dalapon	ND	68	ug/Kg	06/11/12		JRB	SW8151
Dicamba	ND	140	ug/Kg	06/11/12		JRB	SW8151
Dichloroprop	ND	68	ug/Kg	06/11/12		JRB	SW8151
Dinoseb	ND	140	ug/Kg	06/11/12		JRB	SW8151
<u>QA/QC Surrogates</u>							
% DCAA	76		%	06/11/12		JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1221	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1232	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1242	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1248	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1254	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1260	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1262	ND	530	ug/Kg	06/08/12		MH	SW 8082
PCB-1268	ND	530	ug/Kg	06/08/12		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	76		%	06/08/12		MH	30 - 150 %
% TCMX	69		%	06/08/12		MH	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	51	ug/Kg	06/11/12		KCA	SW8081
4,4' -DDE	ND	51	ug/Kg	06/11/12		KCA	SW8081
4,4' -DDT	ND	51	ug/Kg	06/11/12		KCA	SW8081
a-BHC	ND	26	ug/Kg	06/11/12		KCA	SW8081
Alachlor	ND	26	ug/Kg	06/11/12		KCA	SW8081
Aldrin	ND	8.0	ug/Kg	06/11/12		KCA	SW8081
b-BHC	ND	26	ug/Kg	06/11/12		KCA	SW8081
Chlordane	ND	80	ug/Kg	06/11/12		KCA	SW8081
d-BHC	ND	26	ug/Kg	06/11/12		KCA	SW8081
Dieldrin	ND	8.0	ug/Kg	06/11/12		KCA	SW8081
Endosulfan I	ND	26	ug/Kg	06/11/12		KCA	SW8081
Endosulfan II	ND	51	ug/Kg	06/11/12		KCA	SW8081
Endosulfan sulfate	ND	51	ug/Kg	06/11/12		KCA	SW8081
Endrin	ND	51	ug/Kg	06/11/12		KCA	SW8081
Endrin aldehyde	ND	51	ug/Kg	06/11/12		KCA	SW8081
Endrin ketone	ND	51	ug/Kg	06/11/12		KCA	SW8081
g-BHC	ND	8.0	ug/Kg	06/11/12		KCA	SW8081
Heptachlor	ND	16	ug/Kg	06/11/12		KCA	SW8081
Heptachlor epoxide	ND	26	ug/Kg	06/11/12		KCA	SW8081
Methoxychlor	ND	260	ug/Kg	06/11/12		KCA	SW8081

Parameter	Result	RL	Units	Date	Time	By	Reference
Toxaphene	ND	260	ug/Kg	06/11/12		KCA	SW8081
<u>QA/QC Surrogates</u>							
% DCBP	82		%	06/11/12		KCA	30 - 150 %
% TCMX	84		%	06/11/12		KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,1,1-Trichloroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,1,2-Trichloroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,1-Dichloroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,1-Dichloroethene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,1-Dichloropropene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,2-Dibromoethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,2-Dichloroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,2-Dichloropropane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,3-Dichlorobenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,3-Dichloropropane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
1,4-Dichlorobenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
2,2-Dichloropropane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
2-Chlorotoluene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
2-Hexanone	ND	41	ug/Kg	06/12/12		R/J	SW8260
2-Isopropyltoluene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260 1
4-Chlorotoluene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
4-Methyl-2-pentanone	ND	41	ug/Kg	06/12/12		R/J	SW8260
Acetone	ND	41	ug/Kg	06/12/12		R/J	SW8260
Acrylonitrile	ND	16	ug/Kg	06/12/12		R/J	SW8260
Benzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Bromobenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Bromochloromethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Bromodichloromethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Bromoform	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Bromomethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Carbon Disulfide	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Carbon tetrachloride	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Chlorobenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Chloroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Chloroform	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Chloromethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Dibromochloromethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Dibromomethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Dichlorodifluoromethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Ethylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Hexachlorobutadiene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Isopropylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
m&p-Xylene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Methyl Ethyl Ketone	ND	41	ug/Kg	06/12/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	06/12/12		R/J	SW8260
Methylene chloride	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Naphthalene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
n-Butylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
n-Propylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
o-Xylene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
p-Isopropyltoluene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
sec-Butylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Styrene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
tert-Butylbenzene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Tetrachloroethene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	16	ug/Kg	06/12/12		R/J	SW8260
Toluene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Total Xylenes	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	06/12/12		R/J	SW8260
Trichloroethene	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Trichlorofluoromethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Trichlorotrifluoroethane	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
Vinyl chloride	ND	8.2	ug/Kg	06/12/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/12/12		R/J	70 - 130 %
% Bromofluorobenzene	99		%	06/12/12		R/J	70 - 130 %
% Dibromofluoromethane	100		%	06/12/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/12/12		R/J	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	380	ug/Kg	06/08/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	380	ug/Kg	06/08/12		DD	SW 8270
1,2-Dichlorobenzene	ND	380	ug/Kg	06/08/12		DD	SW 8270
1,3-Dichlorobenzene	ND	380	ug/Kg	06/08/12		DD	SW 8270
1,4-Dichlorobenzene	ND	380	ug/Kg	06/08/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	380	ug/Kg	06/08/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	380	ug/Kg	06/08/12		DD	SW 8270
2,4-Dichlorophenol	ND	380	ug/Kg	06/08/12		DD	SW 8270
2,4-Dimethylphenol	ND	380	ug/Kg	06/08/12		DD	SW 8270
2,4-Dinitrophenol	ND	860	ug/Kg	06/08/12		DD	SW 8270
2,4-Dinitrotoluene	ND	380	ug/Kg	06/08/12		DD	SW 8270
2,6-Dinitrotoluene	ND	380	ug/Kg	06/08/12		DD	SW 8270
2-Chloronaphthalene	ND	380	ug/Kg	06/08/12		DD	SW 8270
2-Chlorophenol	ND	380	ug/Kg	06/08/12		DD	SW 8270
2-Methylnaphthalene	ND	380	ug/Kg	06/08/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	380	ug/Kg	06/08/12		DD	SW 8270
2-Nitroaniline	ND	860	ug/Kg	06/08/12		DD	SW 8270
2-Nitrophenol	ND	380	ug/Kg	06/08/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
3&4-Methylphenol (m&p-cresol)	ND	540	ug/Kg	06/08/12		DD	SW 8270	
3,3'-Dichlorobenzidine	ND	380	ug/Kg	06/08/12		DD	SW 8270	
3-Nitroaniline	ND	860	ug/Kg	06/08/12		DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1600	ug/Kg	06/08/12		DD	SW 8270	
4-Bromophenyl phenyl ether	ND	540	ug/Kg	06/08/12		DD	SW 8270	
4-Chloro-3-methylphenol	ND	380	ug/Kg	06/08/12		DD	SW 8270	
4-Chloroaniline	ND	380	ug/Kg	06/08/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	380	ug/Kg	06/08/12		DD	SW 8270	
4-Nitroaniline	ND	860	ug/Kg	06/08/12		DD	SW 8270	
4-Nitrophenol	ND	1600	ug/Kg	06/08/12		DD	SW 8270	
Acenaphthene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Acenaphthylene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Acetophenone	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Aniline	ND	1600	ug/Kg	06/08/12		DD	SW 8270	LO
Anthracene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Azobenzene	ND	540	ug/Kg	06/08/12		DD	SW 8270	1
Benz(a)anthracene	600	380	ug/Kg	06/08/12		DD	SW 8270	
Benzidine	ND	650	ug/Kg	06/08/12		DD	SW 8270	
Benzo(a)pyrene	550	380	ug/Kg	06/08/12		DD	SW 8270	
Benzo(b)fluoranthene	660	380	ug/Kg	06/08/12		DD	SW 8270	
Benzo(ghi)perylene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Benzoic acid	ND	1600	ug/Kg	06/08/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	540	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Carbazole	ND	810	ug/Kg	06/08/12		DD	SW 8270	
Chrysene	560	380	ug/Kg	06/08/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Dibenzofuran	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Diethyl phthalate	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Dimethylphthalate	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Di-n-butylphthalate	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Di-n-octylphthalate	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Fluoranthene	1000	380	ug/Kg	06/08/12		DD	SW 8270	
Fluorene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorobenzene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorobutadiene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Hexachloroethane	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Isophorone	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Naphthalene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
Nitrobenzene	ND	380	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	540	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	380	ug/Kg	06/08/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	540	ug/Kg	06/08/12		DD	SW 8270	
Pentachloronitrobenzene	ND	540	ug/Kg	06/08/12		DD	SW 8270	1

Parameter	Result	RL	Units	Date	Time	By	Reference
Pentachlorophenol	ND	540	ug/Kg	06/08/12		DD	SW 8270
Phenanthrene	640	380	ug/Kg	06/08/12		DD	SW 8270
Phenol	ND	380	ug/Kg	06/08/12		DD	SW 8270
Pyrene	960	380	ug/Kg	06/08/12		DD	SW 8270
Pyridine	ND	540	ug/Kg	06/08/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	87		%	06/08/12		DD	15 - 130 %
% 2-Fluorobiphenyl	60		%	06/08/12		DD	30 - 130 %
% 2-Fluorophenol	68		%	06/08/12		DD	15 - 130 %
% Nitrobenzene-d5	60		%	06/08/12		DD	30 - 130 %
% Phenol-d5	69		%	06/08/12		DD	15 - 130 %
% Terphenyl-d14	82		%	06/08/12		DD	30 - 130 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

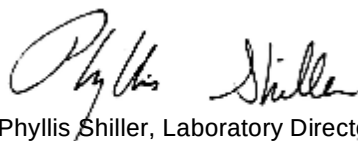
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/06/12 0:00
06/07/12 17:45

Laboratory Data

SDG ID: GBB95362
Phoenix ID: BB95367

Project ID: 145 WEST ST

Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%				E160.3
Field Extraction	Completed			06/06/12		GAL	SW5035

Volatiles

1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,1,1-Trichloroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,1,2-Trichloroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,1-Dichloroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,1-Dichloroethene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,1-Dichloropropene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260	1
1,2,3-Trichloropropane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dibromoethane	ND	250	ug/Kg	06/09/12		R/J	SW8260	1P
1,2-Dichlorobenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dichloroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dichloropropane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,3-Dichlorobenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,3-Dichloropropane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
1,4-Dichlorobenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
2,2-Dichloropropane	ND	250	ug/Kg	06/09/12		R/J	SW8260	
2-Chlorotoluene	ND	250	ug/Kg	06/09/12		R/J	SW8260	
2-Hexanone	ND	1300	ug/Kg	06/09/12		R/J	SW8260	
2-Isopropyltoluene	ND	250	ug/Kg	06/09/12		R/J	SW8260	1

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	06/09/12		R/J	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	06/09/12		R/J	SW8260
Acetone	ND	5000	ug/Kg	06/09/12		R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	06/09/12		R/J	SW8260
Benzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Bromobenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Bromoform	ND	250	ug/Kg	06/09/12		R/J	SW8260
Bromomethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	06/09/12		R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	06/09/12		R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Chloroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Chloroform	ND	250	ug/Kg	06/09/12		R/J	SW8260
Chloromethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	06/09/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Dibromomethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	06/09/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	06/09/12		R/J	SW8260
Methylene chloride	ND	500	ug/Kg	06/09/12		R/J	SW8260
Naphthalene	ND	250	ug/Kg	06/09/12		R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
o-Xylene	ND	250	ug/Kg	06/09/12		R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	06/09/12		R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Styrene	ND	250	ug/Kg	06/09/12		R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	06/09/12		R/J	SW8260
Toluene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Total Xylenes	ND	250	ug/Kg	06/09/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	06/09/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	06/09/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	06/09/12		R/J	SW8260
Trichloroethene	ND	250	ug/Kg	06/09/12		R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	06/09/12		R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	06/09/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/09/12		R/J	70 - 130 %
% Bromofluorobenzene	100		%	06/09/12		R/J	70 - 130 %

1P

1

Parameter	Result	RL	Units	Date	Time	By	Reference
% Dibromofluoromethane	94		%	06/09/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/09/12		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.

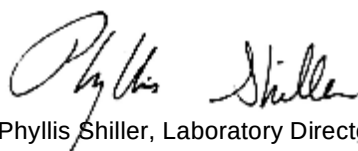
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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



Analysis Report

June 25, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/06/12 0:00
06/07/12 17:45

Laboratory Data

SDG ID: GBB95362
Phoenix ID: BB95368

Project ID: 145 WEST ST

Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%				E160.3
Field Extraction	Completed			06/06/12		GAL	SW5035

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	06/09/12		R/J	SW8260	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,1-Dichloroethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,1-Dichloroethene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,1-Dichloropropene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	1
1,2,3-Trichloropropane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dibromoethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	1P
1,2-Dichlorobenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dichloroethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,2-Dichloropropane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,3-Dichloropropane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
2,2-Dichloropropane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
2-Chlorotoluene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	
2-Hexanone	ND	25	ug/Kg	06/09/12		R/J	SW8260	
2-Isopropyltoluene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260	1

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	06/09/12		R/J	SW8260
Acetone	ND	100	ug/Kg	06/09/12		R/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Benzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Bromoform	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Chloroform	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	06/09/12		R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	06/09/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	06/09/12		R/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Styrene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	06/09/12		R/J	SW8260
Toluene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	06/09/12		R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	06/09/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/09/12		R/J	70 - 130 %
% Bromofluorobenzene	98		%	06/09/12		R/J	70 - 130 %

1P

1

Parameter	Result	RL	Units	Date	Time	By	Reference
% Dibromofluoromethane	98		%	06/09/12		R/J	70 - 130 %
% Toluene-d8	104		%	06/09/12		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.

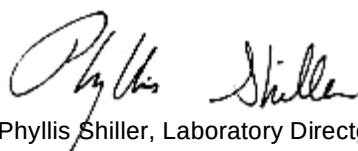
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

June 25, 2012

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 202247, QC Sample No: BB94920 (BB95363, BB95364, BB95365, BB95366)												
<u>ICP Metals - Soil</u>												
Aluminum	BDL	8950	8450	5.70	87.0	102	15.9	NC	NC	NC	75 - 125	30
Antimony	BDL	<0.70	<3.7	NC	103	95.7	7.3	81.9	72.9	11.6	75 - 125	30 m
Arsenic	BDL	3.83	1.90	NC	92.8	108	15.1	91.2	83.7	8.6	75 - 125	30
Barium	BDL	54.6	51.2	6.40	89.8	106	16.5	98.6	85.4	14.3	75 - 125	30
Beryllium	BDL	<0.35	<0.30	NC	89.3	106	17.1	89.1	82.6	7.6	75 - 125	30
Cadmium	BDL	<0.35	<0.37	NC	91.7	109	17.2	92.1	83.5	9.8	75 - 125	30
Calcium	BDL	4310	4100	5.00	88.4	104	16.2	NC	NC	NC	75 - 125	30
Chromium	BDL	16.6	14.9	10.8	93.4	107	13.6	93.1	84.3	9.9	75 - 125	30
Cobalt	BDL	7.45	6.39	15.3	91.6	109	17.3	94.3	85.7	9.6	75 - 125	30
Copper	BDL	30.9	27.2	12.7	95.1	112	16.3	99.5	89.9	10.1	75 - 125	30
Iron	BDL	16700	16000	4.30	102	113	10.2	NC	NC	NC	75 - 125	30
Lead	BDL	21.6	18.3	16.5	91.2	108	16.9	94.6	85.4	10.2	75 - 125	30
Magnesium	BDL	4640	4130	11.6	86.5	102	16.4	NC	NC	NC	75 - 125	30
Manganese	BDL	345	358	3.70	92.4	105	12.8	103	59.2	54.0	75 - 125	30 m,r
Nickel	BDL	12.9	11.5	11.5	91.1	108	17.0	92.4	83.7	9.9	75 - 125	30
Potassium	BDL	1100	1150	4.40	94.8	106	11.2	>130	>130	NC	75 - 125	30 m
Selenium	BDL	<1.4	<1.5	NC	83.9	96.9	14.4	84.7	78.1	8.1	75 - 125	30
Silver	BDL	<0.35	<0.37	NC	90.9	104	13.4	92.7	85.8	7.7	75 - 125	30
Sodium	BDL	382	336	12.8	94.0	104	10.1	>130	>130	NC	75 - 125	30 m
Thallium	BDL	<0.28	<3.3	NC	94.0	112	17.5	93.3	86.0	8.1	75 - 125	30
Vanadium	BDL	32.9	33.6	2.10	94.8	113	17.5	94.5	85.7	9.8	75 - 125	30
Zinc	BDL	37.4	32.9	12.8	92.5	109	16.4	101	84.5	17.8	75 - 125	30

QA/QC Batch 202287, QC Sample No: BB94924 (BB95363, BB95364, BB95365, BB95366)

Mercury - Soil	BDL	<0.08	<0.08	NC	97.0	103	6.0	107	101	5.8	70 - 130	30

QA/QC Batch 202262, QC Sample No: BB94929 (BB95362)

ICP Metals - Aqueous

Aluminum	BDL	0.619	0.616	0.50	98.4	99.3	0.9	102	104	1.9	75 - 125	20
Antimony	BDL	<0.005	<0.005	NC	98.6	102	3.4	104	106	1.9	75 - 125	20
Arsenic	BDL	<0.004	<0.004	NC	97.0	99.6	2.6	103	104	1.0	75 - 125	20
Barium	BDL	0.036	0.036	0	101	103	2.0	106	107	0.9	75 - 125	20
Beryllium	BDL	<0.001	<0.001	NC	99.2	101	1.8	104	105	1.0	75 - 125	20
Cadmium	BDL	<0.001	<0.001	NC	99.9	102	2.1	105	106	0.9	75 - 125	20
Calcium	BDL	17.6	17.3	1.70	99.5	102	2.5	NC	NC	NC	75 - 125	20
Chromium	BDL	<0.001	0.001	NC	98.6	100	1.4	104	105	1.0	75 - 125	20
Cobalt	BDL	<0.002	<0.002	NC	99.3	101	1.7	104	106	1.9	75 - 125	20
Copper	BDL	<0.005	<0.005	NC	98.3	100	1.7	104	105	1.0	75 - 125	20
Iron	BDL	0.049	0.046	NC	97.2	99.2	2.0	101	103	2.0	75 - 125	20
Lead	BDL	<0.002	<0.002	NC	97.8	99.3	1.5	102	103	1.0	75 - 125	20
Magnesium	BDL	2.76	2.74	0.70	99.8	102	2.2	107	111	3.7	75 - 125	20
Manganese	BDL	0.246	0.244	0.80	97.8	99.1	1.3	103	104	1.0	75 - 125	20

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Nickel	BDL	<0.001	<0.001	NC	97.4	99.3	1.9	103	103	0.0	75 - 125	20
Potassium	BDL	0.8	0.8	0	97.1	97.9	0.8	102	105	2.9	75 - 125	20
Selenium	BDL	<0.010	<0.010	NC	98.8	101	2.2	103	105	1.9	75 - 125	20
Silver	BDL	<0.002	<0.001	NC	98.5	100	1.5	104	105	1.0	75 - 125	20
Sodium	BDL	8.33	8.5	2.00	102	102	0.0	NC	NC	NC	75 - 125	20
Vanadium	BDL	<0.002	<0.002	NC	97.5	99.6	2.1	103	104	1.0	75 - 125	20
Zinc	BDL	<0.002	<0.002	NC	102	104	1.9	108	109	0.9	75 - 125	20
QA/QC Batch 202293, QC Sample No: BB95342 (BB95362)												
Mercury - Water	BDL	0.0014	0.0013	7.40	101	97.6	3.4	98.2	95.9	2.4	70 - 130	20
QA/QC Batch 202505, QC Sample No: BB95366 (BB95363, BB95366)												
<u>Hex Chromium () - Solid</u>												
Hexavalent Cr	BDL	BDL	BDL	NC	95.3						70 - 130	30
Insoluble Cr					93.4			1.00			70 - 130	30 m
Soluble Cr					99.5			13.2			70 - 130	30 m
Comment:												
Due to reducing capacity of the sample, the MS/MSD recoveries are low.												
QA/QC Batch 202273, QC Sample No: BB95374 (BB95362)												
Thallium - Water	BDL		<0.001		120	119	0.8	122	120	1.7	75 - 125	20

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

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



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



QA/QC Report

June 25, 2012

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 202361, QC Sample No: BB94887 (BB95362)									
<u>Volatiles - Water</u>									
1,1,1,2-Tetrachloroethane	ND	116	118	1.7	94	102	8.2	70 - 130	30
1,1,1-Trichloroethane	ND	99	102	3.0	74	82	10.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	109	106	2.8	101	106	4.8	70 - 130	30
1,1,2-Trichloroethane	ND	85	83	2.4	74	78	5.3	70 - 130	30
1,1-Dichloroethane	ND	98	101	3.0	73	81	10.4	70 - 130	30
1,1-Dichloroethene	ND	97	101	4.0	76	84	10.0	70 - 130	30
1,1-Dichloropropene	ND	82	85	3.6	69	77	11.0	70 - 130	30 m
1,2,3-Trichlorobenzene	ND	102	97	5.0	79	92	15.2	70 - 130	30
1,2,3-Trichloropropane	ND	110	108	1.8	106	109	2.8	70 - 130	30
1,2,4-Trichlorobenzene	ND	99	95	4.1	85	94	10.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	117	121	3.4	107	117	8.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	90	87	3.4	82	89	8.2	70 - 130	30
1,2-Dibromoethane	ND	84	81	3.6	76	79	3.9	70 - 130	30
1,2-Dichlorobenzene	ND	109	107	1.9	100	108	7.7	70 - 130	30
1,2-Dichloroethane	ND	81	78	3.8	82	86	4.8	70 - 130	30
1,2-Dichloropropane	ND	83	81	2.4	71	77	8.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	121	123	1.6	107	115	7.2	70 - 130	30
1,3-Dichlorobenzene	ND	112	112	0.0	100	108	7.7	70 - 130	30
1,3-Dichloropropane	ND	96	96	0.0	88	92	4.4	70 - 130	30
1,4-Dichlorobenzene	ND	112	113	0.9	101	108	6.7	70 - 130	30
2,2-Dichloropropane	ND	82	85	3.6	50	56	11.3	70 - 130	30 m
2-Chlorotoluene	ND	113	113	0.0	102	110	7.5	70 - 130	30
2-Hexanone	ND	83	80	3.7	88	94	6.6	70 - 130	30
2-Isopropyltoluene	ND	111	111	0.0	109	119	8.8	70 - 130	30
4-Chlorotoluene	ND	113	112	0.9	103	113	9.3	70 - 130	30
4-Methyl-2-pentanone	ND	73	71	2.8	77	82	6.3	70 - 130	30
Acetone	ND	90	86	4.5	87	95	8.8	70 - 130	30
Acrylonitrile	ND	94	94	0.0	89	91	2.2	70 - 130	30
Benzene	ND	84	85	1.2	83	88	5.8	70 - 130	30
Bromobenzene	ND	104	103	1.0	92	99	7.3	70 - 130	30
Bromochloromethane	ND	97	96	1.0	72	78	8.0	70 - 130	30
Bromodichloromethane	ND	85	82	3.6	70	75	6.9	70 - 130	30
Bromoform	ND	114	109	4.5	89	92	3.3	70 - 130	30
Bromomethane	ND	88	90	2.2	<40	<40	NC	70 - 130	30 m
Carbon Disulfide	ND	85	88	3.5	75	86	13.7	70 - 130	30
Carbon tetrachloride	ND	83	86	3.6	53	62	15.7	70 - 130	30 m
Chlorobenzene	ND	116	118	1.7	107	114	6.3	70 - 130	30
Chloroethane	ND	88	91	3.4	69	78	12.2	70 - 130	30 m
Chloroform	ND	100	99	1.0	73	81	10.4	70 - 130	30
Chloromethane	ND	78	81	3.8	101	118	15.5	70 - 130	30
cis-1,2-Dichloroethene	ND	101	102	1.0	73	81	10.4	70 - 130	30

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	79	78	1.3	67	71	5.8	70 - 130	30	m
Dibromochloromethane	ND	98	97	1.0	81	84	3.6	70 - 130	30	
Dibromomethane	ND	82	81	1.2	74	78	5.3	70 - 130	30	
Dichlorodifluoromethane	ND	41	67	48.1	45	53	16.3	70 - 130	30	I,m,r
Ethylbenzene	ND	123	125	1.6	109	119	8.8	70 - 130	30	
Hexachlorobutadiene	ND	96	99	3.1	80	91	12.9	70 - 130	30	
Isopropylbenzene	ND	119	120	0.8	107	118	9.8	70 - 130	30	
m&p-Xylene	ND	115	119	3.4	107	117	8.9	70 - 130	30	
Methyl ethyl ketone	ND	83	71	15.6	69	72	4.3	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	63	62	1.6	64	67	4.6	70 - 130	30	I,m
Methylene chloride	ND	97	96	1.0	73	80	9.2	70 - 130	30	
Naphthalene	ND	100	103	3.0	85	98	14.2	70 - 130	30	
n-Butylbenzene	ND	120	121	0.8	104	115	10.0	70 - 130	30	
n-Propylbenzene	ND	115	117	1.7	107	117	8.9	70 - 130	30	
o-Xylene	ND	112	113	0.9	109	116	6.2	70 - 130	30	
p-Isopropyltoluene	ND	119	122	2.5	101	111	9.4	70 - 130	30	
sec-Butylbenzene	ND	119	123	3.3	106	118	10.7	70 - 130	30	
Styrene	ND	115	112	2.6	120	121	0.8	70 - 130	30	
tert-Butylbenzene	ND	117	115	1.7	103	114	10.1	70 - 130	30	
Tetrachloroethene	ND	99	101	2.0	86	94	8.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	83	81	2.4	74	77	4.0	70 - 130	30	
Toluene	ND	93	95	2.1	84	91	8.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	98	99	1.0	73	82	11.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	81	79	2.5	67	71	5.8	70 - 130	30	m
trans-1,4-dichloro-2-butene	ND	111	109	1.8	80	88	9.5	70 - 130	30	
Trichloroethene	ND	105	107	1.9	90	100	10.5	70 - 130	30	
Trichlorofluoromethane	ND	94	101	7.2	66	75	12.8	70 - 130	30	m
Trichlorotrifluoroethane	ND	86	94	8.9	70	78	10.8	70 - 130	30	
Vinyl chloride	ND	85	91	6.8	76	88	14.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	94	94	93	1.1	95	96	1.0	70 - 130	30	
% Bromofluorobenzene	88	92	92	0.0	93	92	1.1	70 - 130	30	
% Dibromofluoromethane	97	97	95	2.1	78	78	0.0	70 - 130	30	
% Toluene-d8	85	86	85	1.2	86	85	1.2	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 202406, QC Sample No: BB94923 (BB95363)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	116		102	114	11.1	70 - 130	30	
1,1,1-Trichloroethane	ND	108		103	106	2.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	96		105	95	10.0	70 - 130	30	
1,1,2-Trichloroethane	ND	114		93	101	8.2	70 - 130	30	
1,1-Dichloroethane	ND	106		100	100	0.0	70 - 130	30	
1,1-Dichloroethene	ND	98		96	99	3.1	70 - 130	30	
1,1-Dichloropropene	ND	103		96	103	7.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	92		<40	99	NC	70 - 130	30	m
1,2,3-Trichloropropane	ND	109		118	90	26.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	76		40	95	81.5	70 - 130	30	m,r
1,2,4-Trimethylbenzene	ND	93		56	99	55.5	70 - 130	30	m,r
1,2-Dibromo-3-chloropropane	ND	116		102	106	3.8	70 - 130	30	
1,2-Dibromoethane	ND	113		88	102	14.7	70 - 130	30	
1,2-Dichlorobenzene	ND	92		78	98	22.7	70 - 130	30	
1,2-Dichloroethane	ND	109		95	101	6.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloropropane	ND	109			96	104	8.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	96			76	99	26.3	70 - 130	30	
1,3-Dichlorobenzene	ND	86			79	97	20.5	70 - 130	30	
1,3-Dichloropropane	ND	110			98	101	3.0	70 - 130	30	
1,4-Dichlorobenzene	ND	85			77	96	22.0	70 - 130	30	
2,2-Dichloropropane	ND	101			103	106	2.9	70 - 130	30	
2-Chlorotoluene	ND	95			97	100	3.0	70 - 130	30	
2-Hexanone	ND	61			45	64	34.9	70 - 130	30	I,m,r
2-Isopropyltoluene	ND	91			79	104	27.3	70 - 130	30	
4-Chlorotoluene	ND	86			90	99	9.5	70 - 130	30	
4-Methyl-2-pentanone	ND	93			62	93	40.0	70 - 130	30	m,r
Acetone	ND	63			57	67	16.1	70 - 130	30	I,m
Acrylonitrile	ND	102			94	100	6.2	70 - 130	30	
Benzene	ND	105			95	102	7.1	70 - 130	30	
Bromobenzene	ND	102			98	102	4.0	70 - 130	30	
Bromochloromethane	ND	107			95	99	4.1	70 - 130	30	
Bromodichloromethane	ND	109			96	107	10.8	70 - 130	30	
Bromoform	ND	123			102	124	19.5	70 - 130	30	
Bromomethane	ND	86			72	98	30.6	70 - 130	30	r
Carbon Disulfide	ND	86			75	99	27.6	70 - 130	30	
Carbon tetrachloride	ND	111			110	116	5.3	70 - 130	30	
Chlorobenzene	ND	99			87	100	13.9	70 - 130	30	
Chloroethane	ND	95			101	101	0.0	70 - 130	30	
Chloroform	ND	107			98	101	3.0	70 - 130	30	
Chloromethane	ND	87			89	93	4.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	106			94	100	6.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	100			83	103	21.5	70 - 130	30	
Dibromochloromethane	ND	115			100	112	11.3	70 - 130	30	
Dibromomethane	ND	112			93	103	10.2	70 - 130	30	
Dichlorodifluoromethane	ND	74			94	85	10.1	70 - 130	30	
Ethylbenzene	ND	99			88	100	12.8	70 - 130	30	
Hexachlorobutadiene	ND	93			54	107	65.8	70 - 130	30	m,r
Isopropylbenzene	ND	97			105	102	2.9	70 - 130	30	
m&p-Xylene	ND	96			81	100	21.0	70 - 130	30	
Methyl ethyl ketone	ND	56			61	66	7.9	70 - 130	30	I,m
Methyl t-butyl ether (MTBE)	ND	119			97	99	2.0	70 - 130	30	
Methylene chloride	ND	100			94	99	5.2	70 - 130	30	
Naphthalene	ND	110			<40	103	NC	70 - 130	30	m
n-Butylbenzene	ND	84			70	98	33.3	70 - 130	30	r
n-Propylbenzene	ND	90			97	101	4.0	70 - 130	30	
o-Xylene	ND	96			84	102	19.4	70 - 130	30	
p-Isopropyltoluene	ND	96			80	100	22.2	70 - 130	30	
sec-Butylbenzene	ND	95			91	101	10.4	70 - 130	30	
Styrene	ND	93			67	102	41.4	70 - 130	30	m,r
tert-Butylbenzene	ND	101			96	104	8.0	70 - 130	30	
Tetrachloroethene	ND	96			95	101	6.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	100			100	98	2.0	70 - 130	30	
Toluene	ND	104			90	102	12.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	106			85	96	12.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	105			82	107	26.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	104			92	127	32.0	70 - 130	30	r
Trichloroethene	ND	112			98	106	7.8	70 - 130	30	
Trichlorofluoromethane	ND	102			99	97	2.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichlorotrifluoroethane	ND	93			105	101	3.9	70 - 130	30
Vinyl chloride	ND	91			92	94	2.2	70 - 130	30
% 1,2-dichlorobenzene-d4	100	101			99	101	2.0	70 - 130	30
% Bromofluorobenzene	99	102			93	101	8.2	70 - 130	30
% Dibromofluoromethane	100	99			103	97	6.0	70 - 130	30
% Toluene-d8	101	98			97	100	3.0	70 - 130	30

Comment:

The LCSD is not reported for this batch.

QA/QC Batch 202253, QC Sample No: BB95049 (BB95363, BB95366)

Chlorinated Herbicides - Solid

2,4,5-T	ND	34	47	32.1	33	36	8.7	40 - 140	30	I,r
2,4,5-TP (Silvex)	ND	49	51	4.0	46	53	14.1	40 - 140	30	
2,4-D	ND	38	45	16.9	35	32	9.0	40 - 140	30	I
2,4-DB	ND	81	69	16.0	61	64	4.8	40 - 140	30	
Dalapon	ND	60	56	6.9	24	61	87.1	40 - 140	30	m,r
Dicamba	ND	70	69	1.4	59	66	11.2	40 - 140	30	
Dichloroprop	ND	63	61	3.2	42	46	9.1	40 - 140	30	
Dinoseb	ND	69	69	0.0	74	80	7.8	40 - 140	30	
% DCAA (Surrogate Rec)	63	58	55	5.3	48	52	8.0	30 - 150	30	

QA/QC Batch 202239, QC Sample No: BB95370 (BB95363, BB95366)

Pesticides - Solid

4,4' -DDD	ND	68	68	0.0	76	92	19.0	40 - 140	30	
4,4' -DDE	ND	69	69	0.0	71	88	21.4	40 - 140	30	
4,4' -DDT	ND	67	67	0.0	72	87	18.9	40 - 140	30	
α-BHC	ND	79	79	0.0	73	88	18.6	40 - 140	30	
α-Chlordane	ND	76	76	0.0	71	86	19.1	40 - 140	30	
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
Aldrin	ND	76	76	0.0	69	84	19.6	40 - 140	30	
β-BHC	ND	75	75	0.0	68	83	19.9	40 - 140	30	
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
δ-BHC	ND	74	74	0.0	68	85	22.2	40 - 140	30	
Dieldrin	ND	77	77	0.0	76	92	19.0	40 - 140	30	
Endosulfan I	ND	74	74	0.0	71	85	17.9	40 - 140	30	
Endosulfan II	ND	68	68	0.0	81	97	18.0	40 - 140	30	
Endosulfan sulfate	ND	71	71	0.0	78	94	18.6	40 - 140	30	
Endrin	ND	73	73	0.0	77	92	17.8	40 - 140	30	
Endrin aldehyde	ND	76	76	0.0	92	111	18.7	40 - 140	30	
Endrin ketone	ND	77	77	0.0	83	99	17.6	40 - 140	30	
γ-BHC	ND	78	78	0.0	73	87	17.5	40 - 140	30	
γ-Chlordane	ND	73	73	0.0	70	85	19.4	40 - 140	30	
Heptachlor	ND	75	75	0.0	74	86	15.0	40 - 140	30	
Heptachlor epoxide	ND	77	77	0.0	72	87	18.9	40 - 140	30	
Methoxychlor	ND	68	68	0.0	71	88	21.4	40 - 140	30	
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
% DCBP	86	79	79	0.0	88	97	9.7	30 - 150	30	
% TCMX	92	86	86	0.0	81	94	14.9	30 - 150	30	

QA/QC Batch 202237, QC Sample No: BB95370 (BB95363, BB95366)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	95			101	113	11.2	40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	99			94	87	7.7	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	84			78	77	1.3	30 - 150	30
% TCMX (Surrogate Rec)	90	82			65	67	3.0	30 - 150	30

Comment:

Due to laboratory extraction error, the LCSD could not be reported.

QA/QC Batch 202241, QC Sample No: BB95370 (BB95363, BB95364, BB95365, BB95366)

Semivolatiles - Solid

1,2,4,5-Tetrachlorobenzene	ND	70	74	5.6	75	77	2.6	30 - 130	30	
1,2,4-Trichlorobenzene	ND	67	73	8.6	70	72	2.8	30 - 130	30	
1,2-Dichlorobenzene	ND	67	73	8.6	69	69	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	66	59	11.2	68	68	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	67	72	7.2	68	70	2.9	30 - 130	30	
2,4,5-Trichlorophenol	ND	74	78	5.3	74	74	0.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	76	78	2.6	79	81	2.5	30 - 130	30	
2,4-Dichlorophenol	ND	73	78	6.6	76	78	2.6	30 - 130	30	
2,4-Dimethylphenol	ND	59	61	3.3	62	65	4.7	30 - 130	30	
2,4-Dinitrophenol	ND	<5	<5	NC	<5	<5	NC	30 - 130	30	I,m
2,4-Dinitrotoluene	ND	77	81	5.1	71	68	4.3	30 - 130	30	
2,6-Dinitrotoluene	ND	77	80	3.8	73	73	0.0	30 - 130	30	
2-Chloronaphthalene	ND	71	76	6.8	72	73	1.4	30 - 130	30	
2-Chlorophenol	ND	71	77	8.1	71	72	1.4	30 - 130	30	
2-Methylnaphthalene	ND	69	73	5.6	72	74	2.7	30 - 130	30	
2-Methylphenol (o-cresol)	ND	71	73	2.8	76	77	1.3	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	137	133	3.0	30 - 130	30	I,m
2-Nitrophenol	ND	70	70	0.0	65	69	6.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	69	73	5.6	67	65	3.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	I,m
3-Nitroaniline	ND	122	135	10.1	99	94	5.2	30 - 130	30	I
4,6-Dinitro-2-methylphenol	ND	33	20	49.1	4.6	2.2	70.6	30 - 130	30	I,m,r
4-Bromophenyl phenyl ether	ND	76	80	5.1	74	77	4.0	30 - 130	30	
4-Chloro-3-methylphenol	ND	77	79	2.6	76	78	2.6	30 - 130	30	
4-Chloroaniline	ND	74	85	13.8	57	57	0.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	72	76	5.4	73	74	1.4	30 - 130	30	
4-Nitroaniline	ND	80	83	3.7	73	73	0.0	30 - 130	30	
4-Nitrophenol	ND	72	75	4.1	62	54	13.8	30 - 130	30	
Acenaphthene	ND	75	79	5.2	74	76	2.7	30 - 130	30	
Acenaphthylene	ND	73	77	5.3	77	78	1.3	30 - 130	30	
Acetophenone	ND	69	72	4.3	68	67	1.5	30 - 130	30	
Aniline	ND	91	99	8.4	73	62	16.3	30 - 130	30	
Anthracene	ND	75	79	5.2	75	76	1.3	30 - 130	30	
Azobenzene	ND	72	76	5.4	67	66	1.5	30 - 130	30	
Benz(a)anthracene	ND	77	84	8.7	74	78	5.3	30 - 130	30	
Benzidine	ND	62	78	22.9	17	16	6.1	30 - 130	30	m
Benzo(a)pyrene	ND	72	77	6.7	65	68	4.5	30 - 130	30	
Benzo(b)fluoranthene	ND	79	81	2.5	72	87	18.9	30 - 130	30	
Benzo(ghi)perylene	ND	75	89	17.1	56	36	43.5	30 - 130	30	r
Benzo(k)fluoranthene	ND	75	82	8.9	69	82	17.2	30 - 130	30	

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	76	82	7.6	79	83	4.9	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	73	77	5.3	69	70	1.4	30 - 130	30	
Bis(2-chloroethyl)ether	ND	69	73	5.6	74	80	7.8	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	68	72	5.7	63	62	1.6	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	77	83	7.5	80	84	4.9	30 - 130	30	
Carbazole	ND	88	93	5.5	84	83	1.2	30 - 130	30	
Chrysene	ND	74	80	7.8	70	70	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	75	85	12.5	65	50	26.1	30 - 130	30	
Dibenzofuran	ND	73	78	6.6	74	74	0.0	30 - 130	30	
Diethyl phthalate	ND	76	80	5.1	76	76	0.0	30 - 130	30	
Dimethylphthalate	ND	75	80	6.5	74	75	1.3	30 - 130	30	
Di-n-butylphthalate	ND	76	82	7.6	75	76	1.3	30 - 130	30	
Di-n-octylphthalate	ND	80	85	6.1	80	83	3.7	30 - 130	30	
Fluoranthene	ND	75	79	5.2	63	64	1.6	30 - 130	30	
Fluorene	ND	72	76	5.4	73	75	2.7	30 - 130	30	
Hexachlorobenzene	ND	75	80	6.5	75	75	0.0	30 - 130	30	
Hexachlorobutadiene	ND	69	75	8.3	75	77	2.6	30 - 130	30	
Hexachlorocyclopentadiene	ND	77	85	9.9	8.7	4.4	65.6	30 - 130	30	m,r
Hexachloroethane	ND	68	74	8.5	57	50	13.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	74	86	15.0	67	50	29.1	30 - 130	30	
Isophorone	ND	72	77	6.7	70	71	1.4	30 - 130	30	
Naphthalene	ND	69	73	5.6	71	72	1.4	30 - 130	30	
Nitrobenzene	ND	73	77	5.3	70	71	1.4	30 - 130	30	
N-Nitrosodimethylamine	ND	62	67	7.8	57	57	0.0	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	69	69	0.0	63	63	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	83	89	7.0	83	83	0.0	30 - 130	30	
Pentachloronitrobenzene	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
Pentachlorophenol	ND	52	53	1.9	58	58	0.0	30 - 130	30	
Phenanthrene	ND	75	80	6.5	70	72	2.8	30 - 130	30	
Phenol	ND	69	73	5.6	68	67	1.5	30 - 130	30	
Pyrene	ND	76	81	6.4	63	63	0.0	30 - 130	30	
Pyridine	ND	53	64	18.8	51	51	0.0	30 - 130	30	
% 2,4,6-Tribromophenol	77	77	79	2.6	73	73	0.0	15 - 130	30	
% 2-Fluorobiphenyl	68	70	73	4.2	69	71	2.9	30 - 130	30	
% 2-Fluorophenol	66	66	69	4.4	61	64	4.8	15 - 130	30	
% Nitrobenzene-d5	70	72	75	4.1	69	69	0.0	30 - 130	30	
% Phenol-d5	68	68	71	4.3	66	65	1.5	15 - 130	30	
% Terphenyl-d14	77	78	83	6.2	68	69	1.5	30 - 130	30	

QA/QC Batch 202503, QC Sample No: BB95386 (BB95364, BB95365, BB95366)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	133	131	1.5	127	128	0.8	70 - 130	30	l
1,1,1-Trichloroethane	ND	115	117	1.7	115	118	2.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	101	98	3.0	104	109	4.7	70 - 130	30	
1,1,2-Trichloroethane	ND	115	110	4.4	113	116	2.6	70 - 130	30	
1,1-Dichloroethane	ND	107	106	0.9	110	110	0.0	70 - 130	30	
1,1-Dichloroethene	ND	98	101	3.0	110	105	4.7	70 - 130	30	
1,1-Dichloropropene	ND	113	118	4.3	120	122	1.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	104	112	7.4	129	117	9.8	70 - 130	30	
1,2,3-Trichloropropane	ND	105	109	3.7	96	93	3.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	99	106	6.8	131	118	10.4	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	110	111	0.9	117	117	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	113	109	3.6	112	110	1.8	70 - 130	30	

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromoethane	ND	119	112	6.1				70 - 130	30	
1,2-Dichlorobenzene	ND	103	103	0.0	113	113	0.0	70 - 130	30	
1,2-Dichloroethane	ND	109	107	1.9	114	115	0.9	70 - 130	30	
1,2-Dichloropropane	ND	112	113	0.9	115	116	0.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	112	114	1.8	117	117	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	104	106	1.9	116	117	0.9	70 - 130	30	
1,3-Dichloropropane	ND	110	108	1.8	109	110	0.9	70 - 130	30	
1,4-Dichlorobenzene	ND	102	102	0.0	116	116	0.0	70 - 130	30	
2,2-Dichloropropane	ND	118	120	1.7	121	121	0.0	70 - 130	30	
2-Chlorotoluene	ND	109	111	1.8	115	116	0.9	70 - 130	30	
2-Hexanone	ND	78	73	6.6	53	59	10.7	70 - 130	30	m
2-Isopropyltoluene	ND	100	106	5.8	104	102	1.9	70 - 130	30	
4-Chlorotoluene	ND	103	105	1.9	116	117	0.9	70 - 130	30	
4-Methyl-2-pentanone	ND	90	83	8.1	84	88	4.7	70 - 130	30	
Acetone	ND	68	70	2.9	43	45	4.5	70 - 130	30	l,m
Acrylonitrile	ND	91	84	8.0	93	94	1.1	70 - 130	30	
Benzene	ND	113	114	0.9	117	115	1.7	70 - 130	30	
Bromobenzene	ND	111	114	2.7	113	116	2.6	70 - 130	30	
Bromochloromethane	ND	109	105	3.7	113	114	0.9	70 - 130	30	
Bromodichloromethane	ND	120	117	2.5	119	119	0.0	70 - 130	30	
Bromoform	ND	145	139	4.2	135	136	0.7	70 - 130	30	l,m
Bromomethane	ND	90	97	7.5	73	64	13.1	70 - 130	30	m
Carbon Disulfide	ND	88	90	2.2	99	96	3.1	70 - 130	30	
Carbon tetrachloride	ND	138	140	1.4	134	135	0.7	70 - 130	30	l,m
Chlorobenzene	ND	108	108	0.0	115	115	0.0	70 - 130	30	
Chloroethane	ND	99	102	3.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	108	110	1.8	113	111	1.8	70 - 130	30	
Chloromethane	ND	88	89	1.1	100	96	4.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	107	109	1.9	114	109	4.5	70 - 130	30	
cis-1,3-Dichloropropene	ND	113	112	0.9	119	120	0.8	70 - 130	30	
Dibromochloromethane	ND	129	126	2.4	123	125	1.6	70 - 130	30	
Dibromomethane	ND	115	109	5.4	115	116	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	83	84	1.2	91	91	0.0	70 - 130	30	
Ethylbenzene	ND	112	112	0.0	115	117	1.7	70 - 130	30	
Hexachlorobutadiene	ND	110	122	10.3	136	121	11.7	70 - 130	30	m
Isopropylbenzene	ND	112	115	2.6	112	113	0.9	70 - 130	30	
m&p-Xylene	ND	107	110	2.8	117	116	0.9	70 - 130	30	
Methyl ethyl ketone	ND	67	63	6.2	53	61	14.0	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	99	97	2.0	96	99	3.1	70 - 130	30	
Methylene chloride	ND	98	99	1.0	105	102	2.9	70 - 130	30	
Naphthalene	ND	97	117	18.7	130	103	23.2	70 - 130	30	
n-Butylbenzene	ND	103	112	8.4	122	116	5.0	70 - 130	30	
n-Propylbenzene	ND	106	110	3.7	117	116	0.9	70 - 130	30	
o-Xylene	ND	106	107	0.9	111	110	0.9	70 - 130	30	
p-Isopropyltoluene	ND	115	119	3.4	119	118	0.8	70 - 130	30	
sec-Butylbenzene	ND	108	111	2.7	116	116	0.0	70 - 130	30	
Styrene	ND	100	101	1.0	107	110	2.8	70 - 130	30	
tert-Butylbenzene	ND	112	116	3.5	115	116	0.9	70 - 130	30	
Tetrachloroethene	ND	115	118	2.6	120	120	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	90	83	8.1	90	94	4.3	70 - 130	30	
Toluene	ND	114	116	1.7	117	118	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	96	101	5.1	111	101	9.4	70 - 130	30	
trans-1,3-Dichloropropene	ND	118	116	1.7	123	124	0.8	70 - 130	30	

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
trans-1,4-dichloro-2-butene	ND	128	126	1.6	124	128	3.2	70 - 130	30
Trichloroethene	ND	120	120	0.0	119	119	0.0	70 - 130	30
Trichlorofluoromethane	ND	106	106	0.0	<40	<40	NC	70 - 130	30
Trichlorotrifluoroethane	ND	96	100	4.1	98	98	0.0	70 - 130	30
Vinyl chloride	ND	90	96	6.5	94	92	2.2	70 - 130	30
% 1,2-dichlorobenzene-d4	100	99	98	1.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	98	102	103	1.0	104	103	1.0	70 - 130	30
% Dibromofluoromethane	98	103	98	5.0	100	102	2.0	70 - 130	30
% Toluene-d8	101	99	99	0.0	99	100	1.0	70 - 130	30

QA/QC Batch 202514, QC Sample No: BB95418 (BB95367, BB95368)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	121	126	4.0	103	86	18.0	70 - 130	30
1,1,1-Trichloroethane	ND	116	116	0.0	109	103	5.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	103	107	3.8	87	71	20.3	70 - 130	30
1,1,2-Trichloroethane	ND	117	116	0.9	93	82	12.6	70 - 130	30
1,1-Dichloroethane	ND	111	111	0.0	101	95	6.1	70 - 130	30
1,1-Dichloroethene	ND	103	102	1.0	104	97	7.0	70 - 130	30
1,1-Dichloropropene	ND	108	114	5.4	102	95	7.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	98	95	3.1	41	<40	NC	70 - 130	30
1,2,3-Trichloropropane	ND	98	123	22.6	80	79	1.3	70 - 130	30
1,2,4-Trichlorobenzene	ND	91	89	2.2	44	<40	NC	70 - 130	30
1,2,4-Trimethylbenzene	ND	105	106	0.9	82	63	26.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	111	117	5.3	83	64	25.9	70 - 130	30
1,2-Dibromoethane	ND	112	113	0.9	90	77	15.6	70 - 130	30
1,2-Dichlorobenzene	ND	101	102	1.0	65	45	36.4	70 - 130	30
1,2-Dichloroethane	ND	112	112	0.0	95	86	9.9	70 - 130	30
1,2-Dichloropropane	ND	115	115	0.0	99	89	10.6	70 - 130	30
1,3,5-Trimethylbenzene	ND	108	110	1.8	87	69	23.1	70 - 130	30
1,3-Dichlorobenzene	ND	100	103	3.0	69	50	31.9	70 - 130	30
1,3-Dichloropropane	ND	111	113	1.8	91	80	12.9	70 - 130	30
1,4-Dichlorobenzene	ND	97	98	1.0	68	48	34.5	70 - 130	30
2,2-Dichloropropane	ND	119	118	0.8	111	105	5.6	70 - 130	30
2-Chlorotoluene	ND	107	109	1.9	84	66	24.0	70 - 130	30
2-Hexanone	ND	86	88	2.3	44	<40	NC	70 - 130	30
2-Isopropyltoluene	ND	99	98	1.0	76	57	28.6	70 - 130	30
4-Chlorotoluene	ND	99	102	3.0	80	61	27.0	70 - 130	30
4-Methyl-2-pentanone	ND	93	97	4.2	76	72	5.4	70 - 130	30
Acetone	ND	90	79	13.0	40	<40	NC	70 - 130	30
Acrylonitrile	ND	102	103	1.0	77	75	2.6	70 - 130	30
Benzene	ND	112	112	0.0	101	90	11.5	70 - 130	30
Bromobenzene	ND	111	113	1.8	81	63	25.0	70 - 130	30
Bromochloromethane	ND	106	111	4.6	93	87	6.7	70 - 130	30
Bromodichloromethane	ND	114	117	2.6	98	87	11.9	70 - 130	30
Bromoform	ND	128	137	6.8	101	84	18.4	70 - 130	30
Bromomethane	ND	99	94	5.2	97	89	8.6	70 - 130	30
Carbon Disulfide	ND	93	92	1.1	86	83	3.6	70 - 130	30
Carbon tetrachloride	ND	118	125	5.8	119	113	5.2	70 - 130	30
Chlorobenzene	ND	106	106	0.0	87	72	18.9	70 - 130	30
Chloroethane	ND	107	105	1.9	107	100	6.8	70 - 130	30
Chloroform	ND	114	112	1.8	99	90	9.5	70 - 130	30
Chloromethane	ND	95	95	0.0	96	93	3.2	70 - 130	30
cis-1,2-Dichloroethene	ND	111	110	0.9	96	86	11.0	70 - 130	30

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	110	112	1.8	91	79	14.1	70 - 130	30
Dibromochloromethane	ND	118	125	5.8	98	83	16.6	70 - 130	30
Dibromomethane	ND	111	116	4.4	93	83	11.4	70 - 130	30
Dichlorodifluoromethane	ND	86	87	1.2	101	99	2.0	70 - 130	30
Ethylbenzene	ND	108	109	0.9	93	80	15.0	70 - 130	30
Hexachlorobutadiene	ND	102	99	3.0	64	41	43.8	70 - 130	30 m,r
Isopropylbenzene	ND	108	110	1.8	97	80	19.2	70 - 130	30
m&p-Xylene	ND	106	106	0.0	91	77	16.7	70 - 130	30
Methyl ethyl ketone	ND	83	82	1.2	43	<40	NC	70 - 130	30 m
Methyl t-butyl ether (MTBE)	ND	99	98	1.0	89	77	14.5	70 - 130	30
Methylene chloride	ND	107	100	6.8	92	80	14.0	70 - 130	30
Naphthalene	ND	101	95	6.1	60	<40	NC	70 - 130	30 m
n-Butylbenzene	ND	102	99	3.0	78	55	34.6	70 - 130	30 m,r
n-Propylbenzene	ND	101	104	2.9	92	74	21.7	70 - 130	30
o-Xylene	ND	103	104	1.0	84	71	16.8	70 - 130	30
p-Isopropyltoluene	ND	109	110	0.9	85	66	25.2	70 - 130	30 m
sec-Butylbenzene	ND	105	106	0.9	89	70	23.9	70 - 130	30
Styrene	ND	102	102	0.0	71	53	29.0	70 - 130	30 m
tert-Butylbenzene	ND	109	110	0.9	94	75	22.5	70 - 130	30
Tetrachloroethene	ND	105	109	3.7	99	89	10.6	70 - 130	30
Tetrahydrofuran (THF)	ND	101	104	2.9	86	81	6.0	70 - 130	30
Toluene	ND	111	111	0.0	97	86	12.0	70 - 130	30
trans-1,2-Dichloroethene	ND	112	97	14.4	106	86	20.8	70 - 130	30
trans-1,3-Dichloropropene	ND	116	116	0.0	90	78	14.3	70 - 130	30
trans-1,4-dichloro-2-butene	ND	125	122	2.4	89	66	29.7	70 - 130	30 m
Trichloroethene	ND	113	115	1.8	99	90	9.5	70 - 130	30
Trichlorofluoromethane	ND	106	106	0.0	103	100	3.0	70 - 130	30
Trichlorotrifluoroethane	ND	106	101	4.8	99	95	4.1	70 - 130	30
Vinyl chloride	ND	100	97	3.0	101	96	5.1	70 - 130	30
% 1,2-dichlorobenzene-d4	101	99	100	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	100	101	100	1.0	99	101	2.0	70 - 130	30
% Dibromofluoromethane	103	97	101	4.0	96	103	7.0	70 - 130	30
% Toluene-d8	104	101	100	1.0	100	99	1.0	70 - 130	30

QA/QC Batch 202388, QC Sample No: BB95858 (BB95362)

Semivolatiles - Water

1,2,4,5-Tetrachlorobenzene	ND	88	86	2.3				30 - 130	20
1,2,4-Trichlorobenzene	ND	79	79	0.0				30 - 130	20
1,2-Dichlorobenzene	ND	77	77	0.0				30 - 130	20
1,3-Dichlorobenzene	ND	75	76	1.3				30 - 130	20
1,4-Dichlorobenzene	ND	78	78	0.0				30 - 130	20
2,4,5-Trichlorophenol	ND	89	89	0.0				30 - 130	20
2,4,6-Trichlorophenol	ND	93	94	1.1				30 - 130	20
2,4-Dichlorophenol	ND	86	85	1.2				30 - 130	20
2,4-Dimethylphenol	ND	47	48	2.1				30 - 130	20
2,4-Dinitrophenol	ND	80	78	2.5				30 - 130	20
2,4-Dinitrotoluene	ND	89	88	1.1				30 - 130	20
2,6-Dinitrotoluene	ND	84	86	2.4				30 - 130	20
2-Chloronaphthalene	ND	86	84	2.4				30 - 130	20
2-Chlorophenol	ND	75	74	1.3				30 - 130	20
2-Methylnaphthalene	ND	82	81	1.2				30 - 130	20
2-Methylphenol (o-cresol)	ND	65	65	0.0				30 - 130	20
2-Nitroaniline	ND	61	60	1.7				30 - 130	20

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Nitrophenol	ND	84	84	0.0				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	74	74	0.0				30 - 130	20
3,3'-Dichlorobenzidine	ND	N/A	N/A	NC				30 - 130	20
3-Nitroaniline	ND	<5	36	NC				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	100	104	3.9				30 - 130	20
4-Bromophenyl phenyl ether	ND	92	90	2.2				30 - 130	20
4-Chloro-3-methylphenol	ND	84	83	1.2				30 - 130	20
4-Chloroaniline	ND	<5	<5	NC				30 - 130	20
4-Chlorophenyl phenyl ether	ND	95	96	1.0				30 - 130	20
4-Nitroaniline	ND	58	59	1.7				30 - 130	20
4-Nitrophenol	ND	85	79	7.3				30 - 130	20
Acenaphthene	ND	86	84	2.4				30 - 130	20
Acenaphthylene	ND	45	45	0.0				30 - 130	20
Acetophenone	ND	82	83	1.2				30 - 130	20
Aniline	ND	N/A	N/A	NC				30 - 130	20
Anthracene	ND	87	85	2.3				30 - 130	20
Azobenzene	ND	66	65	1.5				30 - 130	20
Benz(a)anthracene	ND	86	85	1.2				30 - 130	20
Benzidine	ND	N/A	N/A	NC				30 - 130	20
Benzo(a)pyrene	ND	78	75	3.9				30 - 130	20
Benzo(b)fluoranthene	ND	105	99	5.9				30 - 130	20
Benzo(ghi)perylene	ND	103	101	2.0				30 - 130	20
Benzo(k)fluoranthene	ND	104	103	1.0				30 - 130	20
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20
Benzyl butyl phthalate	ND	49	49	0.0				30 - 130	20
Bis(2-chloroethoxy)methane	ND	36	36	0.0				30 - 130	20
Bis(2-chloroethyl)ether	ND	73	70	4.2				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	66	66	0.0				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	91	87	4.5				30 - 130	20
Carbazole	ND	62	62	0.0				30 - 130	20
Chrysene	ND	87	85	2.3				30 - 130	20
Dibenz(a,h)anthracene	ND	116	111	4.4				30 - 130	20
Dibenzofuran	ND	89	90	1.1				30 - 130	20
Diethyl phthalate	ND	89	89	0.0				30 - 130	20
Dimethylphthalate	ND	87	87	0.0				30 - 130	20
Di-n-butylphthalate	ND	95	94	1.1				30 - 130	20
Di-n-octylphthalate	ND	87	86	1.2				30 - 130	20
Fluoranthene	ND	90	90	0.0				30 - 130	20
Fluorene	ND	93	93	0.0				30 - 130	20
Hexachlorobenzene	ND	93	93	0.0				30 - 130	20
Hexachlorobutadiene	ND	86	86	0.0				30 - 130	20
Hexachlorocyclopentadiene	ND	77	77	0.0				30 - 130	20
Hexachloroethane	ND	79	77	2.6				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	106	103	2.9				30 - 130	20
Isophorone	ND	80	79	1.3				30 - 130	20
Naphthalene	ND	86	85	1.2				30 - 130	20
Nitrobenzene	ND	80	78	2.5				30 - 130	20
N-Nitrosodimethylamine	ND	46	47	2.2				30 - 130	20
N-Nitrosodi-n-propylamine	ND	79	79	0.0				30 - 130	20
N-Nitrosodiphenylamine	ND	52	49	5.9				30 - 130	20
Pentachloronitrobenzene	ND	>150	>150	NC				30 - 130	20
Pentachlorophenol	ND	88	84	4.7				30 - 130	20
Phenanthrene	ND	94	93	1.1				30 - 130	20

QA/QC Data

SDG I.D.: GBB95362

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenol	ND	69	69	0.0				30 - 130	20
Pyrene	ND	82	80	2.5				30 - 130	20
Pyridine	ND	<5	<5	NC				30 - 130	20
% 2,4,6-Tribromophenol	94	85	87	2.3				15 - 130	20
% 2-Fluorobiphenyl	69	73	73	0.0				30 - 130	20
% 2-Fluorophenol	80	60	61	1.7				15 - 130	20
% Nitrobenzene-d5	71	68	69	1.5				30 - 130	20
% Phenol-d5	79	34	33	3.0				15 - 130	20
% Terphenyl-d14	95	91	88	3.4				30 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

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

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

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

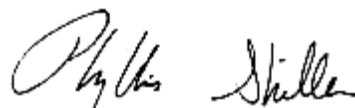
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
June 25, 2012

Sample Criteria Exceedences Report

Requested Criteria: 375NR, 375RS

GBB95362

SampNo	LocCode	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BB95364	GALLI-ENG	BA-SM	Barium	NY / 375-6.8 Metals / Commercial	463	0.48	400	400	mg/Kg
BB95364	GALLI-ENG	BA-SM	Barium	NY / 375-6.8 Metals / Residential	463	0.48	350	350	mg/Kg
BB95365	GALLI-ENG	\$8260SMR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	390	210	210	ug/Kg
BB95365	GALLI-ENG	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1900	360	1000	1000	ug/Kg
BB95365	GALLI-ENG	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1900	360	1000	1000	ug/Kg
BB95365	GALLI-ENG	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2000	360	1000	1000	ug/Kg
BB95365	GALLI-ENG	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Commercial	1800	360	1000	1000	ug/Kg
BB95365	GALLI-ENG	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1800	360	1000	1000	ug/Kg
BB95365	GALLI-ENG	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	770	360	500	500	ug/Kg
BB95365	GALLI-ENG	\$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	360	330	330	ug/Kg
BB95366	GALLI-ENG	\$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	380	330	330	ug/Kg
BB95366	GALLI-ENG	AS-SM	Arsenic	NY / 375-6.8 Metals / Commercial	18.2	1.1	16	16	mg/Kg
BB95366	GALLI-ENG	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	18.2	1.1	16	16	mg/Kg
BB95366	GALLI-ENG	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.25	0.11	0.81	0.81	mg/Kg
BB95367	GALLI-ENG	\$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg

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



Wednesday, June 27, 2012

Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST STREET
Sample ID#s: BB93970 - BB93978, BB94099

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93970

Project ID: 145 WEST STREET

Client ID: WSI 1 0-15

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	06/08/12		LK	SW6010
Aluminum	5930 N	38	mg/Kg	06/07/12		LK	SW6010
Arsenic	1.60	0.77	mg/Kg	06/08/12		LK	SW6010
Barium	53.9	0.77	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.243 B	0.31	mg/Kg	06/08/12		LK	SW6010
Calcium	715 N	3.8	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	06/08/12		LK	SW6010
Cobalt	4.38	0.38	mg/Kg	06/08/12		LK	SW6010
Chromium	10.1	0.38	mg/Kg	06/08/12		LK	SW6010
Copper	19.6	0.38	mg/kg	06/08/12		EK	SW6010
Iron	12700 N	38	mg/Kg	06/07/12		LK	SW6010
Mercury	0.04 B	0.06	mg/Kg	06/07/12		RS	SW-7471
Potassium	737 N	8	mg/Kg	06/08/12		LK	SW6010
Magnesium	2010 N	3.8	mg/Kg	06/08/12		LK	SW6010
Manganese	115	0.38	mg/Kg	06/08/12		LK	SW6010
Sodium	201 N	8	mg/Kg	06/08/12		LK	SW6010
Nickel	9.88	0.38	mg/Kg	06/08/12		LK	SW6010
Lead	116 N	0.77	mg/Kg	06/08/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/08/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/08/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050
Vanadium	13.8	0.38	mg/Kg	06/08/12		LK	SW6010
Zinc	27.8	0.77	mg/Kg	06/08/12		LK	SW6010
Percent Solid	89		%	06/06/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545
Mercury Digestion	Completed			06/07/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	28	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	06/07/12		R/J	SW8260
Acetone	ND	50	ug/Kg	06/07/12		R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	34	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	2.9 JS	5.6	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/07/12		R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/07/12		R/J	59 - 113 %
% Dibromofluoromethane	102		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	100		%	06/07/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	420	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	260	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	520	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	260	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Chloroaniline	ND	520	ug/Kg	06/07/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270	
4-Nitrophenol	ND	760	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acetophenone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Aniline	ND	760	ug/Kg	06/07/12		DD	SW 8270	LO
Anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Azobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	1
Benz(a)anthracene	220 J	260	ug/Kg	06/07/12		DD	SW 8270	
Benzidine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(a)pyrene	150 J	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(b)fluoranthene	180 J	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzoic acid	ND	760	ug/Kg	06/07/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Carbazole	ND	760	ug/Kg	06/07/12		DD	SW 8270	
Chrysene	190 J	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Fluoranthene	320	260	ug/Kg	06/07/12		DD	SW 8270	
Fluorene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Isophorone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Naphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	760	ug/Kg	06/07/12		DD	SW 8270	
Pentachloronitrobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	1
Pentachlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Phenanthrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Phenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Pyrene	330	260	ug/Kg	06/07/12		DD	SW 8270	
Pyridine	ND	260	ug/Kg	06/07/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	78		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	81		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	84		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	79		%	06/07/12		DD	23 - 120 %
% Phenol-d5	83		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	96		%	06/07/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

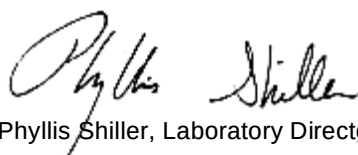
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93971

Project ID: 145 WEST STREET

Client ID: WSH 1 0-15

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	06/08/12		LK	SW6010
Aluminum	5060 N	38	mg/Kg	06/07/12		LK	SW6010
Arsenic	2.93	0.76	mg/Kg	06/08/12		LK	SW6010
Barium	60.9	0.76	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.36	0.31	mg/Kg	06/08/12		LK	SW6010
Calcium	1280 N	3.8	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	06/08/12		LK	SW6010
Cobalt	5.96	0.38	mg/Kg	06/08/12		LK	SW6010
Chromium	11.4	0.38	mg/Kg	06/08/12		LK	SW6010
Copper	17.8	0.38	mg/kg	06/08/12		EK	SW6010
Iron	17300 N	38	mg/Kg	06/07/12		LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	06/07/12		RS	SW-7471
Potassium	1060 N	76	mg/Kg	06/07/12		LK	SW6010
Magnesium	1830 N	3.8	mg/Kg	06/08/12		LK	SW6010
Manganese	115	0.38	mg/Kg	06/08/12		LK	SW6010
Sodium	308 N	8	mg/Kg	06/08/12		LK	SW6010
Nickel	10.9	0.38	mg/Kg	06/08/12		LK	SW6010
Lead	94.2 N	0.76	mg/Kg	06/08/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/08/12		LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/08/12		LK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050
Vanadium	16.5	0.38	mg/Kg	06/08/12		LK	SW6010
Zinc	34.4	0.76	mg/Kg	06/08/12		LK	SW6010
Percent Solid	86		%	06/06/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545
Mercury Digestion	Completed			06/07/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/07/12		R/J	SW8260
Acetone	ND	50	ug/Kg	06/07/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	35	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	2.5 JS	5.8	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	06/07/12		R/J	70 - 121 %
% Bromofluorobenzene	97		%	06/07/12		R/J	59 - 113 %
% Dibromofluoromethane	102		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	101		%	06/07/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	420	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	260	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	530	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	260	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Chloroaniline	ND	530	ug/Kg	06/07/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270	
4-Nitrophenol	ND	770	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acetophenone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Aniline	ND	770	ug/Kg	06/07/12		DD	SW 8270	LO
Anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Azobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	1
Benz(a)anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzidine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzoic acid	ND	770	ug/Kg	06/07/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Carbazole	ND	770	ug/Kg	06/07/12		DD	SW 8270	
Chrysene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Fluorene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Isophorone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Naphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	770	ug/Kg	06/07/12		DD	SW 8270	
Pentachloronitrobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	1
Pentachlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Phenanthrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Phenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Pyridine	ND	260	ug/Kg	06/07/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	80		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	84		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	82		%	06/07/12		DD	23 - 120 %
% Phenol-d5	84		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	99		%	06/07/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

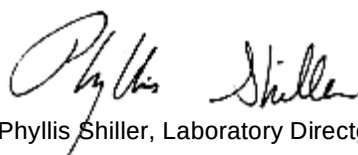
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

<u>Date</u>	<u>Time</u>
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93972

Project ID: 145 WEST STREET

Client ID: WSG 1 0-15

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	06/08/12		LK	SW6010
Aluminum	6150 N	42	mg/Kg	06/07/12		LK	SW6010
Arsenic	5.56	0.84	mg/Kg	06/08/12		LK	SW6010
Barium	210	0.84	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.318 B	0.34	mg/Kg	06/08/12		LK	SW6010
Calcium	3350 N	4.2	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	06/08/12		LK	SW6010
Cobalt	4.93	0.42	mg/Kg	06/08/12		LK	SW6010
Chromium	15.4	0.42	mg/Kg	06/08/12		LK	SW6010
Copper	85.7 N	4.2	mg/kg	06/07/12		EK	SW6010
Iron	15700 N	42	mg/Kg	06/07/12		LK	SW6010
Mercury	0.31	0.08	mg/Kg	06/07/12		RS	SW-7471
Potassium	1030 N	84	mg/Kg	06/07/12		LK	SW6010
Magnesium	2050 N	4.2	mg/Kg	06/08/12		LK	SW6010
Manganese	227	4.2	mg/Kg	06/07/12		LK	SW6010
Sodium	295 N	8	mg/Kg	06/08/12		LK	SW6010
Nickel	10.2	0.42	mg/Kg	06/08/12		LK	SW6010
Lead	551	8.4	mg/Kg	06/07/12		LK	SW6010
Antimony	< 2.1	2.1	mg/Kg	06/08/12		LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/08/12		LK	SW6010
Thallium	< 1.7	1.7	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050
Vanadium	16.5	0.42	mg/Kg	06/08/12		LK	SW6010
Zinc	73.2	0.84	mg/Kg	06/08/12		LK	SW6010
Percent Solid	85		%	06/06/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545
Mercury Digestion	Completed			06/07/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/07/12		R/J	SW8260
Acetone	23 JS	50	ug/Kg	06/07/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	2.8 J	5.9	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	35	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	3.5 JS	5.9	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	1.6 J	5.9	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	1.6 J	5.9	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	06/07/12		R/J	70 - 121 %
% Bromofluorobenzene	94		%	06/07/12		R/J	59 - 113 %
% Dibromofluoromethane	107		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/07/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	430	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	790	270	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	430	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	200 J	270	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	540	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	430	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/07/12		DD	SW 8270	
4-Chloroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/07/12		DD	SW 8270	
4-Nitroaniline	ND	430	ug/Kg	06/07/12		DD	SW 8270	
4-Nitrophenol	ND	780	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthene	1400	270	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthylene	210 J	270	ug/Kg	06/07/12		DD	SW 8270	
Acetophenone	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Aniline	ND	780	ug/Kg	06/07/12		DD	SW 8270	LO
Anthracene	2500	270	ug/Kg	06/07/12		DD	SW 8270	
Azobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270	1
Benz(a)anthracene	2700	270	ug/Kg	06/07/12		DD	SW 8270	
Benzidine	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Benzo(a)pyrene	2200	270	ug/Kg	06/07/12		DD	SW 8270	
Benzo(b)fluoranthene	2600	270	ug/Kg	06/07/12		DD	SW 8270	
Benzo(ghi)perylene	390	270	ug/Kg	06/07/12		DD	SW 8270	
Benzo(k)fluoranthene	910	270	ug/Kg	06/07/12		DD	SW 8270	
Benzoic acid	ND	780	ug/Kg	06/07/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Carbazole	690 J	780	ug/Kg	06/07/12		DD	SW 8270	
Chrysene	2500	270	ug/Kg	06/07/12		DD	SW 8270	
Dibenz(a,h)anthracene	160 J	270	ug/Kg	06/07/12		DD	SW 8270	
Dibenzofuran	650	270	ug/Kg	06/07/12		DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Fluoranthene	5600	270	ug/Kg	06/07/12		DD	SW 8270	
Fluorene	1700	270	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	400	270	ug/Kg	06/07/12		DD	SW 8270	
Isophorone	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Naphthalene	610	270	ug/Kg	06/07/12		DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	270	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	780	ug/Kg	06/07/12		DD	SW 8270	
Pentachloronitrobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270	1
Pentachlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Phenanthrene	10000	270	ug/Kg	06/07/12		DD	SW 8270	
Phenol	ND	270	ug/Kg	06/07/12		DD	SW 8270	
Pyrene	5900	270	ug/Kg	06/07/12		DD	SW 8270	
Pyridine	ND	270	ug/Kg	06/07/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	100		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	83		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	86		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	82		%	06/07/12		DD	23 - 120 %
% Phenol-d5	85		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	89		%	06/07/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

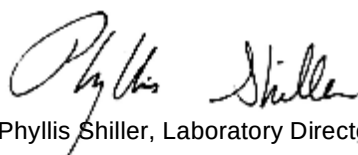
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date

06/01/12 0:00
06/05/12 17:05

Time

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93973

Project ID: 145 WEST STREET

Client ID: WSH1 20-22

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	06/08/12		LK	SW6010
Aluminum	5880 N	39	mg/Kg	06/07/12		LK	SW6010
Arsenic	2.64	0.78	mg/Kg	06/08/12		LK	SW6010
Barium	42.8	0.78	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.62	0.31	mg/Kg	06/08/12		LK	SW6010
Calcium	1480 N	3.9	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	06/08/12		LK	SW6010
Cobalt	9.37	0.39	mg/Kg	06/08/12		LK	SW6010
Chromium	17.2	0.39	mg/Kg	06/08/12		LK	SW6010
Copper	23.1	0.39	mg/kg	06/08/12		EK	SW6010
Iron	23900 N	39	mg/Kg	06/07/12		LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/07/12		RS	SW-7471
Potassium	1210 N	78	mg/Kg	06/07/12		LK	SW6010
Magnesium	2090 N	3.9	mg/Kg	06/08/12		LK	SW6010
Manganese	394	3.9	mg/Kg	06/07/12		LK	SW6010
Sodium	151 N	8	mg/Kg	06/08/12		LK	SW6010
Nickel	13.7	0.39	mg/Kg	06/08/12		LK	SW6010
Lead	7.15 N	0.78	mg/Kg	06/08/12		LK	SW6010
Antimony	< 1.9	1.9	mg/Kg	06/08/12		LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/08/12		LK	SW6010
Thallium	< 1.6	1.6	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050
Vanadium	30.9	0.39	mg/Kg	06/08/12		LK	SW6010
Zinc	42.3	0.78	mg/Kg	06/08/12		LK	SW6010
Percent Solid	87		%	06/06/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545
Mercury Digestion	Completed			06/07/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260 1
4-Chlorotoluene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/07/12		R/J	SW8260
Acetone	7.4 JS	50	ug/Kg	06/07/12		R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	1.1 J	5.7	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260 1P
Isopropylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	34	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	3.0 JS	5.7	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	06/07/12		R/J	70 - 121 %
% Bromofluorobenzene	87		%	06/07/12		R/J	59 - 113 %
% Dibromofluoromethane	101		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	99		%	06/07/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	420	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	260	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	530	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	260	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Chloroaniline	ND	530	ug/Kg	06/07/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
4-Nitroaniline	ND	420	ug/Kg	06/07/12		DD	SW 8270	
4-Nitrophenol	ND	760	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Acetophenone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Aniline	ND	760	ug/Kg	06/07/12		DD	SW 8270	LO
Anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Azobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	1
Benz(a)anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzidine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Benzoic acid	ND	760	ug/Kg	06/07/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Carbazole	ND	760	ug/Kg	06/07/12		DD	SW 8270	
Chrysene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Fluoranthene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Fluorene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Isophorone	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Naphthalene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	760	ug/Kg	06/07/12		DD	SW 8270	
Pentachloronitrobenzene	ND	260	ug/Kg	06/07/12		DD	SW 8270	1
Pentachlorophenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Phenanthrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Phenol	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Pyrene	ND	260	ug/Kg	06/07/12		DD	SW 8270	
Pyridine	ND	260	ug/Kg	06/07/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	90		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	84		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	88		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	85		%	06/07/12		DD	23 - 120 %
% Phenol-d5	87		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	103		%	06/07/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

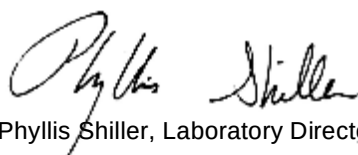
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: 24 Hour
P.O.#:

Custody Information

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

Date	Time
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93974

Project ID: 145 WEST STREET

Client ID: WSC3 TEST PIT

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 1	1	mg/Kg	06/08/12		LK	SW6010
Aluminum	5360 N	51	mg/Kg	06/07/12		LK	SW6010
Arsenic	44.2	1.0	mg/Kg	06/08/12		LK	SW6010
Barium	133	1.0	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.46	0.40	mg/Kg	06/08/12		LK	SW6010
Calcium	8830 N	5.1	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.51	0.51	mg/Kg	06/08/12		LK	SW6010
Cobalt	11.7	0.51	mg/Kg	06/08/12		LK	SW6010
Chromium	15.2	0.51	mg/Kg	06/08/12		LK	SW6010
Copper	203 N	5.1	mg/kg	06/07/12		EK	SW6010
Iron	33700 N	51	mg/Kg	06/07/12		LK	SW6010
Mercury	0.47	0.10	mg/Kg	06/07/12		RS	SW-7471
Potassium	1270 N	100	mg/Kg	06/07/12		LK	SW6010
Magnesium	1210 N	5.1	mg/Kg	06/08/12		LK	SW6010
Manganese	559	5.1	mg/Kg	06/07/12		LK	SW6010
Sodium	1210 N	10	mg/Kg	06/08/12		LK	SW6010
Nickel	23.8	0.51	mg/Kg	06/08/12		LK	SW6010
Lead	450	10	mg/Kg	06/07/12		LK	SW6010
Antimony	23.5	2.5	mg/Kg	06/08/12		LK	SW6010
Selenium	3.1	2.0	mg/Kg	06/08/12		LK	SW6010
Thallium	< 2.0	2.0	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050
Vanadium	19.5	0.51	mg/Kg	06/08/12		LK	SW6010
Zinc	196	1.0	mg/Kg	06/08/12		LK	SW6010
Percent Solid	65		%	06/06/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545
Mercury Digestion	Completed			06/07/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,1,1-Trichloroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,1,2-Trichloroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloropropene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromoethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloropropane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichlorobenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichloropropane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
1,4-Dichlorobenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
2,2-Dichloropropane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
2-Chlorotoluene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
2-Hexanone	ND	38	ug/Kg	06/08/12		R/J	SW8260
2-Isopropyltoluene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260 1
4-Chlorotoluene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
4-Methyl-2-pentanone	ND	38	ug/Kg	06/08/12		R/J	SW8260
Acetone	23 JS	50	ug/Kg	06/08/12		R/J	SW8260
Acrylonitrile	ND	15	ug/Kg	06/08/12		R/J	SW8260
Benzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Bromobenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Bromochloromethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Bromodichloromethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Bromoform	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Bromomethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Carbon Disulfide	1.6 J	7.7	ug/Kg	06/08/12		R/J	SW8260
Carbon tetrachloride	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Chlorobenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Chloroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Chloroform	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Chloromethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Dibromochloromethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Dibromomethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Dichlorodifluoromethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Ethylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Hexachlorobutadiene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260 1P
Isopropylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
m&p-Xylene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	46	ug/Kg	06/08/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	06/08/12		R/J	SW8260
Methylene chloride	3.0 JS	7.7	ug/Kg	06/08/12		R/J	SW8260
Naphthalene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
n-Butylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
n-Propylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
o-Xylene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
p-Isopropyltoluene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
sec-Butylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Styrene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
tert-Butylbenzene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Tetrachloroethene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	06/08/12		R/J	SW8260
Toluene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	06/08/12		R/J	SW8260
Trichloroethene	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Trichlorofluoromethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Trichlorotrifluoroethane	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
Vinyl chloride	ND	7.7	ug/Kg	06/08/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	106		%	06/08/12		R/J	70 - 121 %
% Bromofluorobenzene	89		%	06/08/12		R/J	59 - 113 %
% Dibromofluoromethane	102		%	06/08/12		R/J	70 - 130 %
% Toluene-d8	99		%	06/08/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	350	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	350	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	350	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	350	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	560	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	350	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	350	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	350	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	350	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	350	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	560	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	350	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	700	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	560	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	350	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	350	ug/Kg	06/07/12		DD	SW 8270	
4-Chloroaniline	ND	700	ug/Kg	06/07/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	350	ug/Kg	06/07/12		DD	SW 8270	
4-Nitroaniline	ND	560	ug/Kg	06/07/12		DD	SW 8270	
4-Nitrophenol	ND	1000	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthene	230 J	350	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthylene	170 J	350	ug/Kg	06/07/12		DD	SW 8270	
Acetophenone	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Aniline	ND	1000	ug/Kg	06/07/12		DD	SW 8270	LO
Anthracene	700	350	ug/Kg	06/07/12		DD	SW 8270	
Azobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270	1
Benz(a)anthracene	2300	350	ug/Kg	06/07/12		DD	SW 8270	
Benzidine	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Benzo(a)pyrene	2000	350	ug/Kg	06/07/12		DD	SW 8270	
Benzo(b)fluoranthene	2400	350	ug/Kg	06/07/12		DD	SW 8270	
Benzo(ghi)perylene	850	350	ug/Kg	06/07/12		DD	SW 8270	
Benzo(k)fluoranthene	690	350	ug/Kg	06/07/12		DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	06/07/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Carbazole	410 J	1000	ug/Kg	06/07/12		DD	SW 8270	
Chrysene	1800	350	ug/Kg	06/07/12		DD	SW 8270	
Dibenz(a,h)anthracene	250 J	350	ug/Kg	06/07/12		DD	SW 8270	
Dibenzofuran	150 J	350	ug/Kg	06/07/12		DD	SW 8270	
Diethyl phthalate	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Dimethylphthalate	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Di-n-butylphthalate	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Di-n-octylphthalate	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Fluoranthene	4600	350	ug/Kg	06/07/12		DD	SW 8270	
Fluorene	230 J	350	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobutadiene	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Hexachloroethane	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	700	350	ug/Kg	06/07/12		DD	SW 8270	
Isophorone	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Naphthalene	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Nitrobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	350	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	350	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	1000	ug/Kg	06/07/12		DD	SW 8270	
Pentachloronitrobenzene	ND	350	ug/Kg	06/07/12		DD	SW 8270	1
Pentachlorophenol	ND	350	ug/Kg	06/07/12		DD	SW 8270	
Phenanthrene	3200	350	ug/Kg	06/07/12		DD	SW 8270	
Phenol	ND	330	ug/Kg	06/07/12		DD	SW 8270	
Pyrene	4500	350	ug/Kg	06/07/12		DD	SW 8270	
Pyridine	ND	350	ug/Kg	06/07/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	75		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	77		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	80		%	06/07/12		DD	23 - 120 %
% Phenol-d5	79		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	84		%	06/07/12		DD	18 - 137 %

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

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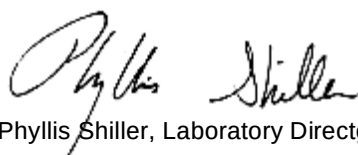
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

<u>Date</u>	<u>Time</u>
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93975

Project ID: 145 WEST STREET

Client ID: WSE3 TEST PIT

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/08/12		LK	SW6010
Aluminum	8260 N	41	mg/Kg	06/07/12		LK	SW6010
Arsenic	7.22	0.82	mg/Kg	06/08/12		LK	SW6010
Barium	29.5	0.82	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.41	0.33	mg/Kg	06/08/12		LK	SW6010
Calcium	802 N	4.1	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	06/08/12		LK	SW6010
Cobalt	7.05	0.41	mg/Kg	06/08/12		LK	SW6010
Chromium	12.6	0.41	mg/Kg	06/08/12		LK	SW6010
Copper	25.6	0.41	mg/kg	06/08/12		EK	SW6010
Iron	18500 N	41	mg/Kg	06/07/12		LK	SW6010
Mercury	0.12	0.09	mg/Kg	06/07/12		RS	SW-7471
Potassium	1110 N	82	mg/Kg	06/07/12		LK	SW6010
Magnesium	3240 N	4.1	mg/Kg	06/08/12		LK	SW6010
Manganese	377	4.1	mg/Kg	06/07/12		LK	SW6010
Sodium	291 N	8	mg/Kg	06/08/12		LK	SW6010
Nickel	16.1	0.41	mg/Kg	06/08/12		LK	SW6010
Lead	72.1 N	0.82	mg/Kg	06/08/12		LK	SW6010
Antimony	< 2.0	2.0	mg/Kg	06/08/12		LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/08/12		LK	SW6010
Thallium	< 1.6	1.6	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050
Vanadium	16.8	0.41	mg/Kg	06/08/12		LK	SW6010
Zinc	169	8.2	mg/Kg	06/07/12		LK	SW6010
Percent Solid	84		%	06/06/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545
Mercury Digestion	Completed			06/07/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260 1
4-Chlorotoluene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/07/12		R/J	SW8260
Acetone	9.3 JS	50	ug/Kg	06/07/12		R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260 1P
Isopropylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	36	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	3.8 JS	6.0	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	105		%	06/07/12		R/J	70 - 121 %
% Bromofluorobenzene	94		%	06/07/12		R/J	59 - 113 %
% Dibromofluoromethane	99		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	101		%	06/07/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	430	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	430	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	270	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	540	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	430	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	270	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
4-Chloroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/07/12		DD	SW 8270
4-Nitroaniline	ND	430	ug/Kg	06/07/12		DD	SW 8270
4-Nitrophenol	ND	790	ug/Kg	06/07/12		DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Acetophenone	ND	270	ug/Kg	06/07/12		DD	SW 8270
Aniline	ND	790	ug/Kg	06/07/12		DD	SW 8270
Anthracene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Azobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Benzidine	ND	270	ug/Kg	06/07/12		DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Benzoic acid	ND	790	ug/Kg	06/07/12		DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	270	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/07/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270
Carbazole	ND	790	ug/Kg	06/07/12		DD	SW 8270
Chrysene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	06/07/12		DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/07/12		DD	SW 8270
Fluoranthene	190 J	270	ug/Kg	06/07/12		DD	SW 8270
Fluorene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	06/07/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Isophorone	ND	270	ug/Kg	06/07/12		DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodimethylamine	ND	270	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	790	ug/Kg	06/07/12		DD	SW 8270
Pentachloronitrobenzene	ND	270	ug/Kg	06/07/12		DD	SW 8270
Pentachlorophenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
Phenanthrene	140 J	270	ug/Kg	06/07/12		DD	SW 8270
Phenol	ND	270	ug/Kg	06/07/12		DD	SW 8270
Pyrene	180 J	270	ug/Kg	06/07/12		DD	SW 8270
Pyridine	ND	270	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	79		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	85		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	83		%	06/07/12		DD	23 - 120 %
% Phenol-d5	84		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	93		%	06/07/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

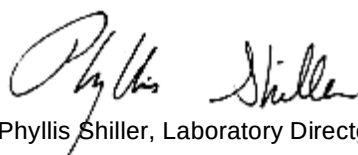
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
06/01/12 0:00
06/05/12 17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93976

Project ID: 145 WEST STREET

Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	06/07/12		LB	E160.3
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	06/07/12		R/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	06/07/12		R/J	SW8260
Acetone	ND	2500	ug/Kg	06/07/12		R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	250	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	250	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Methyl Ethyl Ketone	ND	1500	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	500	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	59 JS	250	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	ND	250	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	250	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	250	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	250	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	250	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	06/07/12		R/J	70 - 121 %
% Bromofluorobenzene	96		%	06/07/12		R/J	59 - 113 %
% Dibromofluoromethane	96		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	99		%	06/07/12		R/J	84 - 138 %

1P

1

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

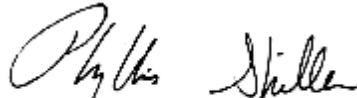
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 27, 2012

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Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: 24 Hour
P.O.#:

Custody Information

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

Date	Time
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93977

Project ID: 145 WEST STREET

Client ID: WS #4 3-15 FT

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	06/13/12		LK	SW6010
Aluminum	8470 N	47	mg/Kg	06/07/12		LK	SW6010
Arsenic	3.92	0.94	mg/Kg	06/08/12		LK	SW6010
Barium	115	0.94	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.56	0.38	mg/Kg	06/08/12		LK	SW6010
Calcium	3160 N	4.7	mg/Kg	06/08/12		LK	SW6010
Cadmium	< 0.47	0.47	mg/Kg	06/08/12		LK	SW6010
Cobalt	30.2	0.47	mg/Kg	06/08/12		LK	SW6010
Chromium	20.1	0.47	mg/Kg	06/08/12		LK	SW6010
Copper	140 N	4.7	mg/kg	06/07/12		EK	SW6010
Iron	21600 N	47	mg/Kg	06/07/12		LK	SW6010
Mercury	2.56	0.09	mg/Kg	06/07/12		RS	SW-7471
Potassium	1700 N	94	mg/Kg	06/07/12		LK	SW6010
Magnesium	3530 N	4.7	mg/Kg	06/08/12		LK	SW6010
Manganese	240	4.7	mg/Kg	06/07/12		LK	SW6010
Sodium	191 N	9	mg/Kg	06/08/12		LK	SW6010
Nickel	22.3	0.47	mg/Kg	06/08/12		LK	SW6010
Lead	245	9.4	mg/Kg	06/07/12		LK	SW6010
Antimony	< 2.3	2.3	mg/Kg	06/08/12		LK	SW6010
Selenium	< 1.9	1.9	mg/Kg	06/08/12		LK	SW6010
Thallium	< 1.9	1.9	mg/Kg	06/08/12		LK	SW6010
Total Metals Digest	Completed			06/12/12		AG	SW846 - 3050
Vanadium	25.0	0.47	mg/Kg	06/08/12		LK	SW6010
Zinc	185	9.4	mg/Kg	06/07/12		LK	SW6010
Percent Solid	74		%	06/06/12		JL	E160.3
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545
Mercury Digestion	Completed			06/07/12		X/X	SW7471

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,1,1-Trichloroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,1,2-Trichloroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethene	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloropropene	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromoethane	ND	340	ug/Kg	06/08/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloropropane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichlorobenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichloropropane	ND	340	ug/Kg	06/08/12		R/J	SW8260
1,4-Dichlorobenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
2,2-Dichloropropane	ND	340	ug/Kg	06/08/12		R/J	SW8260
2-Chlorotoluene	ND	340	ug/Kg	06/08/12		R/J	SW8260
2-Hexanone	ND	1700	ug/Kg	06/08/12		R/J	SW8260
2-Isopropyltoluene	ND	340	ug/Kg	06/08/12		R/J	SW8260 1
4-Chlorotoluene	ND	340	ug/Kg	06/08/12		R/J	SW8260
4-Methyl-2-pentanone	ND	1700	ug/Kg	06/08/12		R/J	SW8260
Acetone	ND	3400	ug/Kg	06/08/12		R/J	SW8260
Acrylonitrile	ND	680	ug/Kg	06/08/12		R/J	SW8260
Benzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Bromobenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Bromochloromethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Bromodichloromethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Bromoform	ND	340	ug/Kg	06/08/12		R/J	SW8260
Bromomethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Carbon Disulfide	ND	340	ug/Kg	06/08/12		R/J	SW8260
Carbon tetrachloride	ND	340	ug/Kg	06/08/12		R/J	SW8260
Chlorobenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Chloroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Chloroform	ND	340	ug/Kg	06/08/12		R/J	SW8260
Chloromethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	340	ug/Kg	06/08/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Dibromochloromethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Dibromomethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Dichlorodifluoromethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Ethylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Hexachlorobutadiene	ND	340	ug/Kg	06/08/12		R/J	SW8260 1P
Isopropylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
m&p-Xylene	ND	340	ug/Kg	06/08/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
Methyl Ethyl Ketone	ND	2000	ug/Kg	06/08/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	680	ug/Kg	06/08/12		R/J	SW8260
Methylene chloride	120 JS	340	ug/Kg	06/08/12		R/J	SW8260
Naphthalene	190 J	340	ug/Kg	06/08/12		R/J	SW8260
n-Butylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
n-Propylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
o-Xylene	ND	340	ug/Kg	06/08/12		R/J	SW8260
p-Isopropyltoluene	90 J	340	ug/Kg	06/08/12		R/J	SW8260
sec-Butylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Styrene	ND	340	ug/Kg	06/08/12		R/J	SW8260
tert-Butylbenzene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Tetrachloroethene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	680	ug/Kg	06/08/12		R/J	SW8260 1
Toluene	ND	340	ug/Kg	06/08/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	340	ug/Kg	06/08/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	340	ug/Kg	06/08/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	680	ug/Kg	06/08/12		R/J	SW8260
Trichloroethene	ND	340	ug/Kg	06/08/12		R/J	SW8260
Trichlorofluoromethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Trichlorotrifluoroethane	ND	340	ug/Kg	06/08/12		R/J	SW8260
Vinyl chloride	ND	340	ug/Kg	06/08/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	06/08/12		R/J	70 - 121 %
% Bromofluorobenzene	101		%	06/08/12		R/J	59 - 113 %
% Dibromofluoromethane	98		%	06/08/12		R/J	70 - 130 %
% Toluene-d8	99		%	06/08/12		R/J	84 - 138 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	310	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	310	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	310	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	310	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	490	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	310	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	310	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	310	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	310	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	310	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	310	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	490	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	310	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	310	ug/Kg	06/07/12		DD	SW 8270 1
3,3'-Dichlorobenzidine	ND	610	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	490	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	310	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	310	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference	
4-Chloro-3-methylphenol	ND	310	ug/Kg	06/07/12		DD	SW 8270	
4-Chloroaniline	ND	610	ug/Kg	06/07/12		DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	06/07/12		DD	SW 8270	
4-Nitroaniline	ND	490	ug/Kg	06/07/12		DD	SW 8270	
4-Nitrophenol	ND	890	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Acenaphthylene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Acetophenone	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Aniline	ND	890	ug/Kg	06/07/12		DD	SW 8270	LO
Anthracene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Azobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270	1
Benz(a)anthracene	150 J	310	ug/Kg	06/07/12		DD	SW 8270	
Benzidine	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Benzo(a)pyrene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Benzo(b)fluoranthene	170 J	310	ug/Kg	06/07/12		DD	SW 8270	
Benzo(ghi)perylene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Benzo(k)fluoranthene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Benzoic acid	ND	890	ug/Kg	06/07/12		DD	SW 8270	LO
Benzyl butyl phthalate	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroethyl)ether	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Carbazole	ND	890	ug/Kg	06/07/12		DD	SW 8270	
Chrysene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Dibenz(a,h)anthracene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Dibenzofuran	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Diethyl phthalate	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Dimethylphthalate	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Di-n-butylphthalate	910	310	ug/Kg	06/07/12		DD	SW 8270	
Di-n-octylphthalate	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Fluoranthene	290 J	310	ug/Kg	06/07/12		DD	SW 8270	
Fluorene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorobutadiene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Hexachlorocyclopentadiene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Hexachloroethane	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Isophorone	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Naphthalene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Nitrobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodimethylamine	ND	310	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	310	ug/Kg	06/07/12		DD	SW 8270	
N-Nitrosodiphenylamine	ND	890	ug/Kg	06/07/12		DD	SW 8270	
Pentachloronitrobenzene	ND	310	ug/Kg	06/07/12		DD	SW 8270	1
Pentachlorophenol	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Phenanthrene	190 J	310	ug/Kg	06/07/12		DD	SW 8270	
Phenol	ND	310	ug/Kg	06/07/12		DD	SW 8270	
Pyrene	260 J	310	ug/Kg	06/07/12		DD	SW 8270	
Pyridine	ND	310	ug/Kg	06/07/12		DD	SW 8270	

Parameter	Result	RL	Units	Date	Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	71		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	74		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	80		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	78		%	06/07/12		DD	23 - 120 %
% Phenol-d5	80		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	91		%	06/07/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

Comments:

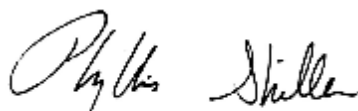
Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
06/01/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB93978

Project ID: 145 WEST STREET

Client ID: WS-G4 3-15 FT

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 1	1	mg/Kg	06/08/12		LK	SW6010
Aluminum	7320 N	51	mg/Kg	06/07/12		LK	SW6010
Arsenic	16.3	1.0	mg/Kg	06/08/12		LK	SW6010
Barium	231	1.0	mg/Kg	06/08/12		LK	SW6010
Beryllium	0.48	0.41	mg/Kg	06/08/12		LK	SW6010
Calcium	34700 N	51	mg/Kg	06/07/12		LK	SW6010
Cadmium	< 0.51	0.51	mg/Kg	06/08/12		LK	SW6010
Cobalt	7.87	0.51	mg/Kg	06/08/12		LK	SW6010
Chromium	14.3	0.51	mg/Kg	06/08/12		LK	SW6010
Copper	90.5 N	5.1	mg/kg	06/07/12		EK	SW6010
Iron	19500 N	51	mg/Kg	06/07/12		LK	SW6010
Mercury	3.31	0.46	mg/Kg	06/08/12		RS	SW-7471
Potassium	952 N	100	mg/Kg	06/07/12		LK	SW6010
Magnesium	1930 N	5.1	mg/Kg	06/08/12		LK	SW6010
Manganese	166	0.51	mg/Kg	06/08/12		LK	SW6010
Sodium	723 N	10	mg/Kg	06/08/12		LK	SW6010
Nickel	16.6	0.51	mg/Kg	06/08/12		LK	SW6010
Lead	436	10	mg/Kg	06/07/12		LK	SW6010
Antimony	3.7	2.6	mg/Kg	06/08/12		LK	SW6010
Selenium	< 2.0	2.0	mg/Kg	06/08/12		LK	SW6010
TCLP Silver	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Barium	1.13	0.10	mg/L	06/15/12		LK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/15/12		LK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/15/12		LK	SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/14/12		RS	SW7470
TCLP Lead	3.16	0.10	mg/L	06/15/12		LK	SW6010
TCLP Selenium	< 0.10	0.10	mg/L	06/15/12		LK	SW6010

Parameter	Result	RL	Units	Date	Time	By	Reference	
Thallium	< 2.0	2.0	mg/Kg	06/08/12		EK	SW6010	
Total Metals Digest	Completed			06/06/12		AG	SW846 - 3050	
TCLP Metals Digestion	Completed			06/14/12		X/X	SW3005	
Vanadium	20.1	0.51	mg/Kg	06/08/12		LK	SW6010	
Zinc	246	10	mg/Kg	06/07/12		LK	SW6010	
Percent Solid	69		%	06/06/12		JL	E160.3	
Corrosivity	Negative	NONE	None	06/13/12		O/EG	SM 2330	1
Flash Point	>200	200	degree F	06/14/12		Y	SW1010	
Ignitability	Passed	140	deg F	06/14/12		Y	SW1010	
pH - Soil	7.35	0.10	pH Units	06/13/12	23:00	O/EG	4500-H B/9045	1
Reactivity Cyanide	< 7.2	7.2	mg/Kg	06/14/12		JL/GD	SW 846-7.3	1
Reactivity Sulfide	< 20	20	mg/Kg	06/14/12		JL/GD	SW846-7.3	1
Reactivity	Negative		Pos/Neg	06/14/12		JL/GD	SW 846-7.3	1
Soil Extraction for SVOA	Completed			06/06/12		JB/F	SW3545	
Mercury Digestion	Completed			06/08/12		X/D	SW7471	
Extraction of NJ QAM-025	Completed			06/13/12		JS/D	3545	
TCLP Digestion Mercury	Completed			06/14/12		X	E1311/7470	
TCLP Herbicides Extraction	Completed			06/15/12		D	SW8150 Mod	
TCLP Extraction for Metals	Completed			06/13/12		x	EPA 1311	
TCLP Extraction for Organics	Completed			06/13/12		x	1311	
TCLP Pesticides Extraction	Completed			06/14/12		L	SW3510	
TCLP Semi-Volatile Extraction	Completed			06/14/12		L	SW3510	
TCLP Extraction Volatiles	Completed			06/13/12		y	EPA 1311	

TPH by GC (QAM-025)

Total Petroleum Hydrocarbon	ND	110	mg/Kg	06/15/12		JRB	QAM-025	1
<u>QA/QC Surrogates</u>								
% Chlorobenzene (surrogate)	44		%	06/15/12		JRB	50 - 150 %	3
% Pentacosane (surrogate)	73		%	06/15/12		JRB	50 - 150 %	

TCLP Herbicides

2,4,5-TP (Silvex)	ND	4.2	ug/L	06/18/12		JRB	SW8151	
2,4-D	ND	4.2	ug/L	06/18/12		JRB	SW8151	
<u>QA/QC Surrogates</u>								
% DCAA	88		%	06/18/12		JRB	30 - 150 %	

TCLP Pesticides

4,4' -DDD	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
4,4' -DDE	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
4,4' -DDT	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
a-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Alachlor	ND	0.05	ug/L	06/18/12		KCA	SW 8081	1
Aldrin	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
b-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Chlordane	ND	0.3	ug/L	06/18/12		KCA	SW 8081	
d-BHC	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Dieldrin	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endosulfan I	ND	0.05	ug/L	06/18/12		KCA	SW 8081	
Endosulfan II	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endosulfan Sulfate	ND	0.1	ug/L	06/18/12		KCA	SW 8081	
Endrin	ND	0.1	ug/L	06/18/12		KCA	SW 8081	

Parameter	Result	RL	Units	Date	Time	By	Reference
Endrin Aldehyde	ND	0.1	ug/L	06/18/12		KCA	SW 8081
g-BHC (Lindane)	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Heptachlor	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Heptachlor epoxide	ND	0.05	ug/L	06/18/12		KCA	SW 8081
Methoxychlor	ND	0.2	ug/L	06/18/12		KCA	SW 8081
Toxaphene	ND	1.0	ug/L	06/18/12		KCA	SW 8081
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	106		%	06/18/12		KCA	30 - 150 %
%TCMX (Surrogate Rec)	76		%	06/18/12		KCA	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1,1-Trichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1,2-Trichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,1-Dichloropropene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260 1
1,2,3-Trichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2,4-Trimethylbenzene	2.6 J	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dibromoethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260 1P
1,2-Dichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,2-Dichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,3,5-Trimethylbenzene	1.6 J	7.2	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,3-Dichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
1,4-Dichlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
2,2-Dichloropropane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
2-Chlorotoluene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
2-Hexanone	ND	36	ug/Kg	06/08/12		R/J	SW8260
2-Isopropyltoluene	3.2 J	7.2	ug/Kg	06/08/12		R/J	SW8260 1
4-Chlorotoluene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
4-Methyl-2-pentanone	ND	36	ug/Kg	06/08/12		R/J	SW8260
Acetone	80 S	72	ug/Kg	06/08/12		R/J	SW8260
Acrylonitrile	ND	14	ug/Kg	06/08/12		R/J	SW8260
Benzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromochloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromodichloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromoform	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Bromomethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Carbon Disulfide	3.4 J	7.2	ug/Kg	06/08/12		R/J	SW8260
Carbon tetrachloride	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Chlorobenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260 B
Chloroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Chloroform	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Chloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
cis-1,2-Dichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Dibromochloromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Dibromomethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Dichlorodifluoromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Ethylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Hexachlorobutadiene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260 1P
Isopropylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
m&p-Xylene	3.6 J	7.2	ug/Kg	06/08/12		R/J	SW8260
Methyl Ethyl Ketone	ND	43	ug/Kg	06/08/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	06/08/12		R/J	SW8260
Methylene chloride	3.1 JS	7.2	ug/Kg	06/08/12		R/J	SW8260
Naphthalene	5.7 J	7.2	ug/Kg	06/08/12		R/J	SW8260
n-Butylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
n-Propylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
o-Xylene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
p-Isopropyltoluene	1.3 J	7.2	ug/Kg	06/08/12		R/J	SW8260
sec-Butylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Styrene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
tert-Butylbenzene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Tetrachloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	06/08/12		R/J	SW8260 1
Toluene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	06/08/12		R/J	SW8260
Trichloroethene	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Trichlorofluoromethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Trichlorotrifluoroethane	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
Vinyl chloride	ND	7.2	ug/Kg	06/08/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	06/08/12		R/J	70 - 121 %
% Bromofluorobenzene	89		%	06/08/12		R/J	59 - 113 %
% Dibromofluoromethane	98		%	06/08/12		R/J	70 - 130 %
% Toluene-d8	97		%	06/08/12		R/J	84 - 138 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
1,2-Dichloroethane	ND	50	ug/L	06/15/12		H/J	SW8260
Benzene	ND	50	ug/L	06/15/12		H/J	SW8260
Carbon tetrachloride	ND	50	ug/L	06/15/12		H/J	SW8260
Chlorobenzene	ND	50	ug/L	06/15/12		H/J	SW8260 B
Chloroform	ND	50	ug/L	06/15/12		H/J	SW8260
Methyl ethyl ketone	ND	50	ug/L	06/15/12		H/J	SW8260
Tetrachloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
Trichloroethene	ND	50	ug/L	06/15/12		H/J	SW8260
Vinyl chloride	ND	50	ug/L	06/15/12		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	06/15/12		H/J	70 - 121 %
% Bromofluorobenzene	92		%	06/15/12		H/J	59 - 113 %
% Dibromofluoromethane	96		%	06/15/12		H/J	70 - 130 %

Parameter	Result	RL	Units	Date	Time	By	Reference
% Toluene-d8	101		%	06/15/12		H/J	84 - 138 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,2,4-Trichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,2-Dichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,3-Dichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
1,4-Dichlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4-Dichlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4-Dimethylphenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrophenol	ND	540	ug/Kg	06/07/12		DD	SW 8270
2,4-Dinitrotoluene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2,6-Dinitrotoluene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Chloronaphthalene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Chlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Methylnaphthalene	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	330	ug/Kg	06/07/12		DD	SW 8270
2-Nitroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270
2-Nitrophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	06/07/12		DD	SW 8270
3,3'-Dichlorobenzidine	ND	670	ug/Kg	06/07/12		DD	SW 8270
3-Nitroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Bromophenyl phenyl ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Chloro-3-methylphenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Chloroaniline	ND	670	ug/Kg	06/07/12		DD	SW 8270
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
4-Nitroaniline	ND	540	ug/Kg	06/07/12		DD	SW 8270
4-Nitrophenol	ND	980	ug/Kg	06/07/12		DD	SW 8270
Acenaphthene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Acenaphthylene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Acetophenone	ND	330	ug/Kg	06/07/12		DD	SW 8270
Aniline	ND	980	ug/Kg	06/07/12		DD	SW 8270
Anthracene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Azobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benz(a)anthracene	320 J	330	ug/Kg	06/07/12		DD	SW 8270
Benzidine	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(a)pyrene	280 J	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(b)fluoranthene	320 J	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(ghi)perylene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benzo(k)fluoranthene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Benzoic acid	ND	980	ug/Kg	06/07/12		DD	SW 8270
Benzyl butyl phthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroethyl)ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	330	ug/Kg	06/07/12		DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Carbazole	ND	980	ug/Kg	06/07/12		DD	SW 8270
Chrysene	260 J	330	ug/Kg	06/07/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Dibenz(a,h)anthracene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Dibenzofuran	ND	330	ug/Kg	06/07/12		DD	SW 8270
Diethyl phthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Dimethylphthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Di-n-butylphthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Di-n-octylphthalate	ND	330	ug/Kg	06/07/12		DD	SW 8270
Fluoranthene	530	330	ug/Kg	06/07/12		DD	SW 8270
Fluorene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachlorobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachlorobutadiene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachlorocyclopentadiene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Hexachloroethane	ND	330	ug/Kg	06/07/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Isophorone	ND	330	ug/Kg	06/07/12		DD	SW 8270
Naphthalene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Nitrobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodimethylamine	ND	330	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodi-n-propylamine	ND	330	ug/Kg	06/07/12		DD	SW 8270
N-Nitrosodiphenylamine	ND	980	ug/Kg	06/07/12		DD	SW 8270
Pentachloronitrobenzene	ND	330	ug/Kg	06/07/12		DD	SW 8270
Pentachlorophenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
Phenanthrene	300 J	330	ug/Kg	06/07/12		DD	SW 8270
Phenol	ND	330	ug/Kg	06/07/12		DD	SW 8270
Pyrene	490	330	ug/Kg	06/07/12		DD	SW 8270
Pyridine	ND	330	ug/Kg	06/07/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	06/07/12		DD	19 - 122 %
% 2-Fluorobiphenyl	76		%	06/07/12		DD	30 - 115 %
% 2-Fluorophenol	84		%	06/07/12		DD	25 - 121 %
% Nitrobenzene-d5	81		%	06/07/12		DD	23 - 120 %
% Phenol-d5	83		%	06/07/12		DD	24 - 113 %
% Terphenyl-d14	95		%	06/07/12		DD	18 - 137 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	06/16/12		DD	SW 8270
2,4,5-Trichlorophenol	ND	83	ug/L	06/16/12		DD	SW 8270
2,4,6-Trichlorophenol	ND	83	ug/L	06/16/12		DD	SW 8270
2,4-Dinitrotoluene	ND	83	ug/L	06/16/12		DD	SW 8270
2-Methylphenol (o-cresol)	ND	83	ug/L	06/16/12		DD	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	06/16/12		DD	SW 8270
Hexachlorobenzene	ND	83	ug/L	06/16/12		DD	SW 8270
Hexachlorobutadiene	ND	83	ug/L	06/16/12		DD	SW 8270
Hexachloroethane	ND	83	ug/L	06/16/12		DD	SW 8270
Nitrobenzene	ND	83	ug/L	06/16/12		DD	SW 8270
Pentachlorophenol	ND	83	ug/L	06/16/12		DD	SW 8270
Pyridine	ND	83	ug/L	06/16/12		DD	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	79		%	06/16/12		DD	19 - 122 %
% 2-Fluorobiphenyl	61		%	06/16/12		DD	30 - 115 %
% 2-Fluorophenol	59		%	06/16/12		DD	25 - 121 %
% Nitrobenzene-d5	67		%	06/16/12		DD	23 - 120 %

Parameter	Result	RL	Units	Date	Time	By	Reference
% Phenol-d5	46		%	06/16/12		DD	24 - 113 %
% Terphenyl-d14	78		%	06/16/12		DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

3 = This parameter exceeds laboratory specified limits.

B = Present in blank, no bias suspected.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.

Corrosivity is based solely on the pH analysis performed above.

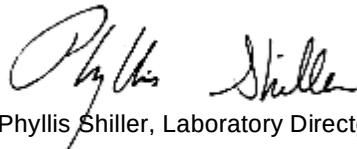
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 27, 2012

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



Analysis Report

June 27, 2012

FOR: Attn: Mr. Ken Brooks
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date Time
06/01/12 0:00
06/05/12 17:05

Laboratory Data

SDG ID: GBB93970
Phoenix ID: BB94099

Project ID: 145 WEST STREET

Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	06/07/12		LB	E160.3
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
2-Hexanone	ND	25	ug/Kg	06/07/12		R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	06/07/12		R/J	SW8260
Acetone	ND	50	ug/Kg	06/07/12		R/J	SW8260
Acrylonitrile	ND	10	ug/Kg	06/07/12		R/J	SW8260
Benzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Bromoform	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Chloroform	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Dibromochloromethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	06/07/12		R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	06/07/12		R/J	SW8260
Methylene chloride	1.1 JS	5.0	ug/Kg	06/07/12		R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Styrene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	06/07/12		R/J	SW8260
Toluene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	06/07/12		R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	06/07/12		R/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	06/07/12		R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/07/12		R/J	59 - 113 %
% Dibromofluoromethane	101		%	06/07/12		R/J	70 - 130 %
% Toluene-d8	102		%	06/07/12		R/J	84 - 138 %

1P

1

Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date	Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

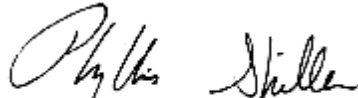
Comments:

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

ND=Not detected BDL=Below Detection Level RL=Reporting Level is equivalent to NELAC LOQ (Limit of quantitation)

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

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



Phyllis Shiller, Laboratory Director

June 27, 2012

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

4th v/c + 17p

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

Data Delivery:
☐ Fax #:
☐ Email:

Temp Pg of

Customer: Graili Engineering
 Address: 734 Wallkill Highway
Pineville, NY 11747

Project: 145 West Street
 Report to: Ken Brooks
 Invoice to: Ken Brooks

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

Client Sample Information - Identification
 Sampler's Signature: [Signature] Date: 6/1/12

Matrix Code: DW=drinking water GW=groundwater	WW=wastewater SL=sludge	S=solid A=air	Q=oil X=other	Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
93970	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93971	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93972	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93973	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93974	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93975	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93976	TRIP	BLANK	5	6/1					Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93977	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20
93978	WS	1	0-15	3	6/1				Soil VOA [1] Methanol [1.5] Benzoate [1] R20

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 6/5/12 11:25
 Time: 6-5R-1705

Comments, Special Requirements or Regulations:

No analysis requested. Placed on hold & emailed Client 6-6-12
[Signature]

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

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: _____



Friday, July 06, 2012

Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST STREET
Sample ID#s: BB93961 - BB93969, BB94098

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/04/12
06/05/12

Time

0:00
17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93961

Project ID: 145 WEST STREET
Client ID: WS F1 0-15 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/06/12	EK	SW6010
Aluminum	5580	N 41	mg/Kg	06/06/12	EK	SW6010
Arsenic	8.86	0.81	mg/Kg	06/06/12	EK	SW6010
Barium	231	N 0.81	mg/Kg	06/06/12	EK	SW6010
Beryllium	0.34	0.33	mg/Kg	06/06/12	EK	SW6010
Calcium	6370	N 4.1	mg/Kg	06/06/12	EK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	06/06/12	EK	SW6010
Cobalt	5.61	0.41	mg/Kg	06/06/12	EK	SW6010
Chromium	14.4	0.41	mg/Kg	06/06/12	EK	SW6010
Copper	44.6	0.41	mg/kg	06/06/12	EK	SW6010
Iron	18500	N 41	mg/Kg	06/06/12	EK	SW6010
Mercury	0.71	0.11	mg/Kg	06/06/12	RS	SW-7471
Potassium	1060	N 81	mg/Kg	06/06/12	EK	SW6010
Magnesium	2560	N 4.1	mg/Kg	06/06/12	EK	SW6010
Manganese	152	N 0.41	mg/Kg	06/06/12	EK	SW6010
Sodium	389	N 8	mg/Kg	06/06/12	EK	SW6010
Nickel	14.5	0.41	mg/Kg	06/06/12	EK	SW6010
Lead	396	N* 8.1	mg/Kg	06/06/12	EK	SW6010
Antimony	< 2.0	2.0	mg/Kg	06/06/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/06/12	EK	SW6010
TCLP Silver	< 0.10	0.10	mg/L	06/15/12	LK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/15/12	LK	SW6010
TCLP Barium	0.57	0.10	mg/L	06/15/12	LK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/15/12	LK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/15/12	LK	SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/14/12	RS	SW7470
TCLP Lead	0.13	0.10	mg/L	06/15/12	LK	SW6010
TCLP Selenium	< 0.10	0.10	mg/L	06/15/12	LK	SW6010

Parameter	Result	RL	Units	Date/Time	By	Reference	
Thallium	< 1.6	1.6	mg/Kg	06/06/12	EK	SW6010	
Total Metals Digest	Completed			06/05/12	AG	SW846 - 3050	
TCLP Metals Digestion	Completed			06/14/12	X/X	SW3005	
Vanadium	16.8	0.41	mg/Kg	06/06/12	EK	SW6010	
Zinc	116	N 0.81	mg/Kg	06/06/12	EK	SW6010	
Percent Solid	75		%	06/05/12	JL	E160.3	
Corrosivity	Negative	NONE	None	06/13/12	O/EG	SM 2330	1
Flash Point	>200	200	degree F	06/14/12	Y	SW1010	
Ignitability	Passed	140	deg F	06/14/12	Y	SW1010	
pH - Soil	7.69	0.10	pH Units	06/13/12 23:00	O/EG	4500-H B/9045	1
Reactivity Cyanide	< 13	13	mg/Kg	06/14/12	JL/GD	SW 846-7.3	1
Reactivity Sulfide	< 20	20	mg/Kg	06/14/12	JL/GD	SW846-7.3	1
Reactivity	Negative		Pos/Neg	06/14/12	JL/GD	SW 846-7.3	1
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545	
Mercury Digestion	Completed			06/06/12	X/X	SW7471	
Extraction of NJ QAM-025	Completed			06/13/12	JS/D	3545	
TCLP Digestion Mercury	Completed			06/14/12	X	E1311/7470	
TCLP Herbicides Extraction	Completed			06/15/12	D	SW8150 Mod	
TCLP Extraction for Metals	Completed			06/13/12	x	EPA 1311	
TCLP Extraction for Organics	Completed			06/13/12	x	1311	
TCLP Pesticides Extraction	Completed			06/14/12	L	SW3510	
TCLP Semi-Volatile Extraction	Completed			06/14/12	L	SW3510	
TCLP Extraction Volatiles	Completed			06/13/12	y	EPA 1311	

TPH by GC (QAM-025)

Total Petroleum Hydrocarbon	660	98	mg/Kg	06/15/12	JRB	QAM-025	1
<u>QA/QC Surrogates</u>							
% Chlorobenzene (surrogate)	52		%	06/15/12	JRB	50 - 150 %	
% Pentacosane (surrogate)	48		%	06/15/12	JRB	50 - 150 %	3

TCLP Herbicides

2,4,5-TP (Silvex)	ND	4.2	ug/L	06/18/12	JRB	SW8151	
2,4-D	ND	4.2	ug/L	06/18/12	JRB	SW8151	

QA/QC Surrogates

% DCAA	91		%	06/18/12	JRB	30 - 150 %	

TCLP Pesticides

4,4' -DDD	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
4,4' -DDE	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
4,4' -DDT	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
a-BHC	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Alachlor	ND	0.05	ug/L	06/18/12	KCA	SW 8081	1
Aldrin	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
b-BHC	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Chlordane	ND	0.3	ug/L	06/18/12	KCA	SW 8081	
d-BHC	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Dieldrin	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
Endosulfan I	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Endosulfan II	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
Endosulfan Sulfate	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
Endrin	ND	0.1	ug/L	06/18/12	KCA	SW 8081	

Parameter	Result	RL	Units	Date/Time	By	Reference
Endrin Aldehyde	ND	0.1	ug/L	06/18/12	KCA	SW 8081
g-BHC (Lindane)	ND	0.05	ug/L	06/18/12	KCA	SW 8081
Heptachlor	ND	0.05	ug/L	06/18/12	KCA	SW 8081
Heptachlor epoxide	ND	0.05	ug/L	06/18/12	KCA	SW 8081
Methoxychlor	ND	0.2	ug/L	06/18/12	KCA	SW 8081
Toxaphene	ND	1.0	ug/L	06/18/12	KCA	SW 8081
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	119		%	06/18/12	KCA	30 - 150 %
%TCMX (Surrogate Rec)	78		%	06/18/12	KCA	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,1,1-Trichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,1,2-Trichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,1-Dichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,1-Dichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,1-Dichloropropene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	1
1,2,3-Trichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,2-Dibromoethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	1P
1,2-Dichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,2-Dichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,2-Dichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,3-Dichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,3-Dichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
1,4-Dichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
2,2-Dichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
2-Chlorotoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
2-Hexanone	ND	1700	ug/Kg	06/07/12	R/J	SW8260	
2-Isopropyltoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260	1
4-Chlorotoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
4-Methyl-2-pentanone	ND	1700	ug/Kg	06/07/12	R/J	SW8260	
Acetone	ND	1700	ug/Kg	06/07/12	R/J	SW8260	
Acrylonitrile	ND	670	ug/Kg	06/07/12	R/J	SW8260	
Benzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Bromobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Bromochloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Bromodichloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Bromoform	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Bromomethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Carbon Disulfide	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Carbon tetrachloride	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Chlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	B
Chloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Chloroform	ND	330	ug/Kg	06/07/12	R/J	SW8260	

Parameter	Result	RL	Units	Date/Time	By	Reference	
Chloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
cis-1,2-Dichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
cis-1,3-Dichloropropene	ND	330	ug/Kg	06/07/12	R/J	SW8260	1
Dibromochloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Dibromomethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Dichlorodifluoromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Ethylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Hexachlorobutadiene	ND	330	ug/Kg	06/07/12	R/J	SW8260	1P
Isopropylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
m&p-Xylene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Methyl Ethyl Ketone	ND	2000	ug/Kg	06/07/12	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	670	ug/Kg	06/07/12	R/J	SW8260	
Methylene chloride	71 JS	330	ug/Kg	06/07/12	R/J	SW8260	
Naphthalene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
n-Butylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
n-Propylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
o-Xylene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
p-Isopropyltoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
sec-Butylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Styrene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
tert-Butylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Tetrachloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Tetrahydrofuran (THF)	ND	670	ug/Kg	06/07/12	R/J	SW8260	1
Toluene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
trans-1,2-Dichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
trans-1,3-Dichloropropene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	670	ug/Kg	06/07/12	R/J	SW8260	
Trichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Trichlorofluoromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Trichlorotrifluoroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260	
Vinyl chloride	ND	330	ug/Kg	06/07/12	R/J	SW8260	
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	06/07/12	R/J	70 - 121 %	
% Bromofluorobenzene	99		%	06/07/12	R/J	59 - 113 %	
% Dibromofluoromethane	99		%	06/07/12	R/J	70 - 130 %	
% Toluene-d8	100		%	06/07/12	R/J	84 - 138 %	
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	06/15/12	H/J	SW8260	
1,2-Dichloroethane	ND	50	ug/L	06/15/12	H/J	SW8260	
Benzene	ND	50	ug/L	06/15/12	H/J	SW8260	
Carbon tetrachloride	ND	50	ug/L	06/15/12	H/J	SW8260	
Chlorobenzene	ND	50	ug/L	06/15/12	H/J	SW8260	B
Chloroform	ND	50	ug/L	06/15/12	H/J	SW8260	
Methyl ethyl ketone	ND	50	ug/L	06/15/12	H/J	SW8260	
Tetrachloroethene	ND	150	ug/L	06/15/12	H/J	SW8260	
Trichloroethene	ND	50	ug/L	06/15/12	H/J	SW8260	
Vinyl chloride	ND	50	ug/L	06/15/12	H/J	SW8260	
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	06/15/12	H/J	70 - 121 %	

Parameter	Result	RL	Units	Date/Time	By	Reference
% Bromofluorobenzene	85		%	06/15/12	H/J	59 - 113 %
% Dibromofluoromethane	93		%	06/15/12	H/J	70 - 130 %
% Toluene-d8	99		%	06/15/12	H/J	84 - 138 %
Semivolatiles						
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	500	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Chloronaphthalene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Chlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Methylnaphthalene	200	J 310	ug/Kg	06/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Nitroaniline	ND	500	ug/Kg	06/06/12	DD	SW 8270
2-Nitrophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	310	ug/Kg	06/06/12	DD	SW 8270 1
3,3'-Dichlorobenzidine	ND	620	ug/Kg	06/06/12	DD	SW 8270
3-Nitroaniline	ND	500	ug/Kg	06/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	310	ug/Kg	06/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
4-Chloroaniline	ND	620	ug/Kg	06/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	06/06/12	DD	SW 8270
4-Nitroaniline	ND	500	ug/Kg	06/06/12	DD	SW 8270
4-Nitrophenol	ND	900	ug/Kg	06/06/12	DD	SW 8270
Acenaphthene	670	310	ug/Kg	06/06/12	DD	SW 8270
Acenaphthylene	150	J 310	ug/Kg	06/06/12	DD	SW 8270
Acetophenone	ND	310	ug/Kg	06/06/12	DD	SW 8270
Aniline	ND	900	ug/Kg	06/06/12	DD	SW 8270 10
Anthracene	2300	310	ug/Kg	06/06/12	DD	SW 8270
Azobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270 1
Benz(a)anthracene	1500	310	ug/Kg	06/06/12	DD	SW 8270
Benzidine	ND	310	ug/Kg	06/06/12	DD	SW 8270
Benzo(a)pyrene	1700	310	ug/Kg	06/06/12	DD	SW 8270
Benzo(b)fluoranthene	1700	310	ug/Kg	06/06/12	DD	SW 8270
Benzo(ghi)perylene	700	310	ug/Kg	06/06/12	DD	SW 8270
Benzo(k)fluoranthene	720	310	ug/Kg	06/06/12	DD	SW 8270
Benzoic acid	ND	900	ug/Kg	06/06/12	DD	SW 8270 10
Benzyl butyl phthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	06/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	310	ug/Kg	06/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	310	ug/Kg	06/06/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference
Bis(2-ethylhexyl)phthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270
Carbazole	ND	900	ug/Kg	06/06/12	DD	SW 8270
Chrysene	1200	310	ug/Kg	06/06/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	310	ug/Kg	06/06/12	DD	SW 8270
Dibenzofuran	280	J 310	ug/Kg	06/06/12	DD	SW 8270
Diethyl phthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270
Dimethylphthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270
Di-n-butylphthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270
Di-n-octylphthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270
Fluoranthene	5100	310	ug/Kg	06/06/12	DD	SW 8270
Fluorene	920	310	ug/Kg	06/06/12	DD	SW 8270
Hexachlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
Hexachlorobutadiene	ND	310	ug/Kg	06/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	310	ug/Kg	06/06/12	DD	SW 8270
Hexachloroethane	ND	310	ug/Kg	06/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	650	310	ug/Kg	06/06/12	DD	SW 8270
Isophorone	ND	310	ug/Kg	06/06/12	DD	SW 8270
Naphthalene	520	310	ug/Kg	06/06/12	DD	SW 8270
Nitrobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	310	ug/Kg	06/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	310	ug/Kg	06/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	900	ug/Kg	06/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
Pentachlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
Phenanthrene	7800	D 620	ug/Kg	06/06/12	DD	SW 8270
Phenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
Pyrene	4400	310	ug/Kg	06/06/12	DD	SW 8270
Pyridine	ND	310	ug/Kg	06/06/12	DD	SW 8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	89		%	06/06/12	DD	19 - 122 %
% 2-Fluorobiphenyl	58		%	06/06/12	DD	30 - 115 %
% 2-Fluorophenol	69		%	06/06/12	DD	25 - 121 %
% Nitrobenzene-d5	62		%	06/06/12	DD	23 - 120 %
% Phenol-d5	69		%	06/06/12	DD	24 - 113 %
% Terphenyl-d14	76		%	06/06/12	DD	18 - 137 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	06/16/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	83	ug/L	06/16/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	83	ug/L	06/16/12	DD	SW 8270
2,4-Dinitrotoluene	ND	83	ug/L	06/16/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	83	ug/L	06/16/12	DD	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	06/16/12	DD	SW 8270
Hexachlorobenzene	ND	83	ug/L	06/16/12	DD	SW 8270
Hexachlorobutadiene	ND	83	ug/L	06/16/12	DD	SW 8270
Hexachloroethane	ND	83	ug/L	06/16/12	DD	SW 8270
Nitrobenzene	ND	83	ug/L	06/16/12	DD	SW 8270
Pentachlorophenol	ND	83	ug/L	06/16/12	DD	SW 8270
Pyridine	ND	83	ug/L	06/16/12	DD	SW 8270

QA/QC Surrogates

Parameter	Result	RL	Units	Date/Time	By	Reference
% 2,4,6-Tribromophenol	92		%	06/16/12	DD	19 - 122 %
% 2-Fluorobiphenyl	72		%	06/16/12	DD	30 - 115 %
% 2-Fluorophenol	68		%	06/16/12	DD	25 - 121 %
% Nitrobenzene-d5	80		%	06/16/12	DD	23 - 120 %
% Phenol-d5	53		%	06/16/12	DD	24 - 113 %
% Terphenyl-d14	90		%	06/16/12	DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

3 = This parameter exceeds laboratory specified limits.

B = Present in blank, no bias suspected.

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

Comments:

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.

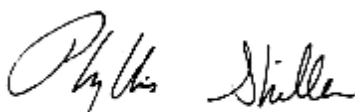
Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/04/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93962

Project ID: 145 WEST STREET
Client ID: WS E1 0-15 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.46	0.46	mg/Kg	06/06/12	EK	SW6010
Aluminum	8450	N 46	mg/Kg	06/06/12	EK	SW6010
Arsenic	6.75	0.91	mg/Kg	06/06/12	EK	SW6010
Barium	71.5	N 0.91	mg/Kg	06/06/12	EK	SW6010
Beryllium	0.49	0.37	mg/Kg	06/06/12	EK	SW6010
Calcium	3340	N 4.6	mg/Kg	06/06/12	EK	SW6010
Cadmium	< 0.46	0.46	mg/Kg	06/06/12	EK	SW6010
Cobalt	6.72	0.46	mg/Kg	06/06/12	EK	SW6010
Chromium	14.8	0.46	mg/Kg	06/06/12	EK	SW6010
Copper	55.9	0.46	mg/kg	06/06/12	EK	SW6010
Iron	19400	N 46	mg/Kg	06/06/12	EK	SW6010
Mercury	0.73	0.10	mg/Kg	06/06/12	RS	SW-7471
Potassium	1500	N 91	mg/Kg	06/06/12	EK	SW6010
Magnesium	3290	N 4.6	mg/Kg	06/06/12	EK	SW6010
Manganese	195	4.6	mg/Kg	06/06/12	EK	SW6010
Sodium	910	N 9	mg/Kg	06/06/12	EK	SW6010
Nickel	24.0	0.46	mg/Kg	06/06/12	EK	SW6010
Lead	118	N* 0.91	mg/Kg	06/06/12	EK	SW6010
Antimony	< 2.3	2.3	mg/Kg	06/06/12	EK	SW6010
Selenium	< 1.8	1.8	mg/Kg	06/06/12	EK	SW6010
Thallium	< 1.8	1.8	mg/Kg	06/06/12	EK	SW6010
Total Metals Digest	Completed			06/05/12	AG	SW846 - 3050
Vanadium	23.1	0.46	mg/Kg	06/06/12	EK	SW6010
Zinc	88.4	N 0.91	mg/Kg	06/06/12	EK	SW6010
Percent Solid	76		%	06/05/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545
Mercury Digestion	Completed			06/06/12	X/X	SW7471

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloropropene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichloropropane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromoethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichlorobenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloropropane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichloropropane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
2,2-Dichloropropane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
2-Chlorotoluene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
2-Hexanone	ND	33	ug/Kg	06/07/12	R/J	SW8260
2-Isopropyltoluene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
4-Chlorotoluene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	33	ug/Kg	06/07/12	R/J	SW8260
Acetone	16 JS	33	ug/Kg	06/07/12	R/J	SW8260
Acrylonitrile	ND	13	ug/Kg	06/07/12	R/J	SW8260
Benzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Bromobenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Bromochloromethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Bromodichloromethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Bromoform	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Bromomethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Carbon Disulfide	1.2 J	6.6	ug/Kg	06/07/12	R/J	SW8260
Carbon tetrachloride	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Chlorobenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Chloroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Chloroform	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Chloromethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Dibromochloromethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Dibromomethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Ethylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Hexachlorobutadiene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Isopropylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
m&p-Xylene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	39	ug/Kg	06/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/07/12	R/J	SW8260
Methylene chloride	2.4 JS	6.6	ug/Kg	06/07/12	R/J	SW8260
Naphthalene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
n-Butylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
n-Propylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
o-Xylene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
p-Isopropyltoluene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
sec-Butylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Styrene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
tert-Butylbenzene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Tetrachloroethene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	06/07/12	R/J	SW8260
Toluene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	06/07/12	R/J	SW8260
Trichloroethene	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Trichlorofluoromethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
Vinyl chloride	ND	6.6	ug/Kg	06/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/07/12	R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/07/12	R/J	59 - 113 %
% Dibromofluoromethane	98		%	06/07/12	R/J	70 - 130 %
% Toluene-d8	102		%	06/07/12	R/J	84 - 138 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	300	ug/Kg	06/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	300	ug/Kg	06/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	300	ug/Kg	06/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	300	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	490	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	300	ug/Kg	06/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	300	ug/Kg	06/06/12	DD	SW 8270
2-Chloronaphthalene	ND	300	ug/Kg	06/06/12	DD	SW 8270
2-Chlorophenol	ND	300	ug/Kg	06/06/12	DD	SW 8270
2-Methylnaphthalene	ND	300	ug/Kg	06/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	300	ug/Kg	06/06/12	DD	SW 8270
2-Nitroaniline	ND	490	ug/Kg	06/06/12	DD	SW 8270
2-Nitrophenol	ND	300	ug/Kg	06/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	300	ug/Kg	06/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	610	ug/Kg	06/06/12	DD	SW 8270
3-Nitroaniline	ND	490	ug/Kg	06/06/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	06/06/12	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	300	ug/Kg	06/06/12	DD	SW 8270	
4-Chloro-3-methylphenol	ND	300	ug/Kg	06/06/12	DD	SW 8270	
4-Chloroaniline	ND	610	ug/Kg	06/06/12	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	06/06/12	DD	SW 8270	
4-Nitroaniline	ND	490	ug/Kg	06/06/12	DD	SW 8270	
4-Nitrophenol	ND	880	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthene	140	J 300	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthylene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Acetophenone	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Aniline	ND	880	ug/Kg	06/06/12	DD	SW 8270	10
Anthracene	170	J 300	ug/Kg	06/06/12	DD	SW 8270	
Azobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270	1
Benz(a)anthracene	330	300	ug/Kg	06/06/12	DD	SW 8270	
Benzdine	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Benzo(a)pyrene	350	300	ug/Kg	06/06/12	DD	SW 8270	
Benzo(b)fluoranthene	440	300	ug/Kg	06/06/12	DD	SW 8270	
Benzo(ghi)perylene	220	J 300	ug/Kg	06/06/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Benzoic acid	ND	880	ug/Kg	06/06/12	DD	SW 8270	10
Benzyl butyl phthalate	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Carbazole	ND	880	ug/Kg	06/06/12	DD	SW 8270	
Chrysene	300	J 300	ug/Kg	06/06/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Dibenzofuran	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Diethyl phthalate	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Dimethylphthalate	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Di-n-butylphthalate	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Di-n-octylphthalate	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Fluoranthene	690	300	ug/Kg	06/06/12	DD	SW 8270	
Fluorene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobutadiene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Hexachloroethane	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	190	J 300	ug/Kg	06/06/12	DD	SW 8270	
Isophorone	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Naphthalene	290	J 300	ug/Kg	06/06/12	DD	SW 8270	
Nitrobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	300	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	880	ug/Kg	06/06/12	DD	SW 8270	
Pentachloronitrobenzene	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Pentachlorophenol	ND	300	ug/Kg	06/06/12	DD	SW 8270	
Phenanthrene	530	300	ug/Kg	06/06/12	DD	SW 8270	
Phenol	ND	300	ug/Kg	06/06/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference
Pyrene	620	300	ug/Kg	06/06/12	DD	SW 8270
Pyridine	ND	300	ug/Kg	06/06/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	82		%	06/06/12	DD	19 - 122 %
% 2-Fluorobiphenyl	56		%	06/06/12	DD	30 - 115 %
% 2-Fluorophenol	69		%	06/06/12	DD	25 - 121 %
% Nitrobenzene-d5	60		%	06/06/12	DD	23 - 120 %
% Phenol-d5	69		%	06/06/12	DD	24 - 113 %
% Terphenyl-d14	70		%	06/06/12	DD	18 - 137 %

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.

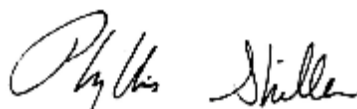
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/04/12
06/05/12

Time

0:00
17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93963

Project ID: 145 WEST STREET
Client ID: WS D1 0-15 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.47	0.47	mg/Kg	06/06/12	EK	SW6010
Aluminum	9110 N	47	mg/Kg	06/06/12	EK	SW6010
Arsenic	16.8	0.94	mg/Kg	06/06/12	EK	SW6010
Barium	262 N	0.94	mg/Kg	06/06/12	EK	SW6010
Beryllium	0.53	0.38	mg/Kg	06/06/12	EK	SW6010
Calcium	3250 N	4.7	mg/Kg	06/06/12	EK	SW6010
Cadmium	< 0.47	0.47	mg/Kg	06/06/12	EK	SW6010
Cobalt	8.17	0.47	mg/Kg	06/06/12	EK	SW6010
Chromium	25.3	0.47	mg/Kg	06/06/12	EK	SW6010
Copper	76.6	0.47	mg/kg	06/06/12	EK	SW6010
Iron	22700 N	47	mg/Kg	06/06/12	EK	SW6010
Mercury	1.86	0.11	mg/Kg	06/06/12	RS	SW-7471
Potassium	1820 N	94	mg/Kg	06/06/12	EK	SW6010
Magnesium	4480 N	4.7	mg/Kg	06/06/12	EK	SW6010
Manganese	271	4.7	mg/Kg	06/06/12	EK	SW6010
Sodium	1980 N	9	mg/Kg	06/06/12	EK	SW6010
Nickel	21.1	0.47	mg/Kg	06/06/12	EK	SW6010
Lead	400 N*	9.4	mg/Kg	06/06/12	EK	SW6010
Antimony	< 2.3	2.3	mg/Kg	06/06/12	EK	SW6010
Selenium	< 1.9	1.9	mg/Kg	06/06/12	EK	SW6010
Thallium	< 1.9	1.9	mg/Kg	06/06/12	EK	SW6010
Total Metals Digest	Completed			06/05/12	AG	SW846 - 3050
Vanadium	27.7	0.47	mg/Kg	06/06/12	EK	SW6010
Zinc	230 N	9.4	mg/Kg	06/06/12	EK	SW6010
Percent Solid	70		%	06/05/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545
Mercury Digestion	Completed			06/06/12	X/X	SW7471

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,1,1-Trichloroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,1,2-Trichloroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,1-Dichloroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,1-Dichloroethene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,1-Dichloropropene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260 1
1,2,3-Trichloropropane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,2-Dibromoethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,2-Dichloroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,2-Dichloropropane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,3-Dichlorobenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,3-Dichloropropane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
1,4-Dichlorobenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
2,2-Dichloropropane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
2-Chlorotoluene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
2-Hexanone	ND	36	ug/Kg	06/12/12	R/J	SW8260
2-Isopropyltoluene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260 1
4-Chlorotoluene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
4-Methyl-2-pentanone	ND	36	ug/Kg	06/12/12	R/J	SW8260
Acetone	61 JS	36	ug/Kg	06/12/12	R/J	SW8260
Acrylonitrile	ND	14	ug/Kg	06/12/12	R/J	SW8260
Benzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Bromobenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Bromochloromethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Bromodichloromethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Bromoform	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Bromomethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Carbon Disulfide	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Carbon tetrachloride	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Chlorobenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Chloroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Chloroform	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Chloromethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260 1
Dibromochloromethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Dibromomethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Dichlorodifluoromethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Ethylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260
Hexachlorobutadiene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260 1P
Isopropylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference	
m&p-Xylene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
Methyl Ethyl Ketone	ND	43	ug/Kg	06/12/12	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	06/12/12	R/J	SW8260	
Methylene chloride	72	S 7.1	ug/Kg	06/12/12	R/J	SW8260	
Naphthalene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
n-Butylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
n-Propylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
o-Xylene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
p-Isopropyltoluene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
sec-Butylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
Styrene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
tert-Butylbenzene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
Tetrachloroethene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
Tetrahydrofuran (THF)	ND	14	ug/Kg	06/12/12	R/J	SW8260	1
Toluene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	06/12/12	R/J	SW8260	
Trichloroethene	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
Trichlorofluoromethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
Trichlorotrifluoroethane	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
Vinyl chloride	ND	7.1	ug/Kg	06/12/12	R/J	SW8260	
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	125		%	06/12/12	R/J	70 - 121 %	3
% Bromofluorobenzene	74		%	06/12/12	R/J	59 - 113 %	
% Dibromofluoromethane	109		%	06/12/12	R/J	70 - 130 %	
% Toluene-d8	98		%	06/12/12	R/J	84 - 138 %	
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
1,2-Dichlorobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
1,3-Dichlorobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
1,4-Dichlorobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2,4,5-Trichlorophenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2,4,6-Trichlorophenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2,4-Dichlorophenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2,4-Dimethylphenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2,4-Dinitrophenol	ND	530	ug/Kg	06/06/12	DD	SW 8270	
2,4-Dinitrotoluene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2,6-Dinitrotoluene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2-Chloronaphthalene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2-Chlorophenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2-Methylnaphthalene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	330	ug/Kg	06/06/12	DD	SW 8270	
2-Nitroaniline	ND	530	ug/Kg	06/06/12	DD	SW 8270	
2-Nitrophenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	06/06/12	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	660	ug/Kg	06/06/12	DD	SW 8270	
3-Nitroaniline	ND	530	ug/Kg	06/06/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference	
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	330	ug/Kg	06/06/12	DD	SW 8270	
4-Chloro-3-methylphenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
4-Chloroaniline	ND	660	ug/Kg	06/06/12	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	06/06/12	DD	SW 8270	
4-Nitroaniline	ND	530	ug/Kg	06/06/12	DD	SW 8270	
4-Nitrophenol	ND	950	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthene	350	330	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthylene	160	J 330	ug/Kg	06/06/12	DD	SW 8270	
Acetophenone	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Aniline	ND	950	ug/Kg	06/06/12	DD	SW 8270	10
Anthracene	780	330	ug/Kg	06/06/12	DD	SW 8270	
Azobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	1
Benz(a)anthracene	1300	330	ug/Kg	06/06/12	DD	SW 8270	
Benzdine	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Benzo(a)pyrene	1400	330	ug/Kg	06/06/12	DD	SW 8270	
Benzo(b)fluoranthene	1600	330	ug/Kg	06/06/12	DD	SW 8270	
Benzo(ghi)perylene	720	330	ug/Kg	06/06/12	DD	SW 8270	
Benzo(k)fluoranthene	560	330	ug/Kg	06/06/12	DD	SW 8270	
Benzoic acid	ND	950	ug/Kg	06/06/12	DD	SW 8270	10
Benzyl butyl phthalate	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Carbazole	ND	950	ug/Kg	06/06/12	DD	SW 8270	
Chrysene	1200	330	ug/Kg	06/06/12	DD	SW 8270	
Dibenz(a,h)anthracene	290	J 330	ug/Kg	06/06/12	DD	SW 8270	
Dibenzofuran	160	J 330	ug/Kg	06/06/12	DD	SW 8270	
Diethyl phthalate	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Dimethylphthalate	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Di-n-butylphthalate	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Di-n-octylphthalate	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Fluoranthene	3200	330	ug/Kg	06/06/12	DD	SW 8270	
Fluorene	350	330	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobutadiene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Hexachloroethane	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	650	330	ug/Kg	06/06/12	DD	SW 8270	
Isophorone	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Naphthalene	600	330	ug/Kg	06/06/12	DD	SW 8270	
Nitrobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	330	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	330	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	950	ug/Kg	06/06/12	DD	SW 8270	
Pentachloronitrobenzene	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Pentachlorophenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	
Phenanthrene	2500	330	ug/Kg	06/06/12	DD	SW 8270	
Phenol	ND	330	ug/Kg	06/06/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference
Pyrene	2800	330	ug/Kg	06/06/12	DD	SW 8270
Pyridine	ND	330	ug/Kg	06/06/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	86		%	06/06/12	DD	19 - 122 %
% 2-Fluorobiphenyl	45		%	06/06/12	DD	30 - 115 %
% 2-Fluorophenol	67		%	06/06/12	DD	25 - 121 %
% Nitrobenzene-d5	55		%	06/06/12	DD	23 - 120 %
% Phenol-d5	68		%	06/06/12	DD	24 - 113 %
% Terphenyl-d14	79		%	06/06/12	DD	18 - 137 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

1O = This parameter is not certified by NY NELAC for this matrix.

3 = This parameter exceeds laboratory specified limits.

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

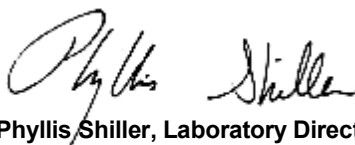
Comments:

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

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date	Time
06/04/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93964

Project ID: 145 WEST STREET
Client ID: WS C1 0-15 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	06/06/12	EK	SW6010
Aluminum	8580	N 44	mg/Kg	06/06/12	EK	SW6010
Arsenic	8.77	0.88	mg/Kg	06/06/12	EK	SW6010
Barium	133	N 0.88	mg/Kg	06/06/12	EK	SW6010
Beryllium	0.53	0.35	mg/Kg	06/06/12	EK	SW6010
Calcium	10800	N 4.4	mg/Kg	06/06/12	EK	SW6010
Cadmium	< 0.44	0.44	mg/Kg	06/06/12	EK	SW6010
Cobalt	7.89	0.44	mg/Kg	06/06/12	EK	SW6010
Chromium	19.4	0.44	mg/Kg	06/06/12	EK	SW6010
Copper	65.8	0.44	mg/kg	06/06/12	EK	SW6010
Iron	22300	N 44	mg/Kg	06/06/12	EK	SW6010
Mercury	0.74	0.11	mg/Kg	06/06/12	RS	SW-7471
Potassium	1720	N 88	mg/Kg	06/06/12	EK	SW6010
Magnesium	8170	N 44	mg/Kg	06/06/12	EK	SW6010
Manganese	265	4.4	mg/Kg	06/06/12	EK	SW6010
Sodium	1970	N 9	mg/Kg	06/06/12	EK	SW6010
Nickel	17.9	0.44	mg/Kg	06/06/12	EK	SW6010
Lead	323	N* 8.8	mg/Kg	06/06/12	EK	SW6010
Antimony	< 2.2	2.2	mg/Kg	06/06/12	EK	SW6010
Selenium	< 1.8	1.8	mg/Kg	06/06/12	EK	SW6010
Thallium	< 1.8	1.8	mg/Kg	06/06/12	EK	SW6010
Total Metals Digest	Completed			06/05/12	AG	SW846 - 3050
Vanadium	25.5	0.44	mg/Kg	06/06/12	EK	SW6010
Zinc	162	N 0.88	mg/Kg	06/06/12	EK	SW6010
Percent Solid	67		%	06/05/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545
Mercury Digestion	Completed			06/06/12	X/X	SW7471

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloropropene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichloropropane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromoethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichlorobenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloropropane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichloropropane	ND	370	ug/Kg	06/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
2,2-Dichloropropane	ND	370	ug/Kg	06/07/12	R/J	SW8260
2-Chlorotoluene	ND	370	ug/Kg	06/07/12	R/J	SW8260
2-Hexanone	ND	1900	ug/Kg	06/07/12	R/J	SW8260
2-Isopropyltoluene	ND	370	ug/Kg	06/07/12	R/J	SW8260
4-Chlorotoluene	ND	370	ug/Kg	06/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	1900	ug/Kg	06/07/12	R/J	SW8260
Acetone	ND	1900	ug/Kg	06/07/12	R/J	SW8260
Acrylonitrile	ND	750	ug/Kg	06/07/12	R/J	SW8260
Benzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Bromobenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Bromochloromethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Bromodichloromethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Bromoform	ND	370	ug/Kg	06/07/12	R/J	SW8260
Bromomethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Carbon Disulfide	ND	370	ug/Kg	06/07/12	R/J	SW8260
Carbon tetrachloride	ND	370	ug/Kg	06/07/12	R/J	SW8260
Chlorobenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Chloroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Chloroform	ND	370	ug/Kg	06/07/12	R/J	SW8260
Chloromethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	370	ug/Kg	06/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Dibromochloromethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Dibromomethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Ethylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Hexachlorobutadiene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Isopropylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
m&p-Xylene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	2200	ug/Kg	06/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	750	ug/Kg	06/07/12	R/J	SW8260
Methylene chloride	96 JS	370	ug/Kg	06/07/12	R/J	SW8260
Naphthalene	ND	370	ug/Kg	06/07/12	R/J	SW8260
n-Butylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
n-Propylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
o-Xylene	ND	370	ug/Kg	06/07/12	R/J	SW8260
p-Isopropyltoluene	ND	370	ug/Kg	06/07/12	R/J	SW8260
sec-Butylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Styrene	ND	370	ug/Kg	06/07/12	R/J	SW8260
tert-Butylbenzene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Tetrachloroethene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	750	ug/Kg	06/07/12	R/J	SW8260
Toluene	ND	370	ug/Kg	06/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	370	ug/Kg	06/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	370	ug/Kg	06/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	750	ug/Kg	06/07/12	R/J	SW8260
Trichloroethene	ND	370	ug/Kg	06/07/12	R/J	SW8260
Trichlorofluoromethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	370	ug/Kg	06/07/12	R/J	SW8260
Vinyl chloride	ND	370	ug/Kg	06/07/12	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	06/07/12	R/J	70 - 121 %
% Bromofluorobenzene	100		%	06/07/12	R/J	59 - 113 %
% Dibromofluoromethane	100		%	06/07/12	R/J	70 - 130 %
% Toluene-d8	100		%	06/07/12	R/J	84 - 138 %
Semivolatiles						
1,2,4,5-Tetrachlorobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	340	ug/Kg	06/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	340	ug/Kg	06/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	340	ug/Kg	06/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	340	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	550	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	340	ug/Kg	06/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	340	ug/Kg	06/06/12	DD	SW 8270
2-Chloronaphthalene	ND	340	ug/Kg	06/06/12	DD	SW 8270
2-Chlorophenol	ND	340	ug/Kg	06/06/12	DD	SW 8270
2-Methylnaphthalene	220 J	340	ug/Kg	06/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	340	ug/Kg	06/06/12	DD	SW 8270
2-Nitroaniline	ND	550	ug/Kg	06/06/12	DD	SW 8270
2-Nitrophenol	ND	340	ug/Kg	06/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	280 J	340	ug/Kg	06/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	680	ug/Kg	06/06/12	DD	SW 8270
3-Nitroaniline	ND	550	ug/Kg	06/06/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
4,6-Dinitro-2-methylphenol	ND	340	ug/Kg	06/06/12	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	340	ug/Kg	06/06/12	DD	SW 8270	
4-Chloro-3-methylphenol	ND	340	ug/Kg	06/06/12	DD	SW 8270	
4-Chloroaniline	ND	680	ug/Kg	06/06/12	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	340	ug/Kg	06/06/12	DD	SW 8270	
4-Nitroaniline	ND	550	ug/Kg	06/06/12	DD	SW 8270	
4-Nitrophenol	ND	990	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthene	550	340	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthylene	1300	340	ug/Kg	06/06/12	DD	SW 8270	
Acetophenone	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Aniline	ND	990	ug/Kg	06/06/12	DD	SW 8270	10
Anthracene	5200	340	ug/Kg	06/06/12	DD	SW 8270	
Azobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270	1
Benz(a)anthracene	6000	340	ug/Kg	06/06/12	DD	SW 8270	
Benzdine	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Benzo(a)pyrene	5500	340	ug/Kg	06/06/12	DD	SW 8270	
Benzo(b)fluoranthene	8200	D 1700	ug/Kg	06/06/12	DD	SW 8270	
Benzo(ghi)perylene	1900	340	ug/Kg	06/06/12	DD	SW 8270	
Benzo(k)fluoranthene	2700	340	ug/Kg	06/06/12	DD	SW 8270	
Benzoic acid	ND	990	ug/Kg	06/06/12	DD	SW 8270	10
Benzyl butyl phthalate	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Carbazole	850	J 990	ug/Kg	06/06/12	DD	SW 8270	
Chrysene	5400	340	ug/Kg	06/06/12	DD	SW 8270	
Dibenz(a,h)anthracene	880	340	ug/Kg	06/06/12	DD	SW 8270	
Dibenzofuran	1300	340	ug/Kg	06/06/12	DD	SW 8270	
Diethyl phthalate	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Dimethylphthalate	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Di-n-butylphthalate	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Di-n-octylphthalate	150	J 340	ug/Kg	06/06/12	DD	SW 8270	
Fluoranthene	25000	D 1700	ug/Kg	06/06/12	DD	SW 8270	
Fluorene	1400	340	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobutadiene	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Hexachloroethane	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	2000	340	ug/Kg	06/06/12	DD	SW 8270	
Isophorone	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Naphthalene	1200	340	ug/Kg	06/06/12	DD	SW 8270	
Nitrobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	340	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	340	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	990	ug/Kg	06/06/12	DD	SW 8270	
Pentachloronitrobenzene	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Pentachlorophenol	ND	340	ug/Kg	06/06/12	DD	SW 8270	
Phenanthrene	12000	D 1700	ug/Kg	06/06/12	DD	SW 8270	
Phenol	ND	340	ug/Kg	06/06/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference
Pyrene	21000 D	1700	ug/Kg	06/06/12	DD	SW 8270
Pyridine	ND	340	ug/Kg	06/06/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	100		%	06/06/12	DD	19 - 122 %
% 2-Fluorobiphenyl	54		%	06/06/12	DD	30 - 115 %
% 2-Fluorophenol	74		%	06/06/12	DD	25 - 121 %
% Nitrobenzene-d5	61		%	06/06/12	DD	23 - 120 %
% Phenol-d5	73		%	06/06/12	DD	24 - 113 %
% Terphenyl-d14	79		%	06/06/12	DD	18 - 137 %

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=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

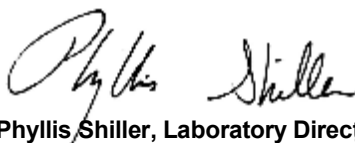
Comments:

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/04/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93965

Project ID: 145 WEST STREET
Client ID: WS B1 0-15 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	06/06/12	EK	SW6010
Aluminum	4800	N 39	mg/Kg	06/06/12	EK	SW6010
Arsenic	4.78	0.77	mg/Kg	06/06/12	EK	SW6010
Barium	106	N 0.77	mg/Kg	06/06/12	EK	SW6010
Beryllium	0.39	0.31	mg/Kg	06/06/12	EK	SW6010
Calcium	6980	N 3.9	mg/Kg	06/06/12	EK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	06/06/12	EK	SW6010
Cobalt	4.21	0.39	mg/Kg	06/06/12	EK	SW6010
Chromium	10.8	0.39	mg/Kg	06/06/12	EK	SW6010
Copper	64.8	0.39	mg/kg	06/06/12	EK	SW6010
Iron	13100	N 39	mg/Kg	06/06/12	EK	SW6010
Mercury	0.55	0.10	mg/Kg	06/06/12	RS	SW-7471
Potassium	945	N 77	mg/Kg	06/06/12	EK	SW6010
Magnesium	1760	N 3.9	mg/Kg	06/06/12	EK	SW6010
Manganese	256	3.9	mg/Kg	06/06/12	EK	SW6010
Sodium	999	N 8	mg/Kg	06/06/12	EK	SW6010
Nickel	12.3	0.39	mg/Kg	06/06/12	EK	SW6010
Lead	396	N* 7.7	mg/Kg	06/06/12	EK	SW6010
Antimony	< 4.0	4.0	mg/Kg	06/06/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/06/12	EK	SW6010
Thallium	< 1.5	1.5	mg/Kg	06/06/12	EK	SW6010
Total Metals Digest	Completed			06/05/12	AG	SW846 - 3050
Vanadium	15.9	0.39	mg/Kg	06/06/12	EK	SW6010
Zinc	95.0	N 0.77	mg/Kg	06/06/12	EK	SW6010
Percent Solid	81		%	06/05/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545
Mercury Digestion	Completed			06/06/12	X/X	SW7471

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloropropene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichloropropane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromoethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichlorobenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloropropane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichloropropane	ND	310	ug/Kg	06/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
2,2-Dichloropropane	ND	310	ug/Kg	06/07/12	R/J	SW8260
2-Chlorotoluene	ND	310	ug/Kg	06/07/12	R/J	SW8260
2-Hexanone	ND	1500	ug/Kg	06/07/12	R/J	SW8260
2-Isopropyltoluene	ND	310	ug/Kg	06/07/12	R/J	SW8260
4-Chlorotoluene	ND	310	ug/Kg	06/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	1500	ug/Kg	06/07/12	R/J	SW8260
Acetone	ND	1500	ug/Kg	06/07/12	R/J	SW8260
Acrylonitrile	ND	620	ug/Kg	06/07/12	R/J	SW8260
Benzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Bromobenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Bromochloromethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Bromodichloromethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Bromoform	ND	310	ug/Kg	06/07/12	R/J	SW8260
Bromomethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Carbon Disulfide	ND	310	ug/Kg	06/07/12	R/J	SW8260
Carbon tetrachloride	ND	310	ug/Kg	06/07/12	R/J	SW8260
Chlorobenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Chloroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Chloroform	ND	310	ug/Kg	06/07/12	R/J	SW8260
Chloromethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	310	ug/Kg	06/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Dibromochloromethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Dibromomethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Ethylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Hexachlorobutadiene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Isopropylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
m&p-Xylene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	1900	ug/Kg	06/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	620	ug/Kg	06/07/12	R/J	SW8260
Methylene chloride	84 JS	310	ug/Kg	06/07/12	R/J	SW8260
Naphthalene	ND	310	ug/Kg	06/07/12	R/J	SW8260
n-Butylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
n-Propylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
o-Xylene	ND	310	ug/Kg	06/07/12	R/J	SW8260
p-Isopropyltoluene	ND	310	ug/Kg	06/07/12	R/J	SW8260
sec-Butylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Styrene	ND	310	ug/Kg	06/07/12	R/J	SW8260
tert-Butylbenzene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Tetrachloroethene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	620	ug/Kg	06/07/12	R/J	SW8260
Toluene	ND	310	ug/Kg	06/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	310	ug/Kg	06/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	310	ug/Kg	06/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	620	ug/Kg	06/07/12	R/J	SW8260
Trichloroethene	ND	310	ug/Kg	06/07/12	R/J	SW8260
Trichlorofluoromethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	310	ug/Kg	06/07/12	R/J	SW8260
Vinyl chloride	ND	310	ug/Kg	06/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	06/07/12	R/J	70 - 121 %
% Bromofluorobenzene	100		%	06/07/12	R/J	59 - 113 %
% Dibromofluoromethane	100		%	06/07/12	R/J	70 - 130 %
% Toluene-d8	100		%	06/07/12	R/J	84 - 138 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	450	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/06/12	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/06/12	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/06/12	DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/06/12	DD	SW 8270
2-Nitroaniline	ND	450	ug/Kg	06/06/12	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	880	280	ug/Kg	06/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	560	ug/Kg	06/06/12	DD	SW 8270
3-Nitroaniline	ND	450	ug/Kg	06/06/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	06/06/12	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	280	ug/Kg	06/06/12	DD	SW 8270	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/06/12	DD	SW 8270	
4-Chloroaniline	ND	560	ug/Kg	06/06/12	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/06/12	DD	SW 8270	
4-Nitroaniline	ND	450	ug/Kg	06/06/12	DD	SW 8270	
4-Nitrophenol	ND	820	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Acetophenone	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Aniline	ND	820	ug/Kg	06/06/12	DD	SW 8270	10
Anthracene	140	J 280	ug/Kg	06/06/12	DD	SW 8270	
Azobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270	1
Benz(a)anthracene	360	280	ug/Kg	06/06/12	DD	SW 8270	
Benzdine	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Benzo(a)pyrene	280	280	ug/Kg	06/06/12	DD	SW 8270	
Benzo(b)fluoranthene	320	280	ug/Kg	06/06/12	DD	SW 8270	
Benzo(ghi)perylene	200	J 280	ug/Kg	06/06/12	DD	SW 8270	
Benzo(k)fluoranthene	140	J 280	ug/Kg	06/06/12	DD	SW 8270	
Benzoic acid	ND	820	ug/Kg	06/06/12	DD	SW 8270	10
Benzyl butyl phthalate	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Carbazole	ND	820	ug/Kg	06/06/12	DD	SW 8270	
Chrysene	320	280	ug/Kg	06/06/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Fluoranthene	640	280	ug/Kg	06/06/12	DD	SW 8270	
Fluorene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Hexachloroethane	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	160	J 280	ug/Kg	06/06/12	DD	SW 8270	
Isophorone	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Naphthalene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Nitrobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	280	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	820	ug/Kg	06/06/12	DD	SW 8270	
Pentachloronitrobenzene	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Pentachlorophenol	ND	280	ug/Kg	06/06/12	DD	SW 8270	
Phenanthrene	540	280	ug/Kg	06/06/12	DD	SW 8270	
Phenol	ND	280	ug/Kg	06/06/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference
Pyrene	630	280	ug/Kg	06/06/12	DD	SW 8270
Pyridine	ND	280	ug/Kg	06/06/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	76		%	06/06/12	DD	19 - 122 %
% 2-Fluorobiphenyl	59		%	06/06/12	DD	30 - 115 %
% 2-Fluorophenol	66		%	06/06/12	DD	25 - 121 %
% Nitrobenzene-d5	64		%	06/06/12	DD	23 - 120 %
% Phenol-d5	66		%	06/06/12	DD	24 - 113 %
% Terphenyl-d14	69		%	06/06/12	DD	18 - 137 %

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=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

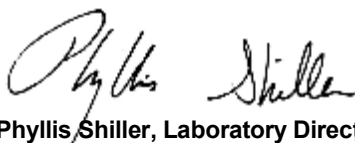
Comments:

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/04/12
06/05/12

Time

0:00
17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93966

Project ID: 145 WEST STREET
Client ID: WS A1 0-15 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	06/06/12	EK	SW6010
Aluminum	4840 N	48	mg/Kg	06/06/12	EK	SW6010
Arsenic	17.9	0.95	mg/Kg	06/06/12	EK	SW6010
Barium	172 N	0.95	mg/Kg	06/06/12	EK	SW6010
Beryllium	0.54	0.38	mg/Kg	06/06/12	EK	SW6010
Calcium	4970 N	4.8	mg/Kg	06/06/12	EK	SW6010
Cadmium	0.434 B	0.48	mg/Kg	06/06/12	EK	SW6010
Cobalt	8.13	0.48	mg/Kg	06/06/12	EK	SW6010
Chromium	24.2	0.48	mg/Kg	06/06/12	EK	SW6010
Copper	172	0.48	mg/kg	06/06/12	EK	SW6010
Iron	14600 N	48	mg/Kg	06/06/12	EK	SW6010
Mercury	1.91	0.10	mg/Kg	06/06/12	RS	SW-7471
Potassium	694 N	10	mg/Kg	06/06/12	EK	SW6010
Magnesium	1030 N	4.8	mg/Kg	06/06/12	EK	SW6010
Manganese	89.2 N	0.48	mg/Kg	06/06/12	EK	SW6010
Sodium	2040 N	10	mg/Kg	06/06/12	EK	SW6010
Nickel	22.7	0.48	mg/Kg	06/06/12	EK	SW6010
Lead	761 N*	9.5	mg/Kg	06/06/12	EK	SW6010
Antimony	< 4.5	4.5	mg/Kg	06/06/12	EK	SW6010
Selenium	< 2.5	2.5	mg/Kg	06/06/12	EK	SW6010
Thallium	< 1.9	1.9	mg/Kg	06/06/12	EK	SW6010
Total Metals Digest	Completed			06/05/12	AG	SW846 - 3050
Vanadium	23.1	0.48	mg/Kg	06/06/12	EK	SW6010
Zinc	324 N	9.5	mg/Kg	06/06/12	EK	SW6010
Percent Solid	75		%	06/05/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545
Mercury Digestion	Completed			06/06/12	X/X	SW7471

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloropropene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromoethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
2,2-Dichloropropane	ND	330	ug/Kg	06/07/12	R/J	SW8260
2-Chlorotoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260
2-Hexanone	ND	1700	ug/Kg	06/07/12	R/J	SW8260
2-Isopropyltoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260
4-Chlorotoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	1700	ug/Kg	06/07/12	R/J	SW8260
Acetone	ND	1700	ug/Kg	06/07/12	R/J	SW8260
Acrylonitrile	ND	670	ug/Kg	06/07/12	R/J	SW8260
Benzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Bromobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Bromochloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Bromodichloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Bromoform	ND	330	ug/Kg	06/07/12	R/J	SW8260
Bromomethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Carbon Disulfide	ND	330	ug/Kg	06/07/12	R/J	SW8260
Carbon tetrachloride	ND	330	ug/Kg	06/07/12	R/J	SW8260
Chlorobenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Chloroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Chloroform	ND	330	ug/Kg	06/07/12	R/J	SW8260
Chloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Dibromochloromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Dibromomethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Ethylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Hexachlorobutadiene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Isopropylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
m&p-Xylene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	2000	ug/Kg	06/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	670	ug/Kg	06/07/12	R/J	SW8260
Methylene chloride	75 JS	330	ug/Kg	06/07/12	R/J	SW8260
Naphthalene	ND	330	ug/Kg	06/07/12	R/J	SW8260
n-Butylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
n-Propylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
o-Xylene	ND	330	ug/Kg	06/07/12	R/J	SW8260
p-Isopropyltoluene	ND	330	ug/Kg	06/07/12	R/J	SW8260
sec-Butylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Styrene	ND	330	ug/Kg	06/07/12	R/J	SW8260
tert-Butylbenzene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Tetrachloroethene	160 J	330	ug/Kg	06/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	670	ug/Kg	06/07/12	R/J	SW8260
Toluene	ND	330	ug/Kg	06/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	330	ug/Kg	06/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	670	ug/Kg	06/07/12	R/J	SW8260
Trichloroethene	ND	330	ug/Kg	06/07/12	R/J	SW8260
Trichlorofluoromethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	330	ug/Kg	06/07/12	R/J	SW8260
Vinyl chloride	ND	330	ug/Kg	06/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	06/07/12	R/J	70 - 121 %
% Bromofluorobenzene	100		%	06/07/12	R/J	59 - 113 %
% Dibromofluoromethane	100		%	06/07/12	R/J	70 - 130 %
% Toluene-d8	100		%	06/07/12	R/J	84 - 138 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	500	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Chloronaphthalene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Chlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Methylnaphthalene	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	310	ug/Kg	06/06/12	DD	SW 8270
2-Nitroaniline	ND	500	ug/Kg	06/06/12	DD	SW 8270
2-Nitrophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	310	ug/Kg	06/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	620	ug/Kg	06/06/12	DD	SW 8270
3-Nitroaniline	ND	500	ug/Kg	06/06/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
4,6-Dinitro-2-methylphenol	ND	310	ug/Kg	06/06/12	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	310	ug/Kg	06/06/12	DD	SW 8270	
4-Chloro-3-methylphenol	ND	310	ug/Kg	06/06/12	DD	SW 8270	
4-Chloroaniline	ND	620	ug/Kg	06/06/12	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	06/06/12	DD	SW 8270	
4-Nitroaniline	ND	500	ug/Kg	06/06/12	DD	SW 8270	
4-Nitrophenol	ND	900	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthylene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Acetophenone	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Aniline	ND	900	ug/Kg	06/06/12	DD	SW 8270	10
Anthracene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Azobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270	1
Benz(a)anthracene	150	J 310	ug/Kg	06/06/12	DD	SW 8270	
Benzidine	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Benzo(a)pyrene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Benzo(b)fluoranthene	160	J 310	ug/Kg	06/06/12	DD	SW 8270	
Benzo(ghi)perylene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Benzoic acid	ND	900	ug/Kg	06/06/12	DD	SW 8270	10
Benzyl butyl phthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Carbazole	ND	900	ug/Kg	06/06/12	DD	SW 8270	
Chrysene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Dibenzofuran	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Diethyl phthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Dimethylphthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Di-n-butylphthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Di-n-octylphthalate	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Fluoranthene	260	J 310	ug/Kg	06/06/12	DD	SW 8270	
Fluorene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobutadiene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Hexachloroethane	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Isophorone	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Naphthalene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Nitrobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	310	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	310	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	900	ug/Kg	06/06/12	DD	SW 8270	
Pentachloronitrobenzene	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Pentachlorophenol	ND	310	ug/Kg	06/06/12	DD	SW 8270	
Phenanthrene	230	J 310	ug/Kg	06/06/12	DD	SW 8270	
Phenol	ND	310	ug/Kg	06/06/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference
Pyrene	250	J 310	ug/Kg	06/06/12	DD	SW 8270
Pyridine	ND	310	ug/Kg	06/06/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	80		%	06/06/12	DD	19 - 122 %
% 2-Fluorobiphenyl	58		%	06/06/12	DD	30 - 115 %
% 2-Fluorophenol	70		%	06/06/12	DD	25 - 121 %
% Nitrobenzene-d5	64		%	06/06/12	DD	23 - 120 %
% Phenol-d5	71		%	06/06/12	DD	24 - 113 %
% Terphenyl-d14	72		%	06/06/12	DD	18 - 137 %

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=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

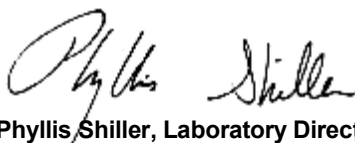
Comments:

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/04/12	0:00
06/05/12	17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93967

Project ID: 145 WEST STREET
Client ID: WS F1 20 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
On Hold	Pending					
Total Metals Digest	Completed				AG	SW846 - 3050
Soil Extraction for PCB	Completed			06/05/12	JB/F	SW3545
Soil Extraction for Pesticide	Completed			06/05/12	JB	SW3545
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545
Soil Extraction for Herbicide	Completed				M/D	SW8151

RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) 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
July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/04/12 0:00
06/05/12 17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93968

Project ID:

Client ID: WS A1 20 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.60	0.60	mg/Kg	06/06/12	LK	SW6010
Aluminum	18400 N	60	mg/Kg	06/06/12	LK	SW6010
Arsenic	12.4	1.2	mg/Kg	06/06/12	EK	SW6010
Barium	93.5 N	1.2	mg/Kg	06/06/12	LK	SW6010
Beryllium	1.02	0.48	mg/Kg	06/06/12	LK	SW6010
Calcium	4020 N	6.0	mg/Kg	06/06/12	LK	SW6010
Cadmium	< 0.60	0.60	mg/Kg	06/06/12	LK	SW6010
Cobalt	12.4	0.60	mg/Kg	06/06/12	LK	SW6010
Chromium	34.0	0.60	mg/Kg	06/06/12	LK	SW6010
Copper	37.8	0.60	mg/kg	06/06/12	LK	SW6010
Iron	41000 N	60	mg/Kg	06/06/12	LK	SW6010
Mercury	0.29	0.12	mg/Kg	06/06/12	RS	SW-7471
Potassium	3970 N	120	mg/Kg	06/06/12	LK	SW6010
Magnesium	8260 N	6.0	mg/Kg	06/06/12	LK	SW6010
Manganese	1180 N	6.0	mg/Kg	06/06/12	LK	SW6010
Sodium	6480 N	12	mg/Kg	06/06/12	LK	SW6010
Nickel	31.1	0.60	mg/Kg	06/06/12	LK	SW6010
Lead	132 N*	1.2	mg/Kg	06/06/12	LK	SW6010
Antimony	< 3.0	3.0	mg/Kg	06/06/12	LK	SW6010
Selenium	< 2.4	2.4	mg/Kg	06/06/12	LK	SW6010
Thallium	< 2.4	2.4	mg/Kg	06/06/12	LK	SW6010
Total Metals Digest	Completed				AG	SW846 - 3050
Vanadium	43.3	0.60	mg/Kg	06/06/12	LK	SW6010
Zinc	113 N	1.2	mg/Kg	06/06/12	LK	SW6010
Percent Solid	56		%	06/05/12	JL	E160.3
Soil Extraction for PCB	Completed			06/05/12	JB	SW3545
Soil Extraction for Pesticide	Completed			06/05/12	JB	SW3545
Soil Extraction for SVOA	Completed			06/05/12	JB/F	SW3545

Parameter	Result	RL	Units	Date/Time	By	Reference
Mercury Digestion	Completed				X/X	SW7471
Soil Extraction for Herbicide	Completed				M/D	SW8151

Chlorinated Herbicides

2,4,5-T	ND	74	ug/Kg	06/06/12	JRB	SW8151
2,4,5-TP (Silvex)	ND	74	ug/Kg	06/06/12	JRB	SW8151
2,4-D	ND	74	ug/Kg	06/06/12	JRB	SW8151
2,4-DB	ND	740	ug/Kg	06/06/12	JRB	SW8151
Dalapon	ND	74	ug/Kg	06/06/12	JRB	SW8151
Dicamba	ND	150	ug/Kg	06/06/12	JRB	SW8151
Dichloroprop	ND	74	ug/Kg	06/06/12	JRB	SW8151
Dinoseb	ND	150	ug/Kg	06/06/12	JRB	SW8151

QA/QC Surrogates

% DCAA	128		%	06/06/12	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1221	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1232	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1242	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1248	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1254	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1260	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1262	ND	58	ug/Kg	06/13/12	MH	SW 8082
PCB-1268	ND	58	ug/Kg	06/13/12	MH	SW 8082

QA/QC Surrogates

% DCBP	47		%	06/13/12	MH	30 - 150 %
% TCMX	35		%	06/13/12	MH	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	3.3	ug/Kg	06/14/12	KCA	SW8081
4,4' -DDE	ND	3.3	ug/Kg	06/14/12	KCA	SW8081
4,4' -DDT	ND	3.3	ug/Kg	06/14/12	KCA	SW8081
a-BHC	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
a-Chlordane	ND	5.8	ug/Kg	06/14/12	KCA	SW8081
Aldrin	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
b-BHC	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
Chlordane	ND	35	ug/Kg	06/14/12	KCA	SW8081
d-BHC	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
Dieldrin	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
Endosulfan I	ND	5.8	ug/Kg	06/14/12	KCA	SW8081
Endosulfan II	ND	5.8	ug/Kg	06/14/12	KCA	SW8081
Endosulfan sulfate	ND	5.8	ug/Kg	06/14/12	KCA	SW8081
Endrin	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
Endrin aldehyde	ND	5.8	ug/Kg	06/14/12	KCA	SW8081
Endrin ketone	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
g-BHC	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
g-Chlordane	ND	5.8	ug/Kg	06/14/12	KCA	SW8081
Heptachlor	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
Heptachlor epoxide	ND	2.9	ug/Kg	06/14/12	KCA	SW8081
Methoxychlor	ND	12	ug/Kg	06/14/12	KCA	SW8081

Parameter	Result	RL	Units	Date/Time	By	Reference	
Toxaphene	ND	56	ug/Kg	06/14/12	KCA	SW8081	
<u>QA/QC Surrogates</u>							
% DCBP	60		%	06/14/12	KCA	SW8081	
% TCMX	43		%	06/14/12	KCA	SW8081	
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,1,1-Trichloroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,1,2-Trichloroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,1-Dichloroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,1-Dichloroethene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,1-Dichloropropene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	1
1,2,3-Trichloropropane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,2,4-Trimethylbenzene	210	89	ug/Kg	06/11/12	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,2-Dibromoethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	1P
1,2-Dichlorobenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,2-Dichloroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,2-Dichloropropane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,3,5-Trimethylbenzene	100	89	ug/Kg	06/11/12	R/J	SW8260	
1,3-Dichlorobenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,3-Dichloropropane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
1,4-Dichlorobenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
2,2-Dichloropropane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
2-Chlorotoluene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
2-Hexanone	ND	450	ug/Kg	06/11/12	R/J	SW8260	
2-Isopropyltoluene	43	J 89	ug/Kg	06/11/12	R/J	SW8260	1
4-Chlorotoluene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
4-Methyl-2-pentanone	ND	450	ug/Kg	06/11/12	R/J	SW8260	
Acetone	200	JS 450	ug/Kg	06/11/12	R/J	SW8260	
Acrylonitrile	ND	180	ug/Kg	06/11/12	R/J	SW8260	
Benzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Bromobenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Bromochloromethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Bromodichloromethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Bromoform	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Bromomethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Carbon Disulfide	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Carbon tetrachloride	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Chlorobenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Chloroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Chloroform	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Chloromethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
cis-1,2-Dichloroethene	ND	89	ug/Kg	06/11/12	R/J	SW8260	
cis-1,3-Dichloropropene	ND	89	ug/Kg	06/11/12	R/J	SW8260	1
Dibromochloromethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	
Dibromomethane	ND	89	ug/Kg	06/11/12	R/J	SW8260	

Parameter	Result	RL	Units	Date/Time	By	Reference
Dichlorodifluoromethane	ND	89	ug/Kg	06/11/12	R/J	SW8260
Ethylbenzene	16 J	89	ug/Kg	06/11/12	R/J	SW8260
Hexachlorobutadiene	ND	89	ug/Kg	06/11/12	R/J	SW8260 1P
Isopropylbenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260
m&p-Xylene	42 J	89	ug/Kg	06/11/12	R/J	SW8260
Methyl Ethyl Ketone	ND	540	ug/Kg	06/11/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	180	ug/Kg	06/11/12	R/J	SW8260
Methylene chloride	250 S	89	ug/Kg	06/11/12	R/J	SW8260
Naphthalene	3800 D	890	ug/Kg	06/11/12	R/J	SW8260
n-Butylbenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260
n-Propylbenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260
o-Xylene	ND	89	ug/Kg	06/11/12	R/J	SW8260
p-Isopropyltoluene	30 J	89	ug/Kg	06/11/12	R/J	SW8260
sec-Butylbenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260
Styrene	ND	89	ug/Kg	06/11/12	R/J	SW8260
tert-Butylbenzene	ND	89	ug/Kg	06/11/12	R/J	SW8260
Tetrachloroethene	ND	89	ug/Kg	06/11/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	180	ug/Kg	06/11/12	R/J	SW8260 1
Toluene	ND	89	ug/Kg	06/11/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	89	ug/Kg	06/11/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	89	ug/Kg	06/11/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	180	ug/Kg	06/11/12	R/J	SW8260
Trichloroethene	ND	89	ug/Kg	06/11/12	R/J	SW8260
Trichlorofluoromethane	ND	89	ug/Kg	06/11/12	R/J	SW8260
Trichlorotrifluoroethane	ND	89	ug/Kg	06/11/12	R/J	SW8260
Vinyl chloride	ND	89	ug/Kg	06/11/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	98		%	06/11/12	R/J	70 - 121 %
% Bromofluorobenzene	97		%	06/11/12	R/J	59 - 113 %
% Dibromofluoromethane	97		%	06/11/12	R/J	70 - 130 %
% Toluene-d8	100		%	06/11/12	R/J	84 - 138 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	410	ug/Kg	06/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	410	ug/Kg	06/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	410	ug/Kg	06/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	410	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	650	ug/Kg	06/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	410	ug/Kg	06/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	410	ug/Kg	06/06/12	DD	SW 8270
2-Chloronaphthalene	ND	410	ug/Kg	06/06/12	DD	SW 8270
2-Chlorophenol	ND	410	ug/Kg	06/06/12	DD	SW 8270
2-Methylnaphthalene	380 J	410	ug/Kg	06/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	410	ug/Kg	06/06/12	DD	SW 8270
2-Nitroaniline	ND	650	ug/Kg	06/06/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
2-Nitrophenol	ND	410	ug/Kg	06/06/12	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	06/06/12	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	820	ug/Kg	06/06/12	DD	SW 8270	
3-Nitroaniline	ND	650	ug/Kg	06/06/12	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	410	ug/Kg	06/06/12	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	410	ug/Kg	06/06/12	DD	SW 8270	
4-Chloro-3-methylphenol	ND	410	ug/Kg	06/06/12	DD	SW 8270	
4-Chloroaniline	ND	820	ug/Kg	06/06/12	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	410	ug/Kg	06/06/12	DD	SW 8270	
4-Nitroaniline	ND	650	ug/Kg	06/06/12	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Acenaphthylene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Acetophenone	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Aniline	ND	1200	ug/Kg	06/06/12	DD	SW 8270	10
Anthracene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Azobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270	1
Benz(a)anthracene	360	J 410	ug/Kg	06/06/12	DD	SW 8270	
Benzidine	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Benzo(a)pyrene	260	J 410	ug/Kg	06/06/12	DD	SW 8270	
Benzo(b)fluoranthene	290	J 410	ug/Kg	06/06/12	DD	SW 8270	
Benzo(ghi)perylene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Benzoic acid	ND	1200	ug/Kg	06/06/12	DD	SW 8270	10
Benzyl butyl phthalate	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/06/12	DD	SW 8270	
Chrysene	350	J 410	ug/Kg	06/06/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Dibenzofuran	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Diethyl phthalate	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Dimethylphthalate	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Di-n-butylphthalate	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Di-n-octylphthalate	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Fluoranthene	550	410	ug/Kg	06/06/12	DD	SW 8270	
Fluorene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorobutadiene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Hexachloroethane	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Isophorone	ND	410	ug/Kg	06/06/12	DD	SW 8270	
Naphthalene	4000	410	ug/Kg	06/06/12	DD	SW 8270	
Nitrobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	410	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	410	ug/Kg	06/06/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	1200	ug/Kg	06/06/12	DD	SW 8270	

Project ID:
Client ID: WS A1 20 FT

Phoenix I.D.: BB93968

Parameter	Result	RL	Units	Date/Time	By	Reference
Pentachloronitrobenzene	ND	410	ug/Kg	06/06/12	DD	SW 8270
Pentachlorophenol	ND	410	ug/Kg	06/06/12	DD	SW 8270
Phenanthrene	520	410	ug/Kg	06/06/12	DD	SW 8270
Phenol	ND	410	ug/Kg	06/06/12	DD	SW 8270
Pyrene	530	410	ug/Kg	06/06/12	DD	SW 8270
Pyridine	ND	410	ug/Kg	06/06/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	89		%	06/06/12	DD	19 - 122 %
% 2-Fluorobiphenyl	33		%	06/06/12	DD	30 - 115 %
% 2-Fluorophenol	82		%	06/06/12	DD	25 - 121 %
% Nitrobenzene-d5	29		%	06/06/12	DD	23 - 120 %
% Phenol-d5	77		%	06/06/12	DD	24 - 113 %
% Terphenyl-d14	80		%	06/06/12	DD	18 - 137 %

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=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

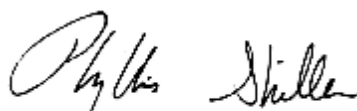
Comments:

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/04/12 0:00
06/05/12 17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB93969

Project ID: 145 WEST STREET
Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	06/06/12	LB	E160.3
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	06/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	06/07/12	R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	06/07/12	R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	06/07/12	R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	06/07/12	R/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	06/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	06/07/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Acetone	ND	1300	ug/Kg	06/07/12	R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	06/07/12	R/J	SW8260
Benzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Bromobenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Bromoform	ND	250	ug/Kg	06/07/12	R/J	SW8260
Bromomethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	06/07/12	R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	06/07/12	R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Chloroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Chloroform	ND	250	ug/Kg	06/07/12	R/J	SW8260
Chloromethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	06/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Dibromomethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	1500	ug/Kg	06/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	500	ug/Kg	06/07/12	R/J	SW8260
Methylene chloride	90 JS	250	ug/Kg	06/07/12	R/J	SW8260
Naphthalene	ND	250	ug/Kg	06/07/12	R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
o-Xylene	ND	250	ug/Kg	06/07/12	R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	06/07/12	R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Styrene	ND	250	ug/Kg	06/07/12	R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	06/07/12	R/J	SW8260
Toluene	ND	250	ug/Kg	06/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	06/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	06/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	06/07/12	R/J	SW8260
Trichloroethene	ND	250	ug/Kg	06/07/12	R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	06/07/12	R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	06/07/12	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	06/07/12	R/J	70 - 121 %
% Bromofluorobenzene	98		%	06/07/12	R/J	59 - 113 %
% Dibromofluoromethane	95		%	06/07/12	R/J	70 - 130 %
% Toluene-d8	101		%	06/07/12	R/J	84 - 138 %

Project ID: 145 WEST STREET
Client ID: TRIP BLANK

Phoenix I.D.: BB93969

Parameter	Result	RL	Units	Date/Time	By	Reference

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

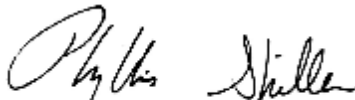
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
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Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date Time
06/04/12 0:00
06/05/12 17:05

Laboratory Data

SDG ID: GBB93961
Phoenix ID: BB94098

Project ID: 145 WEST ST
Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	06/07/12	R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	06/07/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Acetone	ND	25	ug/Kg	06/07/12	R/J	SW8260
Acrylonitrile	ND	10	ug/Kg	06/07/12	R/J	SW8260
Benzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Bromoform	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Chloroform	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Dibromochloromethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	06/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	06/07/12	R/J	SW8260
Methylene chloride	1.6 JS	5.0	ug/Kg	06/07/12	R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Styrene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	06/07/12	R/J	SW8260
Toluene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	06/07/12	R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	06/07/12	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	06/07/12	R/J	70 - 121 %
% Bromofluorobenzene	96		%	06/07/12	R/J	59 - 113 %
% Dibromofluoromethane	99		%	06/07/12	R/J	70 - 130 %
% Toluene-d8	101		%	06/07/12	R/J	84 - 138 %

Project ID: 145 WEST ST
Client ID: TRIP BLANK

Phoenix I.D.: BB94098

Parameter	Result	RL	Units	Date/Time	By	Reference

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

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

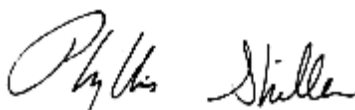
Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823



NY ANALYTICAL SERVICES PROTOCOL

July 06, 2012

SDG I.D.: GBB93961

145 WEST STREET Galli Engineering

Conformance / Non-Conformance Summary

Chlorinated Herbicides:

General Comments:

The samples were analyzed using a dual column ECD GC. Data files are labeled date-seq-A for the A channel and date-seq-B for the B channel. Results for this SDG are reported from the A channel.

The reporting levels (PQL) are based on the lowest calibration standard. The laboratory does not estimate concentrations that fall between the MDL study value and the PQL. As a result, there is only one concentration column on the form1. A number followed by a "U" indicates that the herbicide was not detected at that level. A number without a "U" indicates that the herbicide was detected at that level.

Form 2: Surrogate recoveries met criteria with the following exceptions: none

Form 3: Matrix Spike/Matrix Spike Duplicate/Lab Control Sample (LCS/LCSD) met criteria with the following exceptions: LCS/LCSD RPD for some compounds exceeded acceptance criteria.

Form 6D : Initial Calibration Retention Times: met criteria.

Form 6E: Initial Calibration (Factors and RSDs): met criteria.

Form 7: Continuing Calibration Standards/Blanks: The ending continuing calibration standard had Dichloroprop and Dinoseb recoveries outside acceptance criteria. A positive bias is not suspected because the sample concentration is not detected for herbicides.

Form 8: Retention Time sequence: Met Criteria

Other observations:

Rashmi Makol
Project Manager

Date



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NY ANALYTICAL SERVICES PROTOCOL

July 06, 2012

SDG I.D.: GBB93961

145 WEST STREET Galli Engineering

Conformance / Non-Conformance Summary

Polychlorinated Biphenyls (PCBs):

General Comments:

The samples were analyzed using a dual column ECD GC. Data files are labeled date-seq-A for the "A" channel and date-seq-B for the "B" channel. Results for this SDG are reported from the "A" channel. An acid cleanup was performed on all extracts. The reporting levels (PQL) are based on the lowest calibration standard. In this case, a 50ppb standard was also used to detect PCBs at lower level. It is part of Phoenix Lab's procedure to dilute all soil extracts by a factor of ten prior to analysis.

Calibration:

As per the method, a five-point calibration of aroclors 1016 and 1260 is used to verify the linearity of all the aroclors. Aroclor 1254 was also analyzed as part of this run for verification. If any other aroclors had been detected, the samples would have been reanalyzed with that aroclor.

Form 2: Surrogate recoveries met criteria.

Form3: Matrix Spike/Matrix Spike Duplicate/Lab Control Sample (LCS/LCSD) met criteria

Form 6D : Initial Calibration Retention Times met criteria.

Form 6E: Initial Calibration (Factors and RSDs) met criteria

Form 7D: Calibration Verification met criteria.

Form 8: Retention Time sequence met criteria

Other observations:

Rashmi Makol
Project Manager

Date



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



NY ANALYTICAL SERVICES PROTOCOL

July 06, 2012

SDG I.D.: GBB93961

145 WEST STREET Galli Engineering

Conformance / Non-Conformance Summary

Pesticides:

General Comments:

The samples were analyzed using a dual column ECD GC. Data files are labeled date-A-seq for the A channel and date-B-seq for the B channel. Results for this SDG are reported from the B channel.

A Florisil cleanup was performed on all extracts.

The reporting levels (PQL) are based on the lowest calibration standard. In this case, a 2.5ppb standard was also used to detect Pesticides at lower level. The laboratory does not estimate pesticides that fall between the MDL study value and the PQL. As a result, there is only one concentration column on the form1. A number followed by a "U" indicates that the pesticide was not detected at that level. A number without a "U" indicates that the pesticide was detected at that level.

A calibration curve for the single component pesticides was analyzed with the samples. The multi-component pesticides: Toxaphene and Chlordane standards are analyzed only if the pattern is detected in the samples.

This data package provides summary forms for the single component pesticides only, please refer to the Phoenix report for the full list

Form 2: Surrogate recoveries met criteria with the following exceptions: none

Form 3: Matrix Spike/Matrix Spike Duplicate/Lab Control Sample (LCS/LCSD) met criteria with the following exceptions: none

Form 6D : Initial Calibration Retention Times: met criteria.

Form 6E: Initial Calibration (Factors and RSDs): met criteria.

Form 7: Continuing Calibration Standards/Blanks: The ending continuing calibration standard had 4,4'-DDE, 4,4'-DDD, methoxychlor and endrin aldehyde recoveries outside the acceptance criteria. A positive bias is not suspected because the sample concentration was not detected for pesticides.

Form 8: Retention Time sequence: Met Criteria

Other observations:

Rashmi Makol _____ Date
Project Manager



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



NY ANALYTICAL SERVICES PROTOCOL

July 06, 2012

SDG I.D.: GBB93961

145 WEST STREET Galli Engineering

Conformance / Non-Conformance Summary

Semivolatile Organic Compounds

The samples were analyzed for a semivolatile list of compounds by GC/MS full scan.

1,2 diphenylhydrazine becomes Azobenzene upon injection into the GC/MS instrument.

Form 2: The surrogate recovery for Nitrobenzene-d5 for the sample WS A1 20 FT (BB93968) was below acceptance criteria due to possible matrix interference. All other surrogates met criteria, so no further action was taken.

Form 3: Lab Control Sample (LCS/LCSD) and Matrix Spike met criteria.

Criteria: 90% of compounds are within 30-130% for LCS/LCSD and MS/MSD.

Those compounds exceeding the range are flagged on the form III's.

Form 5: All DFTPP Tunes associated with this sample set met method criteria and sample analysis was performed within 12 hours of their injection.

Form 6: Initial calibration met ASP criteria for all target compounds (RSD and response factors).

Form 7: The continuing calibration standard(s) met ASP criteria for all target compounds (RSD and response factors) with the following exceptions:

CHEM09 0606_02: met criteria

CHEM09 0606_16: Hexachlorocyclopentadiene, 2,4-Dinitrophenol and 2-Nitroaniline did not meet the maximum allowed %D for a closing calibration standard of 50%.

Form 8: All internal standard areas and retention times met method criteria for all samples and associated QC samples.

Observations:

No other observations are noted.

Jonathon Carlson
Project Manager

Date



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
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NY ANALYTICAL SERVICES PROTOCOL

July 06, 2012

SDG I.D.: GBB93961

145 WEST STREET Galli Engineering

Conformance / Non-Conformance Summary

TCLP Semivolatile Organic Compounds

The semi volatile organic compounds were analyzed from the TCLP extract for the TCLP list of Semi volatile compounds.

Form 2: All sample and associated QC sample surrogate recoveries met method criteria.

Form 3: Lab Control Sample/Lab Control Sample Duplicate (LCS/LCSD) met criteria.

Criteria: 90% of compounds are within 30-130% for LCS/LCSD.

Those compounds exceeding the range are flagged on the form III's.

A LCS/LCSD was analyzed with this liquid batch.

Form 5: All DFTPP Tunes associated with this sample set met method criteria and sample analysis was performed within 12 hours of their injection.

Form 6: Initial calibration met ASP criteria for all target compounds (RSD and response factors). The minimum RRF was not met for Hexachlorobenzene for all points. The ASP criteria of "Up to 4 compounds from the initial calibration may fail the criteria...but they must meet the minimum requirements of a RRF greater than or equal to 0.010 and a %RSD of less than or equal to 40%." This criteria was met.

Form 7: The continuing calibration standard(s) met ASP criteria for all target compounds (RSD and response factors) with the following exceptions:

0615_21: The minimum RRF was not met for Hexachlorobenzene.

0615_30: met criteria

Form 8: All internal standard areas and retention times met method criteria for all samples and associated QC samples.

Observations: The client requested a shorter list of compounds than that provided in the raw data.

No other observations are noted.

Jonathon Carlson
Project Manager

Date



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



NY ANALYTICAL SERVICES PROTOCOL

July 06, 2012

SDG I.D.: GBB93961

145 WEST STREET Galli Engineering

Conformance / Non-Conformance Summary

Volatile Organic Compounds:

Form 2: All surrogate recoveries met ASP criteria.

Form 3: Laboratory Criteria for the Lab Control Sample/Lab Control Sample Duplicate (LCS/LCSD) and Matrix Spike/Matrix Spike Duplicate (MS/MSD): 90% of compounds are within 70-130% for LCS/LCSD and RPDs less than 30% (these limits are reflected on the form IIIs).

All QC associated with this sample set met ASP criteria. Compounds with recoveries and/or RPDs outside laboratory control limits are flagged with an asterisk on form III.

Form 5: BFB Tunes met method criteria. All samples and closing standards were analyzed within 12 hours from their injection.

Form 6: The initial calibration analyzed on 06/05/2012 for CHEM03 met ASP criteria for all target compounds.

Form 7: The continuing calibration standard 0606L58.D met ASP criteria for all target compounds. The closing continuing calibration standard 0607L03.D met ASP criteria for all target compounds. The continuing calibration standard 0607L07.D met ASP criteria for all target compounds. The closing continuing calibration standard 0607L52.D met ASP criteria for all target compounds. The continuing calibration standard 0611L04.D met ASP criteria for all target compounds, with the exception of Bromoform which did not meet the failing standard criteria of 50% max %D. The closing continuing calibration standard 0611L53.D met ASP criteria for all target compounds. The continuing calibration standard 0612L03.D met ASP criteria for all target compounds. The closing continuing calibration standard 0612L53.D met ASP criteria for all target compounds.

Form 8: All internal standard areas and retention times met method criteria.

Observations:

The client requested the 8260 compound list for this sample set. The client provided soil jars for this analysis. Low-level samples and high-level methanol extracts were prepared in the laboratory as per method 5035.

Due to matrix interference and/or the presence of a large amount of non-target material in the samples WS F1 0-15 FT (BB93961), WS C1 0-15 FT (BB93964), WS B1 0-15 FT (BB93965) and WS A1 0-15 FT (BB93966), only high-level purges were reported for the volatile analysis. Not all reporting objectives could be achieved.

The sample WS A1 20 FT (BB93968) was reported from a 10x dilution. The compound Naphthalene was reported from a 100x dilution. Not all reporting objectives could be achieved.

No other observations are noted.

Jonathon Carlson
Project Manager

Date

40 W/C + SP

NY/NJ CHAIN OF CUSTODY RECORD



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

Client Services (860) 645-8726

Customer: Graville Engineering Project: 145 West Street Project P.O.: _____
 Address: 234 West 14th Street Report to: _____ Phone #: _____
Metwila, NY 11747 Invoice to: _____ Fax #: _____

Client Sample - Information - Identification				Analysis Request	
Sampler's Signature	Date	Customer Identification	Sample Matrix	Date Sampled	Time Sampled
<u>J. DeLong</u>	<u>6/4/02</u>	<u>WS F-1 0-15"</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>WS F-1 0-15"</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>WS D-1 0-15"</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>WS C-1 0-15"</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>WS B-1 0-15"</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>WS A-1 0-15"</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>WS F-1-20'</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>WS A-1-20'</u>	<u>S</u>	<u>6/4</u>	<u>11:15</u>
		<u>TRIP Blank HL</u>	<u>HL</u>	<u>6/4</u>	<u>11:15</u>
		<u>TRIP Blank LL</u>	<u>LL</u>	<u>6/4</u>	<u>11:15</u>

Relinquished by: J. DeLong Accepted by: Graville Engineering
 Date: 6/6/02 Time: 11:20
 Date: 6/6/02 Time: 17:05

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

Res. Criteria ☐ TOGS GA GW ☐ Phoenix Std Report
 Non-Res. Criteria ☐ CP-51 Soil ☐ Excel
 Impact to GW Soil ☐ NY375 Unrestricted Soil ☐ PDF
 Cleanup Criteria ☐ NY375 Residential Soil ☐ GIS/Key
 GW Criteria ☐ NY375 Restricted Soil ☐ EQUIS
☐ NY375 Restricted Non-Residential Soil ☐ NJ Hazsite EDD
☐ NY375 Restricted Non-Residential Soil ☐ NY EZ EDD (ASP)
☐ Other

Data Format: ☒ Phoenix Std Report ☐ Excel ☐ PDF ☐ GIS/Key ☐ EQUIS ☐ NJ Hazsite EDD ☐ NY EZ EDD (ASP) ☐ Other

Data Package: ☐ NJ Reduced Deliv.* ☒ NY Enhanced (ASP B) ☐ Other

State where samples were collected: NY

Comments, Special Requirements or Regulations:

Temp _____ of _____

Data Delivery:

☐ Fax #:

☐ Email:

40 WLC-IP

NY/NJ CHAIN OF CUSTODY RECORD



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

Client Services (860) 645-8726

Customer: Crall's Environmental Project: 145 Lake St Street Project P.O.:
Address: 234 Lake St Street Report to:
Metrolab, NY 11747 Invoice to:
Phone #:
Fax #:

Client Sample - Information - Identification				Analysis Request	
Sampler's Signature <u>J. DeLong</u>		Date: <u>6/4/02</u>		WTS TRIP	

Relinquished by: J. DeLong Accepted by: Michael
Date: 6/6/02 Time: 11:20
Date: 6/6/02 Time: 17:05

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

NY ☐ TOGS GA GW ☐ CP-51 Soil ☒ NY375 Unrestricted Soil ☒ NY375 Residential Soil ☐ NY375 Restricted Non-Residential Soil

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

Data Format: ☒ Phoenix Std Report ☒ Excel ☐ PDF ☐ GIS/Key ☒ EQUIS ☐ NJ Hazsite EDD ☐ NY EZ EDD (ASP) ☐ Other

Data Package: ☐ NJ Reduced Deliv.* ☒ NY Enhanced (ASP B)* ☐ Other

State where samples were collected: NY

* Cancel Samples per Frank 6/6/02 (SM)



Friday, July 06, 2012

Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST STREET
Sample ID#s: BB96188 - BB96200, BB96203 - BB96204, BB96534

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



SDG Comments

July 06, 2012

SDG I.D.: GBB96188

BB96189 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96190 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96192 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96193 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96194 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96195 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96196 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96197 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96198 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96199 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96200 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96203 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.
BB96204 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96188

Project ID: 145 WEST STREET
Client ID: WS-S-1

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	06/12/12	EK	SW6010
Aluminum	3220	59	mg/Kg	06/13/12	LK	SW6010
Arsenic	5.50	0.79	mg/Kg	06/12/12	EK	SW6010
Barium	90.0	0.40	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.41	0.32	mg/Kg	06/12/12	EK	SW6010
Calcium	3470	5.9	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.40	0.40	mg/Kg	06/12/12	EK	SW6010
Cobalt	5.17	0.40	mg/Kg	06/12/12	EK	SW6010
Chromium	8.31	0.40	mg/Kg	06/12/12	EK	SW6010
Copper	41.8	0.40	mg/kg	06/12/12	EK	SW6010
Iron	10800	5.9	mg/Kg	06/12/12	EK	SW6010
Mercury	6.78	0.98	mg/Kg	06/12/12	RS	SW-7471
Potassium	421	5.9	mg/Kg	06/12/12	EK	SW6010
Magnesium	592	5.9	mg/Kg	06/12/12	EK	SW6010
Manganese	120	0.40	mg/Kg	06/12/12	EK	SW6010
Sodium	998	5.9	mg/Kg	06/12/12	EK	SW6010
Nickel	11.9	0.40	mg/Kg	06/12/12	EK	SW6010
Lead	126	0.40	mg/Kg	06/12/12	EK	SW6010
Antimony	< 4.0	4.0	mg/Kg	06/12/12	EK	SW6010
Selenium	< 5.0	5.0	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.6	3.6	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	16.0	0.40	mg/Kg	06/12/12	EK	SW6010
Zinc	94.9	0.40	mg/Kg	06/12/12	EK	SW6010
Percent Solid	82		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	610	ug/kg	06/12/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	610	ug/kg	06/12/12	H/J	SW8260
1,1,2-Trichloroethane	ND	610	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethane	ND	610	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethene	ND	610	ug/kg	06/12/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	610	ug/kg	06/12/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	610	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	610	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromoethane	ND	610	ug/kg	06/12/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	610	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloroethane	ND	610	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloropropane	ND	610	ug/kg	06/12/12	H/J	SW8260
1,3-Dichlorobenzene	ND	610	ug/kg	06/12/12	H/J	SW8260
1,4-Dichlorobenzene	ND	610	ug/kg	06/12/12	H/J	SW8260
2-Hexanone	ND	3000	ug/kg	06/12/12	H/J	SW8260
4-Methyl-2-pentanone	ND	3000	ug/kg	06/12/12	H/J	SW8260
Acetone	ND	6100	ug/kg	06/12/12	H/J	SW8260
Benzene	ND	610	ug/kg	06/12/12	H/J	SW8260
Bromochloromethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Bromodichloromethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Bromoform	ND	610	ug/kg	06/12/12	H/J	SW8260
Bromomethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Carbon Disulfide	ND	610	ug/kg	06/12/12	H/J	SW8260
Carbon tetrachloride	ND	610	ug/kg	06/12/12	H/J	SW8260
Chlorobenzene	ND	610	ug/kg	06/12/12	H/J	SW8260
Chloroethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Chloroform	ND	610	ug/kg	06/12/12	H/J	SW8260
Chloromethane	ND	610	ug/kg	06/12/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	610	ug/kg	06/12/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	610	ug/kg	06/12/12	H/J	SW8260 1
Cyclohexane	ND	610	ug/kg	06/12/12	H/J	SW8260 1P
Dibromochloromethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Dichlorodifluoromethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Ethylbenzene	ND	610	ug/kg	06/12/12	H/J	SW8260
Isopropylbenzene	ND	610	ug/kg	06/12/12	H/J	SW8260
m&p-Xylene	ND	610	ug/kg	06/12/12	H/J	SW8260
Methyl ethyl ketone	ND	3700	ug/kg	06/12/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	1200	ug/kg	06/12/12	H/J	SW8260
Methylacetate	ND	610	ug/kg	06/12/12	H/J	SW8260 1P
Methylcyclohexane	ND	610	ug/kg	06/12/12	H/J	SW8260 1P
Methylene chloride	ND	610	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	610	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	610	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	610	ug/kg	06/12/12	H/J	SW8260
Toluene	ND	610	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	610	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	610	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	610	ug/kg	06/12/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	610	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	610	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	610	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	104		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	94		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	101		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	96		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	10000	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	106		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	113		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	99		%	06/12/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	280	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	650	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	480	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	400	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	280	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	1400	280	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	1100	280	ug/Kg	06/12/12	DD	SW 8270
Acetophenone	ND	280	ug/Kg	06/12/12	DD	SW 8270
Anthracene	5700	280	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	280	ug/Kg	06/12/12	DD	SW 8270
Benz(a)anthracene	5700	280	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	280	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	5200	280	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	5600	280	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	2000	280	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	1700	280	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	400	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	5400	280	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	620	280	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	13000	280	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	1100	280	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	2000	280	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	2700	280	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	400	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	400	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	400	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	14000	280	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	11000	280	ug/Kg	06/12/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	98		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	69		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	61		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	92		%	06/12/12	DD	30 - 130 %	
% Phenol-d5	65		%	06/12/12	DD	15 - 130 %	
% Terphenyl-d14	81		%	06/12/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

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

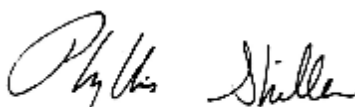
Comments:

Elevated reporting limits for volatiles due to the presence of non-target compounds.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96189

Project ID: 145 WEST STREET
Client ID: WS-S-2

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	06/12/12	EK	SW6010
Aluminum	7120	75	mg/Kg	06/13/12	LK	SW6010
Arsenic	12.0	1.0	mg/Kg	06/12/12	EK	SW6010
Barium	316	0.50	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.63	0.40	mg/Kg	06/12/12	EK	SW6010
Calcium	5100	7.5	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.50	0.50	mg/Kg	06/12/12	EK	SW6010
Cobalt	7.50	0.50	mg/Kg	06/12/12	EK	SW6010
Chromium	15.5	0.50	mg/Kg	06/12/12	EK	SW6010
Copper	142	0.50	mg/kg	06/12/12	EK	SW6010
Iron	18100	75	mg/Kg	06/13/12	LK	SW6010
Mercury	3.42	0.12	mg/Kg	06/12/12	RS	SW-7471
Potassium	932	7.5	mg/Kg	06/12/12	EK	SW6010
Magnesium	1490	7.5	mg/Kg	06/12/12	EK	SW6010
Manganese	72.8	0.50	mg/Kg	06/12/12	EK	SW6010
Sodium	3400	7.5	mg/Kg	06/12/12	EK	SW6010
Nickel	21.5	0.50	mg/Kg	06/12/12	EK	SW6010
Lead	700	5.0	mg/Kg	06/13/12	LK	SW6010
Antimony	< 5.0	5.0	mg/Kg	06/12/12	EK	SW6010
Selenium	< 2.0	2.0	mg/Kg	06/12/12	EK	SW6010
Thallium	< 4.5	4.5	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	29.3	0.50	mg/Kg	06/12/12	EK	SW6010
Zinc	191	0.50	mg/Kg	06/12/12	EK	SW6010
Percent Solid	62		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,1,2-Trichloroethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromoethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloroethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloropropane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,3-Dichlorobenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
1,4-Dichlorobenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
2-Hexanone	ND	40	ug/kg	06/13/12	H/J	SW8260
4-Methyl-2-pentanone	ND	40	ug/kg	06/13/12	H/J	SW8260
Acetone	ND	81	ug/kg	06/13/12	H/J	SW8260
Benzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Bromochloromethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Bromodichloromethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Bromoform	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Bromomethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Carbon Disulfide	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Carbon tetrachloride	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Chlorobenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Chloroethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Chloroform	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Chloromethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	8.1	ug/kg	06/13/12	H/J	SW8260 1
Cyclohexane	ND	8.1	ug/kg	06/13/12	H/J	SW8260 1P
Dibromochloromethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Dichlorodifluoromethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Ethylbenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Isopropylbenzene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
m&p-Xylene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Methyl ethyl ketone	ND	48	ug/kg	06/13/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	16	ug/kg	06/13/12	H/J	SW8260
Methylacetate	ND	8.1	ug/kg	06/13/12	H/J	SW8260 1P
Methylcyclohexane	ND	8.1	ug/kg	06/13/12	H/J	SW8260 1P
Methylene chloride	ND	8.1	ug/kg	06/13/12	H/J	SW8260
o-Xylene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Styrene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Tetrachloroethene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Toluene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Total Xylenes	ND	8.1	ug/kg	06/13/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	8.1	ug/kg	06/13/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Trichlorofluoromethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Trichlorotrifluoroethane	ND	8.1	ug/kg	06/13/12	H/J	SW8260
Vinyl chloride	ND	8.1	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	91		%	06/13/12	H/J	70 - 130 %
% Dibromofluoromethane	93		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	100		%	06/13/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	103		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	97		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	103		%	06/13/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	370	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	370	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	840	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	370	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	370	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	370	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	370	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	370	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	840	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	530	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	630	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	840	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1500	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	530	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	370	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	370	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	370	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	840	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1500	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	370	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	370	ug/Kg	06/12/12	DD	SW 8270
Acetophenone	ND	370	ug/Kg	06/12/12	DD	SW 8270
Anthracene	ND	370	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	370	ug/Kg	06/12/12	DD	SW 8270
Benz(a)anthracene	ND	370	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	370	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	530	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1500	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	530	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	370	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	530	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	530	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	370	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	ND	370	ug/Kg	06/12/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	90		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	62		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	73		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	70		%	06/12/12	DD	30 - 130 %	
% Phenol-d5	76		%	06/12/12	DD	15 - 130 %	
% Terphenyl-d14	79		%	06/12/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

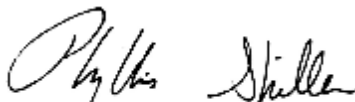
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/07/12 0:00
06/11/12 15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96190

Project ID: 145 WEST STREET
Client ID: WS-S-4

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	06/12/12	EK	SW6010
Aluminum	7840	65	mg/Kg	06/13/12	LK	SW6010
Arsenic	49.3	0.87	mg/Kg	06/12/12	EK	SW6010
Barium	225	0.44	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.46	0.35	mg/Kg	06/12/12	EK	SW6010
Calcium	25300	65	mg/Kg	06/13/12	LK	SW6010
Cadmium	< 0.44	0.44	mg/Kg	06/12/12	EK	SW6010
Cobalt	6.10	0.44	mg/Kg	06/12/12	EK	SW6010
Chromium	52.3	0.44	mg/Kg	06/12/12	EK	SW6010
Copper	40.5	0.44	mg/kg	06/12/12	EK	SW6010
Iron	18000	65	mg/Kg	06/13/12	LK	SW6010
Mercury	1.78	0.10	mg/Kg	06/12/12	RS	SW-7471
Potassium	2400	65	mg/Kg	06/13/12	LK	SW6010
Magnesium	3680	6.5	mg/Kg	06/12/12	EK	SW6010
Manganese	368	4.4	mg/Kg	06/13/12	LK	SW6010
Sodium	3220	6.5	mg/Kg	06/12/12	EK	SW6010
Nickel	17.2	0.44	mg/Kg	06/12/12	EK	SW6010
Lead	1740	44	mg/Kg	06/13/12	LK	SW6010
Antimony	< 8.0	8.0	mg/Kg	06/13/12	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.9	3.9	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	20.3	0.44	mg/Kg	06/12/12	EK	SW6010
Zinc	500	4.4	mg/Kg	06/13/12	LK	SW6010
Percent Solid	69		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,1,2-Trichloroethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromoethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloroethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloropropane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,3-Dichlorobenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
1,4-Dichlorobenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
2-Hexanone	ND	36	ug/kg	06/13/12	H/J	SW8260
4-Methyl-2-pentanone	ND	36	ug/kg	06/13/12	H/J	SW8260
Acetone	ND	72	ug/kg	06/13/12	H/J	SW8260
Benzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Bromochloromethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Bromodichloromethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Bromoform	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Bromomethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Carbon Disulfide	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Carbon tetrachloride	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Chlorobenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Chloroethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Chloroform	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Chloromethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	7.2	ug/kg	06/13/12	H/J	SW8260 1
Cyclohexane	ND	7.2	ug/kg	06/13/12	H/J	SW8260 1P
Dibromochloromethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Dichlorodifluoromethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Ethylbenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Isopropylbenzene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
m&p-Xylene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Methyl ethyl ketone	ND	43	ug/kg	06/13/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/kg	06/13/12	H/J	SW8260
Methylacetate	ND	7.2	ug/kg	06/13/12	H/J	SW8260 1P
Methylcyclohexane	ND	7.2	ug/kg	06/13/12	H/J	SW8260 1P
Methylene chloride	ND	7.2	ug/kg	06/13/12	H/J	SW8260
o-Xylene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Styrene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Tetrachloroethene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Toluene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Total Xylenes	ND	7.2	ug/kg	06/13/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	7.2	ug/kg	06/13/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Trichlorofluoromethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Trichlorotrifluoroethane	ND	7.2	ug/kg	06/13/12	H/J	SW8260
Vinyl chloride	ND	7.2	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	84		%	06/13/12	H/J	70 - 130 %
% Dibromofluoromethane	114		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	95		%	06/13/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	98		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	98		%	06/13/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	330	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	330	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	760	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	330	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	330	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	330	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	330	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	330	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	760	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	480	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	570	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	760	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1400	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	480	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	330	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	330	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	760	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1400	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	330	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	330	ug/Kg	06/12/12	DD	SW 8270
Acetophenone	ND	330	ug/Kg	06/12/12	DD	SW 8270
Anthracene	ND	330	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	330	ug/Kg	06/12/12	DD	SW 8270
Benz(a)anthracene	ND	330	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	330	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	480	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1400	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	630	330	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	480	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	330	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	480	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	480	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	330	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	ND	330	ug/Kg	06/12/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	95		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	82		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	77		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	80		%	06/12/12	DD	30 - 130 %	
% Phenol-d5	78		%	06/12/12	DD	15 - 130 %	
% Terphenyl-d14	107		%	06/12/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

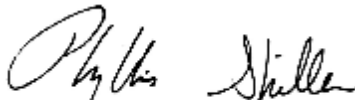
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/07/12 0:00
06/11/12 15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96191

Project ID: 145 WEST STREET
Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	06/11/12	SW	E160.3
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Volatiles

1,1,1-Trichloroethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,1,2-Trichloroethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,1-Dichloroethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,1-Dichloroethene	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,2,3-Trichlorobenzene	ND	250	ug/kg	06/12/12	H/J	SW8260	1
1,2,4-Trichlorobenzene	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,2-Dibromoethane	ND	250	ug/kg	06/12/12	H/J	SW8260	1P
1,2-Dichlorobenzene	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,2-Dichloroethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,2-Dichloropropane	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,3-Dichlorobenzene	ND	250	ug/kg	06/12/12	H/J	SW8260	
1,4-Dichlorobenzene	ND	250	ug/kg	06/12/12	H/J	SW8260	
2-Hexanone	ND	1300	ug/kg	06/12/12	H/J	SW8260	
4-Methyl-2-pentanone	ND	1300	ug/kg	06/12/12	H/J	SW8260	
Acetone	ND	2500	ug/kg	06/12/12	H/J	SW8260	
Benzene	ND	250	ug/kg	06/12/12	H/J	SW8260	
Bromochloromethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
Bromodichloromethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
Bromoform	ND	250	ug/kg	06/12/12	H/J	SW8260	
Bromomethane	ND	250	ug/kg	06/12/12	H/J	SW8260	
Carbon Disulfide	ND	250	ug/kg	06/12/12	H/J	SW8260	
Carbon tetrachloride	ND	250	ug/kg	06/12/12	H/J	SW8260	
Chlorobenzene	ND	250	ug/kg	06/12/12	H/J	SW8260	

Parameter	Result	RL	Units	Date/Time	By	Reference
Chloroethane	ND	250	ug/kg	06/12/12	H/J	SW8260
Chloroform	ND	250	ug/kg	06/12/12	H/J	SW8260
Chloromethane	ND	250	ug/kg	06/12/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/kg	06/12/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/kg	06/12/12	H/J	SW8260
Cyclohexane	ND	250	ug/kg	06/12/12	H/J	SW8260
Dibromochloromethane	ND	250	ug/kg	06/12/12	H/J	SW8260
Dichlorodifluoromethane	ND	250	ug/kg	06/12/12	H/J	SW8260
Ethylbenzene	ND	250	ug/kg	06/12/12	H/J	SW8260
Isopropylbenzene	ND	250	ug/kg	06/12/12	H/J	SW8260
m&p-Xylene	ND	250	ug/kg	06/12/12	H/J	SW8260
Methyl ethyl ketone	ND	1500	ug/kg	06/12/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	500	ug/kg	06/12/12	H/J	SW8260
Methylacetate	ND	250	ug/kg	06/12/12	H/J	SW8260
Methylcyclohexane	ND	250	ug/kg	06/12/12	H/J	SW8260
Methylene chloride	ND	500	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	250	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	250	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	250	ug/kg	06/12/12	H/J	SW8260
Toluene	ND	250	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	250	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/kg	06/12/12	H/J	SW8260
Trichloroethene	ND	250	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	250	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	250	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	92		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	102		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	96		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	5000	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	99		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	99		%	06/12/12	H/J	70 - 130 %

Project ID: 145 WEST STREET
Client ID: TRIP BLANK

Phoenix I.D.: BB96191

Parameter	Result	RL	Units	Date/Time	By	Reference

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

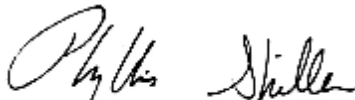
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/07/12 0:00
06/11/12 15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96192

Project ID: 145 WEST STREET
Client ID: WS-E2

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	06/14/12	EK	SW6010
Aluminum	8440	68	mg/Kg	06/14/12	EK	SW6010
Arsenic	7.13	0.90	mg/Kg	06/14/12	EK	SW6010
Barium	144	0.45	mg/Kg	06/14/12	EK	SW6010
Beryllium	< 0.36	0.36	mg/Kg	06/14/12	EK	SW6010
Calcium	7690	6.8	mg/Kg	06/14/12	EK	SW6010
Cadmium	< 0.45	0.45	mg/Kg	06/14/12	EK	SW6010
Cobalt	9.88	0.45	mg/Kg	06/14/12	EK	SW6010
Chromium	20.9	0.45	mg/Kg	06/14/12	EK	SW6010
Copper	66.3	0.45	mg/kg	06/14/12	EK	SW6010
Iron	36500	68	mg/Kg	06/14/12	EK	SW6010
Mercury	1.56	0.08	mg/Kg	06/13/12	RS	SW-7471
Potassium	1570	6.8	mg/Kg	06/14/12	EK	SW6010
Magnesium	2520	6.8	mg/Kg	06/14/12	EK	SW6010
Manganese	472	4.5	mg/Kg	06/14/12	EK	SW6010
Sodium	565	6.8	mg/Kg	06/14/12	EK	SW6010
Nickel	17.3	0.45	mg/Kg	06/14/12	EK	SW6010
Lead	155	0.45	mg/Kg	06/14/12	EK	SW6010
Antimony	< 4.5	4.5	mg/Kg	06/15/12	LK	SW6010
Selenium	< 1.8	1.8	mg/Kg	06/14/12	EK	SW6010
Thallium	< 4.1	4.1	mg/Kg	06/14/12	EK	SW6010
Total Metals Digest	Completed			06/12/12	AG	SW846 - 3050
Vanadium	31.4	0.45	mg/Kg	06/14/12	EK	SW6010
Zinc	129	0.45	mg/Kg	06/14/12	EK	SW6010
Percent Solid	78		%	06/12/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/12/12	RB/F	SW3545
Mercury Digestion	Completed			06/13/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/14/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1,2-Trichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromoethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloropropane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,3-Dichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,4-Dichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
2-Hexanone	ND	32	ug/kg	06/13/12	H/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/kg	06/13/12	H/J	SW8260
Acetone	ND	64	ug/kg	06/13/12	H/J	SW8260
Benzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromochloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromodichloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromoform	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromomethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Carbon Disulfide	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Carbon tetrachloride	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chloroform	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1
Cyclohexane	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
Dibromochloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Dichlorodifluoromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Ethylbenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Isopropylbenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
m&p-Xylene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Methyl ethyl ketone	ND	38	ug/kg	06/13/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	06/13/12	H/J	SW8260
Methylacetate	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
Methylcyclohexane	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
Methylene chloride	ND	6.4	ug/kg	06/13/12	H/J	SW8260
o-Xylene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Styrene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Tetrachloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Toluene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Total Xylenes	ND	6.4	ug/kg	06/13/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.4	ug/kg	06/13/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Trichlorofluoromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Trichlorotrifluoroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Vinyl chloride	ND	6.4	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	115		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	85		%	06/13/12	H/J	70 - 130 %
% Dibromofluoromethane	108		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	94		%	06/13/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	117		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	91		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	97		%	06/13/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/13/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	290	ug/Kg	06/13/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4-Dinitrophenol	ND	670	ug/Kg	06/13/12	DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Nitroaniline	ND	670	ug/Kg	06/13/12	DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	06/13/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	510	ug/Kg	06/13/12	DD	SW 8270
3-Nitroaniline	ND	670	ug/Kg	06/13/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/13/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	420	ug/Kg	06/13/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
4-Chloroaniline	ND	290	ug/Kg	06/13/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/13/12	DD	SW 8270
4-Nitroaniline	ND	670	ug/Kg	06/13/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	06/13/12	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	06/13/12	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	06/13/12	DD	SW 8270
Acetophenone	ND	290	ug/Kg	06/13/12	DD	SW 8270
Anthracene	ND	290	ug/Kg	06/13/12	DD	SW 8270
Atrazine	ND	290	ug/Kg	06/13/12	DD	SW 8270
Benz(a)anthracene	ND	290	ug/Kg	06/13/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	290	ug/Kg	06/13/12	DD	SW 8270	1P
Benzo(a)pyrene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Benzo(b)fluoranthene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Benzo(ghi)perylene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Benzyl butyl phthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	420	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Caprolactam	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/13/12	DD	SW 8270	
Chrysene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Dibenzofuran	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Diethyl phthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Dimethylphthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Di-n-butylphthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Di-n-octylphthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Fluoranthene	590	290	ug/Kg	06/13/12	DD	SW 8270	
Fluorene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachlorobenzene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachlorobutadiene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachloroethane	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Isophorone	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Naphthalene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Nitrobenzene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	420	ug/Kg	06/13/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	06/13/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	420	ug/Kg	06/13/12	DD	SW 8270	
Pentachlorophenol	ND	420	ug/Kg	06/13/12	DD	SW 8270	
Phenanthrene	580	290	ug/Kg	06/13/12	DD	SW 8270	
Phenol	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Pyrene	510	290	ug/Kg	06/13/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80		%	06/13/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	74		%	06/13/12	DD	30 - 130 %	
% 2-Fluorophenol	79		%	06/13/12	DD	15 - 130 %	
% Nitrobenzene-d5	70		%	06/13/12	DD	30 - 130 %	
% Phenol-d5	79		%	06/13/12	DD	15 - 130 %	
% Terphenyl-d14	89		%	06/13/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

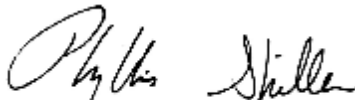
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96193

Project ID: 145 WEST STREET
Client ID: WS-E2 30 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	06/12/12	EK	SW6010
Aluminum	6930	54	mg/Kg	06/13/12	LK	SW6010
Arsenic	1.69	0.72	mg/Kg	06/12/12	EK	SW6010
Barium	49.8	0.36	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.69	0.29	mg/Kg	06/12/12	EK	SW6010
Calcium	354	5.4	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	06/12/12	EK	SW6010
Cobalt	10.9	0.36	mg/Kg	06/12/12	EK	SW6010
Chromium	35.3	0.36	mg/Kg	06/12/12	EK	SW6010
Copper	28.0	0.36	mg/kg	06/12/12	EK	SW6010
Iron	40400	54	mg/Kg	06/13/12	LK	SW6010
Mercury	< 0.09	0.09	mg/Kg	06/12/12	RS	SW-7471
Potassium	1970	54	mg/Kg	06/13/12	LK	SW6010
Magnesium	1900	5.4	mg/Kg	06/12/12	EK	SW6010
Manganese	242	3.6	mg/Kg	06/13/12	LK	SW6010
Sodium	448	5.4	mg/Kg	06/12/12	EK	SW6010
Nickel	23.5	0.36	mg/Kg	06/12/12	EK	SW6010
Lead	13.0	0.36	mg/Kg	06/12/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.2	3.2	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	44.0	0.36	mg/Kg	06/12/12	EK	SW6010
Zinc	54.9	0.36	mg/Kg	06/12/12	EK	SW6010
Percent Solid	86		%	06/11/12	JL	E160.3
Soil Extraction for PCB	Completed			06/11/12	JB/F	SW3545
Soil Extraction for Pesticide	Completed			06/11/12	JB	SW3545
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545

Parameter	Result	RL	Units	Date/Time	By	Reference
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Soil Extraction for Herbicide	Completed			06/11/12	M/D	SW8151

Chlorinated Herbicides

2,4,5-T	ND	48	ug/Kg	06/12/12	JRB	SW8151
2,4,5-TP (Silvex)	ND	48	ug/Kg	06/12/12	JRB	SW8151
2,4-D	ND	48	ug/Kg	06/12/12	JRB	SW8151
2,4-DB	ND	480	ug/Kg	06/12/12	JRB	SW8151
Dalapon	ND	48	ug/Kg	06/12/12	JRB	SW8151
Dicamba	ND	95	ug/Kg	06/12/12	JRB	SW8151
Dichloroprop	ND	48	ug/Kg	06/12/12	JRB	SW8151
Dinoseb	ND	95	ug/Kg	06/12/12	JRB	SW8151

QA/QC Surrogates

% DCAA	64		%	06/12/12	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1221	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1232	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1242	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1248	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1254	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1260	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1262	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1268	ND	380	ug/Kg	06/12/12	MH	SW 8082

QA/QC Surrogates

% DCBP	70		%	06/12/12	MH	30 - 150 %
% TCMX	74		%	06/12/12	MH	30 - 150 %

Pesticides

4,4' -DDD	ND	37	ug/Kg	06/12/12	KCA	SW8081
4,4' -DDE	ND	37	ug/Kg	06/12/12	KCA	SW8081
4,4' -DDT	ND	37	ug/Kg	06/12/12	KCA	SW8081
a-BHC	ND	18	ug/Kg	06/12/12	KCA	SW8081
Alachlor	ND	18	ug/Kg	06/12/12	KCA	SW8081
Aldrin	ND	5.7	ug/Kg	06/12/12	KCA	SW8081
b-BHC	ND	18	ug/Kg	06/12/12	KCA	SW8081
Chlordane	ND	57	ug/Kg	06/12/12	KCA	SW8081
d-BHC	ND	18	ug/Kg	06/12/12	KCA	SW8081
Dieldrin	ND	5.7	ug/Kg	06/12/12	KCA	SW8081
Endosulfan I	ND	18	ug/Kg	06/12/12	KCA	SW8081
Endosulfan II	ND	37	ug/Kg	06/12/12	KCA	SW8081
Endosulfan sulfate	ND	37	ug/Kg	06/12/12	KCA	SW8081
Endrin	ND	37	ug/Kg	06/12/12	KCA	SW8081
Endrin aldehyde	ND	37	ug/Kg	06/12/12	KCA	SW8081
Endrin ketone	ND	37	ug/Kg	06/12/12	KCA	SW8081
g-BHC	ND	5.7	ug/Kg	06/12/12	KCA	SW8081
Heptachlor	ND	11	ug/Kg	06/12/12	KCA	SW8081
Heptachlor epoxide	ND	18	ug/Kg	06/12/12	KCA	SW8081
Methoxychlor	ND	180	ug/Kg	06/12/12	KCA	SW8081
Toxaphene	ND	180	ug/Kg	06/12/12	KCA	SW8081

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	70		%	06/12/12	KCA	30 - 150 %
% TCMX	78		%	06/12/12	KCA	30 - 150 %
Volatile Library Search Top 10	Completed			06/12/12	H/J	
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromoethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
2-Hexanone	ND	29	ug/kg	06/12/12	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/kg	06/12/12	H/J	SW8260
Acetone	ND	58	ug/kg	06/12/12	H/J	SW8260
Benzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Bromochloromethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Bromodichloromethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Bromoform	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Bromomethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Carbon Disulfide	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Carbon tetrachloride	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Chlorobenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Chloroethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Chloroform	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Chloromethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Cyclohexane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Dibromochloromethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Ethylbenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Isopropylbenzene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
m&p-Xylene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Methyl ethyl ketone	ND	35	ug/kg	06/12/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	06/12/12	H/J	SW8260
Methylacetate	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Methylcyclohexane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Methylene chloride	ND	5.8	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	5.8	ug/kg	06/12/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	5.8	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Trichloroethene	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	5.8	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	91		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	94		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	101		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	103		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	97		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	105		%	06/12/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	270	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	610	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	610	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	460	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	610	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	610	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference
Acetophenone	ND	270	ug/Kg	06/12/12	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	270	ug/Kg	06/12/12	DD	SW 8270 1P
Benz(a)anthracene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Benzaldehyde	ND	270	ug/Kg	06/12/12	DD	SW 8270 1P
Benzo(a)pyrene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/12/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	380	ug/Kg	06/12/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/12/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270
Caprolactam	ND	270	ug/Kg	06/12/12	DD	SW 8270
Carbazole	ND	1100	ug/Kg	06/12/12	DD	SW 8270
Chrysene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	06/12/12	DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	06/12/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Isophorone	ND	270	ug/Kg	06/12/12	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodimethylamine	ND	380	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	06/12/12	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	06/12/12	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Phenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
Pyrene	ND	270	ug/Kg	06/12/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	86		%	06/12/12	DD	15 - 130 %
% 2-Fluorobiphenyl	75		%	06/12/12	DD	30 - 130 %
% 2-Fluorophenol	71		%	06/12/12	DD	15 - 130 %
% Nitrobenzene-d5	74		%	06/12/12	DD	30 - 130 %
% Phenol-d5	72		%	06/12/12	DD	15 - 130 %
% Terphenyl-d14	97		%	06/12/12	DD	30 - 130 %

Project ID: 145 WEST STREET
Client ID: WS-E2 30 FT

Phoenix I.D.: BB96193

Parameter	Result	RL	Units	Date/Time	By	Reference

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

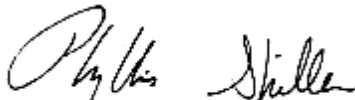
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96194

Project ID: 145 WEST STREET
Client ID: WS-F2

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	06/12/12	EK	SW6010
Aluminum	7130	62	mg/Kg	06/13/12	LK	SW6010
Arsenic	10.5	0.82	mg/Kg	06/12/12	EK	SW6010
Barium	209	0.41	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.39	0.33	mg/Kg	06/12/12	EK	SW6010
Calcium	6080	6.2	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	06/12/12	EK	SW6010
Cobalt	81.5	0.41	mg/Kg	06/12/12	EK	SW6010
Chromium	32.0	0.41	mg/Kg	06/12/12	EK	SW6010
Copper	151	0.41	mg/kg	06/12/12	EK	SW6010
Iron	27100	62	mg/Kg	06/13/12	LK	SW6010
Mercury	< 0.10	0.10	mg/Kg	06/12/12	RS	SW-7471
Potassium	1650	62	mg/Kg	06/13/12	LK	SW6010
Magnesium	4540	6.2	mg/Kg	06/12/12	EK	SW6010
Manganese	215	4.1	mg/Kg	06/13/12	LK	SW6010
Sodium	347	6.2	mg/Kg	06/12/12	EK	SW6010
Nickel	31.4	0.41	mg/Kg	06/12/12	EK	SW6010
Lead	673	4.1	mg/Kg	06/13/12	LK	SW6010
Antimony	< 4.1	4.1	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.7	3.7	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	26.2	0.41	mg/Kg	06/12/12	EK	SW6010
Zinc	136	0.41	mg/Kg	06/12/12	EK	SW6010
Percent Solid	80		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromoethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
2-Hexanone	ND	31	ug/kg	06/12/12	H/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/kg	06/12/12	H/J	SW8260
Acetone	ND	63	ug/kg	06/12/12	H/J	SW8260
Benzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Bromochloromethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Bromodichloromethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Bromoform	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Bromomethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Carbon Disulfide	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Carbon tetrachloride	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Chlorobenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Chloroethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Chloroform	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Chloromethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/kg	06/12/12	H/J	SW8260 1
Cyclohexane	ND	6.3	ug/kg	06/12/12	H/J	SW8260 1P
Dibromochloromethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Ethylbenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Isopropylbenzene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
m&p-Xylene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Methyl ethyl ketone	ND	38	ug/kg	06/12/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	06/12/12	H/J	SW8260
Methylacetate	ND	6.3	ug/kg	06/12/12	H/J	SW8260 1P
Methylcyclohexane	ND	6.3	ug/kg	06/12/12	H/J	SW8260 1P
Methylene chloride	ND	6.3	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Toluene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	6.3	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/kg	06/12/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	6.3	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	97		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	94		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	124		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	97		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	100		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	100		%	06/12/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	290	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	650	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	490	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	410	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	290	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	06/12/12	DD	SW 8270
Acetophenone	ND	290	ug/Kg	06/12/12	DD	SW 8270
Anthracene	520	290	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	290	ug/Kg	06/12/12	DD	SW 8270
Benz(a)anthracene	980	290	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	290	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	610	290	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	750	290	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	300	290	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	410	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	700	290	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	1700	290	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	290	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	410	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	410	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	410	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	1800	290	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	290	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	1700	290	ug/Kg	06/12/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	102		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	80		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	81		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	77		%	06/12/12	DD	30 - 130 %	
% Phenol-d5	80		%	06/12/12	DD	15 - 130 %	
% Terphenyl-d14	94		%	06/12/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

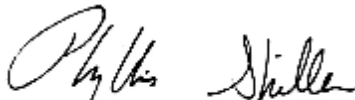
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96195

Project ID: 145 WEST STREET
Client ID: WS-F2 30 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	06/12/12	EK	SW6010
Aluminum	7720	53	mg/Kg	06/13/12	LK	SW6010
Arsenic	2.11	0.70	mg/Kg	06/12/12	EK	SW6010
Barium	44.7	0.35	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.60	0.28	mg/Kg	06/12/12	EK	SW6010
Calcium	468	5.3	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	06/12/12	EK	SW6010
Cobalt	7.42	0.35	mg/Kg	06/12/12	EK	SW6010
Chromium	28.4	0.35	mg/Kg	06/12/12	EK	SW6010
Copper	21.0	0.35	mg/kg	06/12/12	EK	SW6010
Iron	35200	53	mg/Kg	06/13/12	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	06/12/12	RS	SW-7471
Potassium	2570	53	mg/Kg	06/13/12	LK	SW6010
Magnesium	2210	5.3	mg/Kg	06/12/12	EK	SW6010
Manganese	166	3.5	mg/Kg	06/13/12	LK	SW6010
Sodium	429	5.3	mg/Kg	06/12/12	EK	SW6010
Nickel	15.2	0.35	mg/Kg	06/12/12	EK	SW6010
Lead	16.2	0.35	mg/Kg	06/12/12	EK	SW6010
Antimony	< 3.5	3.5	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.2	3.2	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	40.4	0.35	mg/Kg	06/12/12	EK	SW6010
Zinc	56.4	0.35	mg/Kg	06/12/12	EK	SW6010
Percent Solid	88		%	06/11/12	JL	E160.3
Soil Extraction for PCB	Completed			06/11/12	JB/F	SW3545
Soil Extraction for Pesticide	Completed			06/11/12	JB	SW3545
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545

Parameter	Result	RL	Units	Date/Time	By	Reference
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Soil Extraction for Herbicide	Completed			06/11/12	M/D	SW8151

Chlorinated Herbicides

2,4,5-T	ND	47	ug/Kg	06/12/12	JRB	SW8151
2,4,5-TP (Silvex)	ND	47	ug/Kg	06/12/12	JRB	SW8151
2,4-D	ND	47	ug/Kg	06/12/12	JRB	SW8151
2,4-DB	ND	470	ug/Kg	06/12/12	JRB	SW8151
Dalapon	ND	47	ug/Kg	06/12/12	JRB	SW8151
Dicamba	ND	94	ug/Kg	06/12/12	JRB	SW8151
Dichloroprop	ND	47	ug/Kg	06/12/12	JRB	SW8151
Dinoseb	ND	94	ug/Kg	06/12/12	JRB	SW8151

QA/QC Surrogates

% DCAA	68		%	06/12/12	JRB	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1221	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1232	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1242	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1248	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1254	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1260	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1262	ND	380	ug/Kg	06/12/12	MH	SW 8082
PCB-1268	ND	380	ug/Kg	06/12/12	MH	SW 8082

QA/QC Surrogates

% DCBP	79		%	06/12/12	MH	30 - 150 %
% TCMX	80		%	06/12/12	MH	30 - 150 %

Pesticides

4,4' -DDD	ND	36	ug/Kg	06/12/12	KCA	SW8081
4,4' -DDE	ND	36	ug/Kg	06/12/12	KCA	SW8081
4,4' -DDT	ND	36	ug/Kg	06/12/12	KCA	SW8081
a-BHC	ND	18	ug/Kg	06/12/12	KCA	SW8081
Alachlor	ND	18	ug/Kg	06/12/12	KCA	SW8081
Aldrin	ND	5.6	ug/Kg	06/12/12	KCA	SW8081
b-BHC	ND	18	ug/Kg	06/12/12	KCA	SW8081
Chlordane	ND	56	ug/Kg	06/12/12	KCA	SW8081
d-BHC	ND	18	ug/Kg	06/12/12	KCA	SW8081
Dieldrin	ND	5.6	ug/Kg	06/12/12	KCA	SW8081
Endosulfan I	ND	18	ug/Kg	06/12/12	KCA	SW8081
Endosulfan II	ND	36	ug/Kg	06/12/12	KCA	SW8081
Endosulfan sulfate	ND	36	ug/Kg	06/12/12	KCA	SW8081
Endrin	ND	36	ug/Kg	06/12/12	KCA	SW8081
Endrin aldehyde	ND	36	ug/Kg	06/12/12	KCA	SW8081
Endrin ketone	ND	36	ug/Kg	06/12/12	KCA	SW8081
g-BHC	ND	5.6	ug/Kg	06/12/12	KCA	SW8081
Heptachlor	ND	11	ug/Kg	06/12/12	KCA	SW8081
Heptachlor epoxide	ND	18	ug/Kg	06/12/12	KCA	SW8081
Methoxychlor	ND	180	ug/Kg	06/12/12	KCA	SW8081
Toxaphene	ND	180	ug/Kg	06/12/12	KCA	SW8081

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	77		%	06/12/12	KCA	30 - 150 %
% TCMX	89		%	06/12/12	KCA	30 - 150 %
Volatile Library Search Top 10	Completed			06/12/12	H/J	
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
2-Hexanone	ND	28	ug/kg	06/12/12	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/kg	06/12/12	H/J	SW8260
Acetone	ND	57	ug/kg	06/12/12	H/J	SW8260
Benzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Bromochloromethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Bromodichloromethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Bromoform	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Bromomethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Carbon Disulfide	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Chlorobenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Chloroethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Chloroform	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Chloromethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Cyclohexane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Dibromochloromethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Ethylbenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Isopropylbenzene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
m&p-Xylene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Methyl ethyl ketone	ND	34	ug/kg	06/12/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/kg	06/12/12	H/J	SW8260
Methylacetate	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Methylcyclohexane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Methylene chloride	ND	5.7	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	5.7	ug/kg	06/12/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Toluene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	5.7	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Trichloroethene	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	5.7	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	89		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	92		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	100		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	95		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	104		%	06/12/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	260	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	450	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	600	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	06/12/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	260	ug/Kg	06/12/12	DD	SW 8270 1P
Benz(a)anthracene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Benzaldehyde	ND	260	ug/Kg	06/12/12	DD	SW 8270 1P
Benzo(a)pyrene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	06/12/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	06/12/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	380	ug/Kg	06/12/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	06/12/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	06/12/12	DD	SW 8270
Caprolactam	ND	260	ug/Kg	06/12/12	DD	SW 8270
Carbazole	ND	1100	ug/Kg	06/12/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	06/12/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	06/12/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	06/12/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	06/12/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	06/12/12	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	06/12/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	06/12/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodimethylamine	ND	380	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	06/12/12	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	06/12/12	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	06/12/12	DD	SW 8270
Phenol	ND	260	ug/Kg	06/12/12	DD	SW 8270
Pyrene	ND	260	ug/Kg	06/12/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	93		%	06/12/12	DD	15 - 130 %
% 2-Fluorobiphenyl	80		%	06/12/12	DD	30 - 130 %
% 2-Fluorophenol	82		%	06/12/12	DD	15 - 130 %
% Nitrobenzene-d5	80		%	06/12/12	DD	30 - 130 %
% Phenol-d5	81		%	06/12/12	DD	15 - 130 %
% Terphenyl-d14	87		%	06/12/12	DD	30 - 130 %

Parameter	Result	RL	Units	Date/Time	By	Reference

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

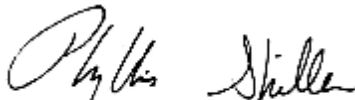
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96196

Project ID: 145 WEST STREET
Client ID: WS-F3

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	06/12/12	EK	SW6010
Aluminum	5070	54	mg/Kg	06/13/12	LK	SW6010
Arsenic	1.23	0.73	mg/Kg	06/12/12	EK	SW6010
Barium	27.4	0.36	mg/Kg	06/12/12	EK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	06/12/12	EK	SW6010
Calcium	2020	5.4	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	06/12/12	EK	SW6010
Cobalt	6.26	0.36	mg/Kg	06/12/12	EK	SW6010
Chromium	11.6	0.36	mg/Kg	06/12/12	EK	SW6010
Copper	12.2	0.36	mg/kg	06/12/12	EK	SW6010
Iron	12300	54	mg/Kg	06/13/12	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	06/12/12	RS	SW-7471
Potassium	850	54	mg/Kg	06/13/12	LK	SW6010
Magnesium	2410	5.4	mg/Kg	06/12/12	EK	SW6010
Manganese	117	0.36	mg/Kg	06/12/12	EK	SW6010
Sodium	153	5.4	mg/Kg	06/12/12	EK	SW6010
Nickel	8.15	0.36	mg/Kg	06/12/12	EK	SW6010
Lead	27.9	0.36	mg/Kg	06/12/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.3	3.3	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	16.2	0.36	mg/Kg	06/12/12	EK	SW6010
Zinc	34.4	0.36	mg/Kg	06/12/12	EK	SW6010
Percent Solid	85		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
2-Hexanone	ND	29	ug/kg	06/12/12	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/kg	06/12/12	H/J	SW8260
Acetone	ND	59	ug/kg	06/12/12	H/J	SW8260
Benzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Bromochloromethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Bromodichloromethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Bromoform	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Bromomethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Carbon Disulfide	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Carbon tetrachloride	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Chlorobenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Chloroethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Chloroform	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Chloromethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/kg	06/12/12	H/J	SW8260 1
Cyclohexane	ND	5.9	ug/kg	06/12/12	H/J	SW8260 1P
Dibromochloromethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Ethylbenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Isopropylbenzene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
m&p-Xylene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Methyl ethyl ketone	ND	35	ug/kg	06/12/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	06/12/12	H/J	SW8260
Methylacetate	ND	5.9	ug/kg	06/12/12	H/J	SW8260 1P
Methylcyclohexane	ND	5.9	ug/kg	06/12/12	H/J	SW8260 1P
Methylene chloride	ND	5.9	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Toluene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	5.9	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/kg	06/12/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	5.9	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	93		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	127		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	98		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	98		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	102		%	06/12/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	270	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	620	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	620	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	460	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	620	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	620	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Acetophenone	ND	270	ug/Kg	06/12/12	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	270	ug/Kg	06/12/12	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	270	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1100	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	390	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	390	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	390	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	270	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	ND	270	ug/Kg	06/12/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	97		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	79		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	81		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	75		%	06/12/12	DD	30 - 130 %	
% Phenol-d5	81		%	06/12/12	DD	15 - 130 %	
% Terphenyl-d14	94		%	06/12/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

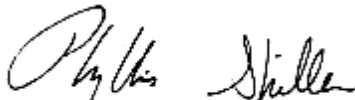
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96197

Project ID: 145 WEST STREET
Client ID: WS-F4

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	06/14/12	EK	SW6010
Aluminum	5670	66	mg/Kg	06/14/12	EK	SW6010
Arsenic	10.6	0.88	mg/Kg	06/14/12	EK	SW6010
Barium	440	0.44	mg/Kg	06/14/12	EK	SW6010
Beryllium	< 0.35	0.35	mg/Kg	06/14/12	EK	SW6010
Calcium	7010	6.6	mg/Kg	06/14/12	EK	SW6010
Cadmium	< 0.44	0.44	mg/Kg	06/14/12	EK	SW6010
Cobalt	6.25	0.44	mg/Kg	06/14/12	EK	SW6010
Chromium	17.2	0.44	mg/Kg	06/14/12	EK	SW6010
Copper	265	4.4	mg/kg	06/14/12	EK	SW6010
Iron	21300	66	mg/Kg	06/14/12	EK	SW6010
Mercury	0.52	0.10	mg/Kg	06/13/12	RS	SW-7471
Potassium	847	6.6	mg/Kg	06/14/12	EK	SW6010
Magnesium	2140	6.6	mg/Kg	06/14/12	EK	SW6010
Manganese	377	4.4	mg/Kg	06/14/12	EK	SW6010
Sodium	153	6.6	mg/Kg	06/14/12	EK	SW6010
Nickel	15.9	0.44	mg/Kg	06/14/12	EK	SW6010
Lead	1020	4.4	mg/Kg	06/14/12	EK	SW6010
Antimony	< 4.4	4.4	mg/Kg	06/15/12	LK	SW6010
Selenium	< 1.8	1.8	mg/Kg	06/14/12	EK	SW6010
Thallium	< 4.0	4.0	mg/Kg	06/14/12	EK	SW6010
Total Metals Digest	Completed			06/12/12	AG	SW846 - 3050
Vanadium	15.5	0.44	mg/Kg	06/14/12	EK	SW6010
Zinc	219	4.4	mg/Kg	06/14/12	EK	SW6010
Percent Solid	80		%	06/12/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/12/12	RB/F	SW3545
Mercury Digestion	Completed			06/13/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/14/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	310	ug/kg	06/13/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	310	ug/kg	06/13/12	H/J	SW8260
1,1,2-Trichloroethane	ND	310	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethane	ND	310	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethene	ND	310	ug/kg	06/13/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	310	ug/kg	06/13/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	310	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	310	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromoethane	ND	310	ug/kg	06/13/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	310	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloroethane	ND	310	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloropropane	ND	310	ug/kg	06/13/12	H/J	SW8260
1,3-Dichlorobenzene	ND	310	ug/kg	06/13/12	H/J	SW8260
1,4-Dichlorobenzene	ND	310	ug/kg	06/13/12	H/J	SW8260
2-Hexanone	ND	1600	ug/kg	06/13/12	H/J	SW8260
4-Methyl-2-pentanone	ND	1600	ug/kg	06/13/12	H/J	SW8260
Acetone	ND	3100	ug/kg	06/13/12	H/J	SW8260
Benzene	ND	310	ug/kg	06/13/12	H/J	SW8260
Bromochloromethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Bromodichloromethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Bromoform	ND	310	ug/kg	06/13/12	H/J	SW8260
Bromomethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Carbon Disulfide	ND	310	ug/kg	06/13/12	H/J	SW8260
Carbon tetrachloride	ND	310	ug/kg	06/13/12	H/J	SW8260
Chlorobenzene	ND	310	ug/kg	06/13/12	H/J	SW8260
Chloroethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Chloroform	ND	310	ug/kg	06/13/12	H/J	SW8260
Chloromethane	ND	310	ug/kg	06/13/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	310	ug/kg	06/13/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	310	ug/kg	06/13/12	H/J	SW8260 1
Cyclohexane	ND	310	ug/kg	06/13/12	H/J	SW8260 1P
Dibromochloromethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Dichlorodifluoromethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Ethylbenzene	ND	310	ug/kg	06/13/12	H/J	SW8260
Isopropylbenzene	ND	310	ug/kg	06/13/12	H/J	SW8260
m&p-Xylene	ND	310	ug/kg	06/13/12	H/J	SW8260
Methyl ethyl ketone	ND	1900	ug/kg	06/13/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	630	ug/kg	06/13/12	H/J	SW8260
Methylacetate	ND	310	ug/kg	06/13/12	H/J	SW8260 1P
Methylcyclohexane	680	310	ug/kg	06/13/12	H/J	SW8260 1P
Methylene chloride	ND	310	ug/kg	06/13/12	H/J	SW8260
o-Xylene	ND	310	ug/kg	06/13/12	H/J	SW8260
Styrene	ND	310	ug/kg	06/13/12	H/J	SW8260
Tetrachloroethene	ND	310	ug/kg	06/13/12	H/J	SW8260
Toluene	ND	310	ug/kg	06/13/12	H/J	SW8260
Total Xylenes	ND	310	ug/kg	06/13/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	310	ug/kg	06/13/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	310	ug/kg	06/13/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	310	ug/kg	06/13/12	H/J	SW8260
Trichlorofluoromethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Trichlorotrifluoroethane	ND	310	ug/kg	06/13/12	H/J	SW8260
Vinyl chloride	ND	310	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	91		%	06/13/12	H/J	70 - 130 %
% Dibromofluoromethane	105		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	95		%	06/13/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	5000	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	113		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	98		%	06/13/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/13/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	290	ug/Kg	06/13/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,4-Dinitrophenol	ND	660	ug/Kg	06/13/12	DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Methylnaphthalene	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	06/13/12	DD	SW 8270
2-Nitroaniline	ND	660	ug/Kg	06/13/12	DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	06/13/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	490	ug/Kg	06/13/12	DD	SW 8270
3-Nitroaniline	ND	660	ug/Kg	06/13/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/13/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	410	ug/Kg	06/13/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	06/13/12	DD	SW 8270
4-Chloroaniline	ND	290	ug/Kg	06/13/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	06/13/12	DD	SW 8270
4-Nitroaniline	ND	660	ug/Kg	06/13/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	06/13/12	DD	SW 8270
Acenaphthene	1100	290	ug/Kg	06/13/12	DD	SW 8270
Acenaphthylene	300	290	ug/Kg	06/13/12	DD	SW 8270
Acetophenone	ND	290	ug/Kg	06/13/12	DD	SW 8270
Anthracene	2800	290	ug/Kg	06/13/12	DD	SW 8270
Atrazine	ND	290	ug/Kg	06/13/12	DD	SW 8270
Benz(a)anthracene	6300	290	ug/Kg	06/13/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	290	ug/Kg	06/13/12	DD	SW 8270	1P
Benzo(a)pyrene	6200	290	ug/Kg	06/13/12	DD	SW 8270	
Benzo(b)fluoranthene	8100	290	ug/Kg	06/13/12	DD	SW 8270	
Benzo(ghi)perylene	2400	290	ug/Kg	06/13/12	DD	SW 8270	
Benzo(k)fluoranthene	1900	290	ug/Kg	06/13/12	DD	SW 8270	
Benzyl butyl phthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	410	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Caprolactam	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Carbazole	1300	1200	ug/Kg	06/13/12	DD	SW 8270	
Chrysene	5400	290	ug/Kg	06/13/12	DD	SW 8270	
Dibenz(a,h)anthracene	700	290	ug/Kg	06/13/12	DD	SW 8270	
Dibenzofuran	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Diethyl phthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Dimethylphthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Di-n-butylphthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Di-n-octylphthalate	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Fluoranthene	13000	290	ug/Kg	06/13/12	DD	SW 8270	
Fluorene	1100	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachlorobenzene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachlorobutadiene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Hexachloroethane	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	2200	290	ug/Kg	06/13/12	DD	SW 8270	
Isophorone	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Naphthalene	490	290	ug/Kg	06/13/12	DD	SW 8270	
Nitrobenzene	ND	290	ug/Kg	06/13/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	410	ug/Kg	06/13/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	06/13/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	410	ug/Kg	06/13/12	DD	SW 8270	
Pentachlorophenol	ND	410	ug/Kg	06/13/12	DD	SW 8270	
Phenanthrene	10000	290	ug/Kg	06/13/12	DD	SW 8270	
Phenol	ND	290	ug/Kg	06/13/12	DD	SW 8270	
Pyrene	12000	290	ug/Kg	06/13/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	78		%	06/13/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	80		%	06/13/12	DD	30 - 130 %	
% 2-Fluorophenol	80		%	06/13/12	DD	15 - 130 %	
% Nitrobenzene-d5	75		%	06/13/12	DD	30 - 130 %	
% Phenol-d5	78		%	06/13/12	DD	15 - 130 %	
% Terphenyl-d14	95		%	06/13/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

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

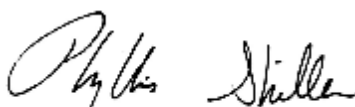
Comments:

Elevated reporting limits for volatiles due to the presence of target and non-target compounds.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96198

Project ID: 145 WEST STREET
Client ID: WS-D4

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	06/12/12	EK	SW6010
Aluminum	3900	54	mg/Kg	06/13/12	LK	SW6010
Arsenic	6.71	0.72	mg/Kg	06/12/12	EK	SW6010
Barium	77.4	0.36	mg/Kg	06/12/12	EK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	06/12/12	EK	SW6010
Calcium	3340	5.4	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	06/12/12	EK	SW6010
Cobalt	5.98	0.36	mg/Kg	06/12/12	EK	SW6010
Chromium	10.2	0.36	mg/Kg	06/12/12	EK	SW6010
Copper	89.2	0.36	mg/kg	06/12/12	EK	SW6010
Iron	23000	54	mg/Kg	06/13/12	LK	SW6010
Mercury	0.29	0.09	mg/Kg	06/12/12	RS	SW-7471
Potassium	806	54	mg/Kg	06/13/12	LK	SW6010
Magnesium	1270	5.4	mg/Kg	06/12/12	EK	SW6010
Manganese	213	3.6	mg/Kg	06/13/12	LK	SW6010
Sodium	245	5.4	mg/Kg	06/12/12	EK	SW6010
Nickel	16.2	0.36	mg/Kg	06/12/12	EK	SW6010
Lead	353	3.6	mg/Kg	06/13/12	LK	SW6010
Antimony	< 8.0	8.0	mg/Kg	06/13/12	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	06/12/12	EK	SW6010
TCLP Silver	< 0.10	0.10	mg/L	06/15/12	LK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/15/12	LK	SW6010
TCLP Barium	0.40	0.10	mg/L	06/15/12	LK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/15/12	LK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/15/12	LK	SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/14/12	RS	SW7470
TCLP Lead	0.31	0.10	mg/L	06/15/12	LK	SW6010
TCLP Selenium	< 0.10	0.10	mg/L	06/15/12	LK	SW6010

Parameter	Result	RL	Units	Date/Time	By	Reference	
Thallium	< 3.2	3.2	mg/Kg	06/12/12	EK	SW6010	
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050	
TCLP Metals Digestion	Completed			06/14/12	X/X	SW3005	
Vanadium	12.7	0.36	mg/Kg	06/12/12	EK	SW6010	
Zinc	215	3.6	mg/Kg	06/13/12	LK	SW6010	
Percent Solid	82		%	06/11/12	JL	E160.3	
Corrosivity	Negative	NONE	None	06/13/12	O/EG	SM 2330	1
Flash Point	>200	200	degree F	06/15/12	Y	SW1010	
Ignitability	Passed	140	deg F	06/15/12	Y	SW1010	
pH - Soil	7.65	0.10	pH Units	06/13/12 23:00	O/EG	4500-H B/9045	1
Reactivity Cyanide	< 6.0	6.0	mg/Kg	06/14/12	JL/GD	SW 846-7.3	1
Reactivity Sulfide	< 20	20	mg/Kg	06/14/12	JL/GD	SW846-7.3	1
Reactivity	Negative		Pos/Neg	06/14/12	JL/GD	SW 846-7.3	1
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545	
Mercury Digestion	Completed			06/12/12	X/X	SW7471	
Extraction of NJ QAM-025	Completed			06/13/12	JS/D	3545	
TCLP Digestion Mercury	Completed			06/14/12	X/X	E1311/7470	
TCLP Herbicides Extraction	Completed			06/15/12	D	SW8150 Mod	
TCLP Extraction for Metals	Completed			06/13/12	x	EPA 1311	
TCLP Extraction for Organics	Completed			06/13/12	x	1311	
TCLP Pesticides Extraction	Completed			06/14/12	L	SW3510	
TCLP Semi-Volatile Extraction	Completed			06/14/12	L	SW3510	
TCLP Extraction Volatiles	Completed			06/13/12	y	EPA 1311	

TPH by GC (QAM-025)

Total Petroleum Hydrocarbon	120	90	mg/Kg	06/15/12	JRB	QAM-025	1
<u>QA/QC Surrogates</u>							
% Chlorobenzene (surrogate)	45		%	06/15/12	JRB	50 - 150 %	3
% Pentacosane (surrogate)	71		%	06/15/12	JRB	50 - 150 %	

TCLP Herbicides

2,4,5-TP (Silvex)	ND	4.2	ug/L	06/18/12	JRB	SW8151	
2,4-D	ND	4.2	ug/L	06/18/12	JRB	SW8151	

QA/QC Surrogates

% DCAA	95		%	06/18/12	JRB	30 - 150 %	

TCLP Pesticides

4,4' -DDD	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
4,4' -DDE	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
4,4' -DDT	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
a-BHC	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Alachlor	ND	0.05	ug/L	06/18/12	KCA	SW 8081	1
Aldrin	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
b-BHC	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Chlordane	ND	0.3	ug/L	06/18/12	KCA	SW 8081	
d-BHC	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Dieldrin	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
Endosulfan I	ND	0.05	ug/L	06/18/12	KCA	SW 8081	
Endosulfan II	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
Endosulfan Sulfate	ND	0.1	ug/L	06/18/12	KCA	SW 8081	
Endrin	ND	0.1	ug/L	06/18/12	KCA	SW 8081	

Parameter	Result	RL	Units	Date/Time	By	Reference
Endrin Aldehyde	ND	0.1	ug/L	06/18/12	KCA	SW 8081
g-BHC (Lindane)	ND	0.05	ug/L	06/18/12	KCA	SW 8081
Heptachlor	ND	0.05	ug/L	06/18/12	KCA	SW 8081
Heptachlor epoxide	ND	0.05	ug/L	06/18/12	KCA	SW 8081
Methoxychlor	ND	0.2	ug/L	06/18/12	KCA	SW 8081
Toxaphene	ND	1.0	ug/L	06/18/12	KCA	SW 8081
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	95		%	06/18/12	KCA	30 - 150 %
%TCMX (Surrogate Rec)	72		%	06/18/12	KCA	30 - 150 %
Volatile Library Search Top 10	Completed			06/13/12	R/J	

Volatiles

1,1,1-Trichloroethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,1,2-Trichloroethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,1-Dichloroethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,1-Dichloroethene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,2,3-Trichlorobenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	1
1,2,4-Trichlorobenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,2-Dibromoethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	1P
1,2-Dichlorobenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,2-Dichloroethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,2-Dichloropropane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,3-Dichlorobenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
1,4-Dichlorobenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
2-Hexanone	ND	30	ug/kg	06/14/12	H/J	SW8260	
4-Methyl-2-pentanone	ND	30	ug/kg	06/14/12	H/J	SW8260	
Acetone	ND	61	ug/kg	06/14/12	H/J	SW8260	
Benzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Bromochloromethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Bromodichloromethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Bromoform	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Bromomethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Carbon Disulfide	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Carbon tetrachloride	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Chlorobenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	B
Chloroethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Chloroform	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Chloromethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
cis-1,2-Dichloroethene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
cis-1,3-Dichloropropene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	1
Cyclohexane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	1P
Dibromochloromethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Dichlorodifluoromethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Ethylbenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Isopropylbenzene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
m&p-Xylene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Methyl ethyl ketone	ND	37	ug/kg	06/14/12	H/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	06/14/12	H/J	SW8260	

Parameter	Result	RL	Units	Date/Time	By	Reference	
Methylacetate	ND	6.1	ug/kg	06/14/12	H/J	SW8260	1P
Methylcyclohexane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	1P
Methylene chloride	69	6.1	ug/kg	06/14/12	H/J	SW8260	
o-Xylene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Styrene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Tetrachloroethene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Toluene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Total Xylenes	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
trans-1,2-Dichloroethene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
trans-1,3-Dichloropropene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Trichloroethene	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Trichlorofluoromethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Trichlorotrifluoroethane	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
Vinyl chloride	ND	6.1	ug/kg	06/14/12	H/J	SW8260	
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	109		%	06/14/12	H/J	70 - 130 %	
% Bromofluorobenzene	84		%	06/14/12	H/J	70 - 130 %	
% Dibromofluoromethane	101		%	06/14/12	H/J	70 - 130 %	
% Toluene-d8	94		%	06/14/12	H/J	70 - 130 %	
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	06/14/12	H/J	SW8260	
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	111		%	06/14/12	H/J	70 - 130 %	
% Bromofluorobenzene	90		%	06/14/12	H/J	70 - 130 %	
% Toluene-d8	97		%	06/14/12	H/J	70 - 130 %	
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	50	ug/L	06/15/12	H/J	SW8260	
1,2-Dichloroethane	ND	50	ug/L	06/15/12	H/J	SW8260	
Benzene	ND	50	ug/L	06/15/12	H/J	SW8260	
Carbon tetrachloride	ND	50	ug/L	06/15/12	H/J	SW8260	
Chlorobenzene	ND	50	ug/L	06/15/12	H/J	SW8260	B
Chloroform	ND	50	ug/L	06/15/12	H/J	SW8260	
Methyl ethyl ketone	ND	50	ug/L	06/15/12	H/J	SW8260	
Tetrachloroethene	ND	50	ug/L	06/15/12	H/J	SW8260	
Trichloroethene	ND	50	ug/L	06/15/12	H/J	SW8260	
Vinyl chloride	ND	50	ug/L	06/15/12	H/J	SW8260	
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	06/15/12	H/J	70 - 130 %	
% Bromofluorobenzene	93		%	06/15/12	H/J	70 - 130 %	
% Dibromofluoromethane	104		%	06/15/12	H/J	70 - 130 %	
% Toluene-d8	100		%	06/15/12	H/J	70 - 130 %	
SVOA Library Search Top 15	Completed			06/12/12	DD		
<u>Semivolatiles</u>							
1,1-Biphenyl	ND	280	ug/Kg	06/12/12	DD	SW 8270	
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2,3,4,6-tetrachlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2,4,5-Trichlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2,4,6-Trichlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2,4-Dimethylphenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2,4-Dinitrophenol	ND	650	ug/Kg	06/12/12	DD	SW 8270	
2,4-Dinitrotoluene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2,6-Dinitrotoluene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2-Chloronaphthalene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2-Chlorophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2-Methylnaphthalene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	280	ug/Kg	06/12/12	DD	SW 8270	
2-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270	
2-Nitrophenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	06/12/12	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	490	ug/Kg	06/12/12	DD	SW 8270	
3-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	410	ug/Kg	06/12/12	DD	SW 8270	
4-Chloro-3-methylphenol	ND	280	ug/Kg	06/12/12	DD	SW 8270	
4-Chloroaniline	ND	280	ug/Kg	06/12/12	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	06/12/12	DD	SW 8270	
4-Nitroaniline	ND	650	ug/Kg	06/12/12	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270	
Acenaphthene	420	280	ug/Kg	06/12/12	DD	SW 8270	
Acenaphthylene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Acetophenone	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Anthracene	390	280	ug/Kg	06/12/12	DD	SW 8270	
Atrazine	ND	280	ug/Kg	06/12/12	DD	SW 8270	1P
Benz(a)anthracene	900	280	ug/Kg	06/12/12	DD	SW 8270	
Benzaldehyde	ND	280	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	710	280	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	870	280	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	440	280	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	410	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	770	280	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	2200	280	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	340	280	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	06/12/12	DD	SW 8270	

Parameter	Result	RL	Units	Date/Time	By	Reference
Hexachlorocyclopentadiene	ND	280	ug/Kg	06/12/12	DD	SW 8270
Hexachloroethane	ND	280	ug/Kg	06/12/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	370	280	ug/Kg	06/12/12	DD	SW 8270
Isophorone	ND	280	ug/Kg	06/12/12	DD	SW 8270
Naphthalene	ND	280	ug/Kg	06/12/12	DD	SW 8270
Nitrobenzene	ND	280	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodimethylamine	ND	410	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	06/12/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	410	ug/Kg	06/12/12	DD	SW 8270
Pentachlorophenol	ND	410	ug/Kg	06/12/12	DD	SW 8270
Phenanthrene	2200	280	ug/Kg	06/12/12	DD	SW 8270
Phenol	ND	280	ug/Kg	06/12/12	DD	SW 8270
Pyrene	1900	280	ug/Kg	06/12/12	DD	SW 8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	103		%	06/12/12	DD	15 - 130 %
% 2-Fluorobiphenyl	70		%	06/12/12	DD	30 - 130 %
% 2-Fluorophenol	78		%	06/12/12	DD	15 - 130 %
% Nitrobenzene-d5	73		%	06/12/12	DD	30 - 130 %
% Phenol-d5	79		%	06/12/12	DD	15 - 130 %
% Terphenyl-d14	89		%	06/12/12	DD	30 - 130 %

TCLP Acid/Base-Neutral

1,4-Dichlorobenzene	ND	83	ug/L	06/16/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	83	ug/L	06/16/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	83	ug/L	06/16/12	DD	SW 8270
2,4-Dinitrotoluene	ND	83	ug/L	06/16/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	83	ug/L	06/16/12	DD	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	06/16/12	DD	SW 8270
Hexachlorobenzene	ND	83	ug/L	06/16/12	DD	SW 8270
Hexachlorobutadiene	ND	83	ug/L	06/16/12	DD	SW 8270
Hexachloroethane	ND	83	ug/L	06/16/12	DD	SW 8270
Nitrobenzene	ND	83	ug/L	06/16/12	DD	SW 8270
Pentachlorophenol	ND	83	ug/L	06/16/12	DD	SW 8270
Pyridine	ND	83	ug/L	06/16/12	DD	SW 8270

QA/QC Surrogates

% 2,4,6-Tribromophenol	84		%	06/16/12	DD	15 - 130 %
% 2-Fluorobiphenyl	66		%	06/16/12	DD	30 - 130 %
% 2-Fluorophenol	58		%	06/16/12	DD	15 - 130 %
% Nitrobenzene-d5	73		%	06/16/12	DD	30 - 130 %
% Phenol-d5	44		%	06/16/12	DD	15 - 130 %
% Terphenyl-d14	81		%	06/16/12	DD	30 - 130 %

Parameter	Result	RL	Units	Date/Time	By	Reference

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

1P = This parameter is pending certification by NY NELAC for this matrix.

3 = This parameter exceeds laboratory specified limits.

B = Present in blank, no bias suspected.

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

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.

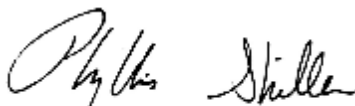
Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96199

Project ID: 145 WEST STREET
Client ID: WS-D3

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	06/12/12	EK	SW6010
Aluminum	8850	65	mg/Kg	06/13/12	LK	SW6010
Arsenic	5.98	0.87	mg/Kg	06/12/12	EK	SW6010
Barium	86.6	0.43	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.42	0.35	mg/Kg	06/12/12	EK	SW6010
Calcium	14800	65	mg/Kg	06/13/12	LK	SW6010
Cadmium	< 0.43	0.43	mg/Kg	06/12/12	EK	SW6010
Cobalt	402	4.3	mg/Kg	06/13/12	LK	SW6010
Chromium	30.4	0.43	mg/Kg	06/12/12	EK	SW6010
Copper	199	4.3	mg/kg	06/13/12	LK	SW6010
Iron	25400	65	mg/Kg	06/13/12	LK	SW6010
Mercury	0.15	0.08	mg/Kg	06/12/12	RS	SW-7471
Potassium	3320	65	mg/Kg	06/13/12	LK	SW6010
Magnesium	6780	65	mg/Kg	06/13/12	LK	SW6010
Manganese	416	4.3	mg/Kg	06/13/12	LK	SW6010
Sodium	808	6.5	mg/Kg	06/12/12	EK	SW6010
Nickel	68.1	0.43	mg/Kg	06/12/12	EK	SW6010
Lead	60.7	0.43	mg/Kg	06/12/12	EK	SW6010
QC for AA	Completed			06/12/12		
QC for Mercury	Completed			06/12/12		
QC for ICP	Completed			06/12/12		SW6010
Antimony	< 4.3	4.3	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.9	3.9	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest MS/MSD	Completed			06/12/12		
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	36.8	0.43	mg/Kg	06/12/12	EK	SW6010
Zinc	81.3	0.43	mg/Kg	06/12/12	EK	SW6010

Parameter	Result	RL	Units	Date/Time	By	Reference
Percent Solid	73		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion MS/MSD	Completed			06/12/12		SW7471
Mercury Digestion	Completed			06/12/12	X/X	SW7471
MS/MSD Ext. for Semi-Vol.	Completed			06/11/12		
QC for Volatile	Completed			06/12/12	H/J	
MS/MSD Volatiles	Completed			06/12/12	H/J	
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Volatiles

1,1,1-Trichloroethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,1,2-Trichloroethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,1-Dichloroethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,1-Dichloroethene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,2,3-Trichlorobenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	1
1,2,4-Trichlorobenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,2-Dibromoethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	1P
1,2-Dichlorobenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,2-Dichloroethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,2-Dichloropropane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,3-Dichlorobenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
1,4-Dichlorobenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
2-Hexanone	ND	34	ug/kg	06/12/12	H/J	SW8260	
4-Methyl-2-pentanone	ND	34	ug/kg	06/12/12	H/J	SW8260	
Acetone	ND	68	ug/kg	06/12/12	H/J	SW8260	
Benzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Bromochloromethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Bromodichloromethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Bromoform	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Bromomethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Carbon Disulfide	7.6	6.8	ug/kg	06/12/12	H/J	SW8260	
Carbon tetrachloride	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Chlorobenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Chloroethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Chloroform	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Chloromethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
cis-1,2-Dichloroethene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
cis-1,3-Dichloropropene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	1
Cyclohexane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	1P
Dibromochloromethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Dichlorodifluoromethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Ethylbenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Isopropylbenzene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
m&p-Xylene	ND	6.8	ug/kg	06/12/12	H/J	SW8260	
Methyl ethyl ketone	ND	41	ug/kg	06/12/12	H/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	14	ug/kg	06/12/12	H/J	SW8260	
Methylacetate	ND	6.8	ug/kg	06/12/12	H/J	SW8260	1P
Methylcyclohexane	ND	6.8	ug/kg	06/12/12	H/J	SW8260	1P

Parameter	Result	RL	Units	Date/Time	By	Reference
Methylene chloride	ND	6.8	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Toluene	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	6.8	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.8	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Trichloroethene	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	6.8	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	6.8	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	98		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	87		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	109		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	95		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	93		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	98		%	06/12/12	H/J	70 - 130 %
QC for Semi-Volatile	Completed			06/12/12		
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	310	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	710	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	310	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	310	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	310	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	310	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	310	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	710	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	450	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	540	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	710	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1300	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	450	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	310	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	310	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	06/12/12	DD	SW 8270	
4-Nitroaniline	ND	710	ug/Kg	06/12/12	DD	SW 8270	
4-Nitrophenol	ND	1300	ug/Kg	06/12/12	DD	SW 8270	
Acenaphthene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Acenaphthylene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Acetophenone	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Anthracene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Atrazine	ND	310	ug/Kg	06/12/12	DD	SW 8270	1P
Benz(a)anthracene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Benzaldehyde	ND	310	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	450	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1300	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	500	310	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	450	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	310	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	450	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	450	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	310	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	ND	310	ug/Kg	06/12/12	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	63		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	77		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	71		%	06/12/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference
% Phenol-d5	76		%	06/12/12	DD	15 - 130 %
% Terphenyl-d14	75		%	06/12/12	DD	30 - 130 %

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

1P = This parameter is pending certification by NY NELAC for this matrix.

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

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

06/07/12
06/11/12

Time

0:00
15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96200

Project ID: 145 WEST STREET
Client ID: WS-D3 DUP

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	06/12/12	EK	SW6010
Aluminum	10100	59	mg/Kg	06/13/12	LK	SW6010
Arsenic	7.56	0.79	mg/Kg	06/12/12	EK	SW6010
Barium	111	0.40	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.47	0.32	mg/Kg	06/12/12	EK	SW6010
Calcium	15100	59	mg/Kg	06/13/12	LK	SW6010
Cadmium	< 0.40	0.40	mg/Kg	06/12/12	EK	SW6010
Cobalt	419	4.0	mg/Kg	06/13/12	LK	SW6010
Chromium	30.9	0.40	mg/Kg	06/12/12	EK	SW6010
Copper	174	4.0	mg/kg	06/13/12	LK	SW6010
Iron	27300	59	mg/Kg	06/13/12	LK	SW6010
Mercury	0.18	0.10	mg/Kg	06/12/12	RS	SW-7471
Potassium	3810	59	mg/Kg	06/13/12	LK	SW6010
Magnesium	7710	59	mg/Kg	06/13/12	LK	SW6010
Manganese	392	4.0	mg/Kg	06/13/12	LK	SW6010
Sodium	901	5.9	mg/Kg	06/12/12	EK	SW6010
Nickel	66.9	0.40	mg/Kg	06/12/12	EK	SW6010
Lead	65.7	0.40	mg/Kg	06/12/12	EK	SW6010
Antimony	< 4.0	4.0	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.6	3.6	mg/Kg	06/14/12	LK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	36.4	0.40	mg/Kg	06/12/12	EK	SW6010
Zinc	101	0.40	mg/Kg	06/12/12	EK	SW6010
Percent Solid	77		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/12/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,1,2-Trichloroethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,1-Dichloroethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,1-Dichloroethene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,2-Dibromoethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,2-Dichloroethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,2-Dichloropropane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,3-Dichlorobenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
1,4-Dichlorobenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
2-Hexanone	ND	32	ug/kg	06/13/12	R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/kg	06/13/12	R/J	SW8260
Acetone	ND	65	ug/kg	06/13/12	R/J	SW8260
Benzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Bromochloromethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Bromodichloromethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Bromoform	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Bromomethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Carbon Disulfide	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Carbon tetrachloride	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Chlorobenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Chloroethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Chloroform	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Chloromethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.5	ug/kg	06/13/12	R/J	SW8260 1
Cyclohexane	ND	6.5	ug/kg	06/13/12	R/J	SW8260 1P
Dibromochloromethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Dichlorodifluoromethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Ethylbenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Isopropylbenzene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
m&p-Xylene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Methyl ethyl ketone	ND	39	ug/kg	06/13/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	06/13/12	R/J	SW8260
Methylacetate	ND	6.5	ug/kg	06/13/12	R/J	SW8260 1P
Methylcyclohexane	ND	6.5	ug/kg	06/13/12	R/J	SW8260 1P
Methylene chloride	7.5	6.5	ug/kg	06/13/12	R/J	SW8260
o-Xylene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Styrene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Tetrachloroethene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Toluene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Total Xylenes	ND	6.5	ug/kg	06/13/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.5	ug/kg	06/13/12	R/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Trichlorofluoromethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Trichlorotrifluoroethane	ND	6.5	ug/kg	06/13/12	R/J	SW8260
Vinyl chloride	ND	6.5	ug/kg	06/13/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	103		%	06/13/12	R/J	70 - 130 %
% Bromofluorobenzene	91		%	06/13/12	R/J	70 - 130 %
% Dibromofluoromethane	104		%	06/13/12	R/J	70 - 130 %
% Toluene-d8	101		%	06/13/12	R/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	106		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	98		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	105		%	06/13/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	300	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	680	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	680	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	510	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	680	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	430	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	300	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	680	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	300	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	300	ug/Kg	06/12/12	DD	SW 8270
Acetophenone	ND	300	ug/Kg	06/12/12	DD	SW 8270
Anthracene	ND	300	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	300	ug/Kg	06/12/12	DD	SW 8270
Benz(a)anthracene	ND	300	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	300	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	430	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	710	300	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	430	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	430	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	430	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	91		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	54		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	71		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	61		%	06/12/12	DD	30 - 130 %	
% Phenol-d5	71		%	06/12/12	DD	15 - 130 %	
% Terphenyl-d14	74		%	06/12/12	DD	30 - 130 %	

Parameter	Result	RL	Units	Date/Time	By	Reference

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

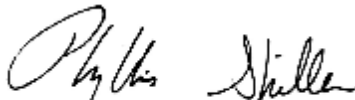
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/07/12 0:00
06/11/12 15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96203

Project ID: 145 WEST STREET
Client ID: WS-C3A

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	06/12/12	EK	SW6010
Aluminum	10200	59	mg/Kg	06/13/12	LK	SW6010
Arsenic	2.96	0.78	mg/Kg	06/12/12	EK	SW6010
Barium	70.4	0.39	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.58	0.31	mg/Kg	06/12/12	EK	SW6010
Calcium	7670	5.9	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	06/12/12	EK	SW6010
Cobalt	129	0.39	mg/Kg	06/12/12	EK	SW6010
Chromium	29.1	0.39	mg/Kg	06/12/12	EK	SW6010
Copper	107	0.39	mg/kg	06/12/12	EK	SW6010
Iron	32500	59	mg/Kg	06/13/12	LK	SW6010
Mercury	0.14	0.09	mg/Kg	06/12/12	RS	SW-7471
Potassium	1920	59	mg/Kg	06/13/12	LK	SW6010
Magnesium	3770	5.9	mg/Kg	06/12/12	EK	SW6010
Manganese	309	3.9	mg/Kg	06/13/12	LK	SW6010
Sodium	564	5.9	mg/Kg	06/12/12	EK	SW6010
Nickel	39.7	0.39	mg/Kg	06/12/12	EK	SW6010
Lead	46.2	0.39	mg/Kg	06/12/12	EK	SW6010
Antimony	< 3.9	3.9	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.5	3.5	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	39.7	0.39	mg/Kg	06/12/12	EK	SW6010
Zinc	68.0	0.39	mg/Kg	06/12/12	EK	SW6010
Percent Solid	78		%	06/11/12	JL	E160.3
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Volatile Library Search Top 10	Completed			06/14/12	H/J	

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1,2-Trichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromoethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloropropane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,3-Dichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
1,4-Dichlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
2-Hexanone	ND	32	ug/kg	06/13/12	H/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/kg	06/13/12	H/J	SW8260
Acetone	ND	64	ug/kg	06/13/12	H/J	SW8260
Benzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromochloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromodichloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromoform	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Bromomethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Carbon Disulfide	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Carbon tetrachloride	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chlorobenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chloroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chloroform	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Chloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1
Cyclohexane	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
Dibromochloromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Dichlorodifluoromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Ethylbenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Isopropylbenzene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
m&p-Xylene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Methyl ethyl ketone	ND	38	ug/kg	06/13/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/kg	06/13/12	H/J	SW8260
Methylacetate	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
Methylcyclohexane	ND	6.4	ug/kg	06/13/12	H/J	SW8260 1P
Methylene chloride	ND	6.4	ug/kg	06/13/12	H/J	SW8260
o-Xylene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Styrene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Tetrachloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Toluene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Total Xylenes	ND	6.4	ug/kg	06/13/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.4	ug/kg	06/13/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Trichloroethene	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Trichlorofluoromethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Trichlorotrifluoroethane	ND	6.4	ug/kg	06/13/12	H/J	SW8260
Vinyl chloride	ND	6.4	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	107		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	87		%	06/13/12	H/J	70 - 130 %
% Dibromofluoromethane	96		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	96		%	06/13/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	109		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	93		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	99		%	06/13/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/12/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	300	ug/Kg	06/12/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4-Dichlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4-Dimethylphenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrophenol	ND	680	ug/Kg	06/12/12	DD	SW 8270
2,4-Dinitrotoluene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2,6-Dinitrotoluene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Chloronaphthalene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Chlorophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Methylnaphthalene	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	300	ug/Kg	06/12/12	DD	SW 8270
2-Nitroaniline	ND	680	ug/Kg	06/12/12	DD	SW 8270
2-Nitrophenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	06/12/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	510	ug/Kg	06/12/12	DD	SW 8270
3-Nitroaniline	ND	680	ug/Kg	06/12/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	420	ug/Kg	06/12/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	300	ug/Kg	06/12/12	DD	SW 8270
4-Chloroaniline	ND	300	ug/Kg	06/12/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	06/12/12	DD	SW 8270
4-Nitroaniline	ND	680	ug/Kg	06/12/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	06/12/12	DD	SW 8270
Acenaphthene	ND	300	ug/Kg	06/12/12	DD	SW 8270
Acenaphthylene	ND	300	ug/Kg	06/12/12	DD	SW 8270
Acetophenone	ND	300	ug/Kg	06/12/12	DD	SW 8270
Anthracene	ND	300	ug/Kg	06/12/12	DD	SW 8270
Atrazine	ND	300	ug/Kg	06/12/12	DD	SW 8270
Benz(a)anthracene	710	300	ug/Kg	06/12/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference	
Benzaldehyde	ND	300	ug/Kg	06/12/12	DD	SW 8270	1P
Benzo(a)pyrene	510	300	ug/Kg	06/12/12	DD	SW 8270	
Benzo(b)fluoranthene	700	300	ug/Kg	06/12/12	DD	SW 8270	
Benzo(ghi)perylene	370	300	ug/Kg	06/12/12	DD	SW 8270	
Benzo(k)fluoranthene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Benzyl butyl phthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	420	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Caprolactam	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	06/12/12	DD	SW 8270	
Chrysene	600	300	ug/Kg	06/12/12	DD	SW 8270	
Dibenz(a,h)anthracene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Dibenzofuran	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Diethyl phthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Dimethylphthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Di-n-butylphthalate	890	300	ug/Kg	06/12/12	DD	SW 8270	
Di-n-octylphthalate	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Fluoranthene	1600	300	ug/Kg	06/12/12	DD	SW 8270	
Fluorene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobenzene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorobutadiene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachlorocyclopentadiene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Hexachloroethane	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	300	300	ug/Kg	06/12/12	DD	SW 8270	
Isophorone	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Naphthalene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Nitrobenzene	ND	300	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodimethylamine	ND	420	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	06/12/12	DD	SW 8270	
N-Nitrosodiphenylamine	ND	420	ug/Kg	06/12/12	DD	SW 8270	
Pentachlorophenol	ND	420	ug/Kg	06/12/12	DD	SW 8270	
Phenanthrene	1300	300	ug/Kg	06/12/12	DD	SW 8270	
Phenol	ND	300	ug/Kg	06/12/12	DD	SW 8270	
Pyrene	1300	300	ug/Kg	06/12/12	DD	SW 8270	
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	49		%	06/12/12	DD	15 - 130 %	
% 2-Fluorobiphenyl	55		%	06/12/12	DD	30 - 130 %	
% 2-Fluorophenol	69		%	06/12/12	DD	15 - 130 %	
% Nitrobenzene-d5	55		%	06/12/12	DD	30 - 130 %	
% Phenol-d5	66		%	06/12/12	DD	15 - 130 %	
% Terphenyl-d14	98		%	06/12/12	DD	30 - 130 %	

Project ID: 145 WEST STREET
Client ID: WS-C3A

Phoenix I.D.: BB96203

Parameter	Result	RL	Units	Date/Time	By	Reference

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

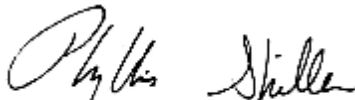
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOLID
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/07/12 0:00
06/11/12 15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96204

Project ID: 145 WEST STREET
Client ID: WS-C3A 30 FT

Parameter	Result	RL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	06/12/12	EK	SW6010
Aluminum	7680	57	mg/Kg	06/13/12	LK	SW6010
Arsenic	1.95	0.75	mg/Kg	06/12/12	EK	SW6010
Barium	63.2	0.38	mg/Kg	06/12/12	EK	SW6010
Beryllium	0.55	0.30	mg/Kg	06/12/12	EK	SW6010
Calcium	304	5.7	mg/Kg	06/12/12	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	06/12/12	EK	SW6010
Cobalt	9.98	0.38	mg/Kg	06/12/12	EK	SW6010
Chromium	19.8	0.38	mg/Kg	06/12/12	EK	SW6010
Copper	22.5	0.38	mg/kg	06/12/12	EK	SW6010
Iron	44200	57	mg/Kg	06/13/12	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	06/12/12	RS	SW-7471
Potassium	1520	57	mg/Kg	06/13/12	LK	SW6010
Magnesium	1710	5.7	mg/Kg	06/12/12	EK	SW6010
Manganese	308	3.8	mg/Kg	06/13/12	LK	SW6010
Sodium	681	5.7	mg/Kg	06/12/12	EK	SW6010
Nickel	21.7	0.38	mg/Kg	06/12/12	EK	SW6010
Lead	6.05	0.38	mg/Kg	06/12/12	EK	SW6010
Antimony	< 3.8	3.8	mg/Kg	06/12/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	06/12/12	EK	SW6010
Thallium	< 3.4	3.4	mg/Kg	06/12/12	EK	SW6010
Total Metals Digest	Completed			06/11/12	N/AG	SW846 - 3050
Vanadium	32.6	0.38	mg/Kg	06/12/12	EK	SW6010
Zinc	46.8	0.38	mg/Kg	06/12/12	EK	SW6010
Percent Solid	85		%	06/11/12	JL	E160.3
Soil Extraction for PCB	Completed			06/11/12	JB/F	SW3545
Soil Extraction for Pesticide	Completed			06/11/12	JB	SW3545
Soil Extraction for SVOA	Completed			06/11/12	JB/F	SW3545

Parameter	Result	RL	Units	Date/Time	By	Reference
Mercury Digestion	Completed			06/12/12	X/X	SW7471
Soil Extraction for Herbicide	Completed			06/11/12	M/D	SW8151
<u>Chlorinated Herbicides</u>						
2,4,5-T	ND	49	ug/Kg	06/12/12	JRB	SW8151
2,4,5-TP (Silvex)	ND	49	ug/Kg	06/12/12	JRB	SW8151
2,4-D	ND	49	ug/Kg	06/12/12	JRB	SW8151
2,4-DB	ND	490	ug/Kg	06/12/12	JRB	SW8151
Dalapon	ND	49	ug/Kg	06/12/12	JRB	SW8151
Dicamba	ND	97	ug/Kg	06/12/12	JRB	SW8151
Dichloroprop	ND	49	ug/Kg	06/12/12	JRB	SW8151
Dinoseb	ND	97	ug/Kg	06/12/12	JRB	SW8151
<u>QA/QC Surrogates</u>						
% DCAA	65		%	06/12/12	JRB	30 - 150 %
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1221	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1232	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1242	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1248	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1254	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1260	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1262	ND	390	ug/Kg	06/12/12	MH	SW 8082
PCB-1268	ND	390	ug/Kg	06/12/12	MH	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	66		%	06/12/12	MH	30 - 150 %
% TCMX	72		%	06/12/12	MH	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	38	ug/Kg	06/12/12	KCA	SW8081
4,4' -DDE	ND	38	ug/Kg	06/12/12	KCA	SW8081
4,4' -DDT	ND	38	ug/Kg	06/12/12	KCA	SW8081
a-BHC	ND	19	ug/Kg	06/12/12	KCA	SW8081
Alachlor	ND	19	ug/Kg	06/12/12	KCA	SW8081
Aldrin	ND	5.9	ug/Kg	06/12/12	KCA	SW8081
b-BHC	ND	19	ug/Kg	06/12/12	KCA	SW8081
Chlordane	ND	59	ug/Kg	06/12/12	KCA	SW8081
d-BHC	ND	19	ug/Kg	06/12/12	KCA	SW8081
Dieldrin	ND	5.9	ug/Kg	06/12/12	KCA	SW8081
Endosulfan I	ND	19	ug/Kg	06/12/12	KCA	SW8081
Endosulfan II	ND	38	ug/Kg	06/12/12	KCA	SW8081
Endosulfan sulfate	ND	38	ug/Kg	06/12/12	KCA	SW8081
Endrin	ND	38	ug/Kg	06/12/12	KCA	SW8081
Endrin aldehyde	ND	38	ug/Kg	06/12/12	KCA	SW8081
Endrin ketone	ND	38	ug/Kg	06/12/12	KCA	SW8081
g-BHC	ND	5.9	ug/Kg	06/12/12	KCA	SW8081
Heptachlor	ND	12	ug/Kg	06/12/12	KCA	SW8081
Heptachlor epoxide	ND	19	ug/Kg	06/12/12	KCA	SW8081
Methoxychlor	ND	190	ug/Kg	06/12/12	KCA	SW8081
Toxaphene	ND	190	ug/Kg	06/12/12	KCA	SW8081

Parameter	Result	RL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	66		%	06/12/12	KCA	30 - 150 %
% TCMX	74		%	06/12/12	KCA	30 - 150 %
Volatile Library Search Top 10	Completed			06/12/12	H/J	
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
2-Hexanone	ND	29	ug/kg	06/13/12	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/kg	06/13/12	H/J	SW8260
Acetone	ND	59	ug/kg	06/13/12	H/J	SW8260
Benzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Bromochloromethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Bromodichloromethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Bromoform	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Bromomethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Carbon Disulfide	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Carbon tetrachloride	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Chlorobenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Chloroethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Chloroform	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Chloromethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Cyclohexane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Dibromochloromethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Ethylbenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Isopropylbenzene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
m&p-Xylene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Methyl ethyl ketone	ND	35	ug/kg	06/13/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/kg	06/13/12	H/J	SW8260
Methylacetate	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Methylcyclohexane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Methylene chloride	ND	5.9	ug/kg	06/13/12	H/J	SW8260
o-Xylene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Styrene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Tetrachloroethene	ND	5.9	ug/kg	06/13/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Total Xylenes	ND	5.9	ug/kg	06/13/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Trichloroethene	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/kg	06/13/12	H/J	SW8260
Vinyl chloride	ND	5.9	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	91		%	06/13/12	H/J	70 - 130 %
% Dibromofluoromethane	108		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	95		%	06/13/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/13/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	06/13/12	H/J	70 - 130 %
% Bromofluorobenzene	97		%	06/13/12	H/J	70 - 130 %
% Toluene-d8	99		%	06/13/12	H/J	70 - 130 %
SVOA Library Search Top 15	Completed			06/13/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	270	ug/Kg	06/13/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/13/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
2,4-Dinitrophenol	ND	620	ug/Kg	06/13/12	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/13/12	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/13/12	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/13/12	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/13/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/13/12	DD	SW 8270
2-Nitroaniline	ND	620	ug/Kg	06/13/12	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	06/13/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	470	ug/Kg	06/13/12	DD	SW 8270
3-Nitroaniline	ND	620	ug/Kg	06/13/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/13/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	06/13/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	06/13/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/13/12	DD	SW 8270
4-Nitroaniline	ND	620	ug/Kg	06/13/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	06/13/12	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/13/12	DD	SW 8270

Parameter	Result	RL	Units	Date/Time	By	Reference
Acetophenone	ND	270	ug/Kg	06/13/12	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Atrazine	ND	270	ug/Kg	06/13/12	DD	SW 8270 1P
Benz(a)anthracene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Benzaldehyde	ND	270	ug/Kg	06/13/12	DD	SW 8270 1P
Benzo(a)pyrene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	06/13/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/13/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	390	ug/Kg	06/13/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/13/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	06/13/12	DD	SW 8270
Caprolactam	ND	270	ug/Kg	06/13/12	DD	SW 8270
Carbazole	ND	1100	ug/Kg	06/13/12	DD	SW 8270
Chrysene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	06/13/12	DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	06/13/12	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/13/12	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/13/12	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/13/12	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	06/13/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Isophorone	ND	270	ug/Kg	06/13/12	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	06/13/12	DD	SW 8270
N-Nitrosodimethylamine	ND	390	ug/Kg	06/13/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/13/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	390	ug/Kg	06/13/12	DD	SW 8270
Pentachlorophenol	ND	390	ug/Kg	06/13/12	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	06/13/12	DD	SW 8270
Phenol	ND	270	ug/Kg	06/13/12	DD	SW 8270
Pyrene	ND	270	ug/Kg	06/13/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	84		%	06/13/12	DD	15 - 130 %
% 2-Fluorobiphenyl	78		%	06/13/12	DD	30 - 130 %
% 2-Fluorophenol	79		%	06/13/12	DD	15 - 130 %
% Nitrobenzene-d5	74		%	06/13/12	DD	30 - 130 %
% Phenol-d5	79		%	06/13/12	DD	15 - 130 %
% Terphenyl-d14	98		%	06/13/12	DD	30 - 130 %

Project ID: 145 WEST STREET
Client ID: WS-C3A 30 FT

Phoenix I.D.: BB96204

Parameter	Result	RL	Units	Date/Time	By	Reference

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

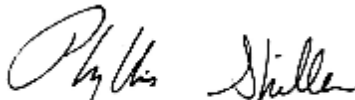
RL=Reporting Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

July 06, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: SOIL
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
06/08/12 0:00
06/11/12 15:59

Laboratory Data

SDG ID: GBB96188
Phoenix ID: BB96534

Project ID: 145 WEST STREET
Client ID: TRIP BLANK

Parameter	Result	RL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Volatile Library Search Top 10	Completed			06/12/12	H/J	
Volatiles						
1,1,1-Trichloroethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260 1
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
2-Hexanone	ND	25	ug/kg	06/12/12	H/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/kg	06/12/12	H/J	SW8260
Acetone	ND	50	ug/kg	06/12/12	H/J	SW8260
Benzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Bromochloromethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Bromodichloromethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Bromoform	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Bromomethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Carbon Disulfide	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Carbon tetrachloride	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Chlorobenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260

Parameter	Result	RL	Units	Date/Time	By	Reference
Chloroethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Chloroform	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Chloromethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Cyclohexane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Dibromochloromethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Ethylbenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Isopropylbenzene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
m&p-Xylene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Methyl ethyl ketone	ND	30	ug/kg	06/12/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	06/12/12	H/J	SW8260
Methylacetate	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Methylcyclohexane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Methylene chloride	ND	5.0	ug/kg	06/12/12	H/J	SW8260
o-Xylene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Styrene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Tetrachloroethene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Toluene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Total Xylenes	ND	5.0	ug/kg	06/12/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Trichloroethene	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/kg	06/12/12	H/J	SW8260
Vinyl chloride	ND	5.0	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	91		%	06/12/12	H/J	70 - 130 %
% Dibromofluoromethane	96		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	102		%	06/12/12	H/J	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/kg	06/12/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	06/12/12	H/J	70 - 130 %
% Bromofluorobenzene	97		%	06/12/12	H/J	70 - 130 %
% Toluene-d8	105		%	06/12/12	H/J	70 - 130 %

Project ID: 145 WEST STREET
Client ID: TRIP BLANK

Phoenix I.D.: BB96534

Parameter	Result	RL	Units	Date/Time	By	Reference

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

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

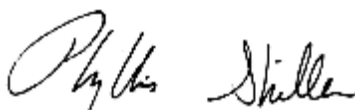
Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

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

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Phyllis Shiller, Laboratory Director

July 06, 2012

Reviewed and Released by: Sarah Bell, Project Manager

CLIENT ID

WS-S-1

Client: GALLI-ENG

SAS No.:

SDG No.: GBB96188

Lab Sample ID: BB96188

Lab File ID: 0612M36.D

Date Received: 06/11/12

Date Analyzed: 06/12/12

Dilution Factor: 100

Soil Aliquot Vol (uL): 50

CONCENTRATION UNITS:

[illegible]

WS-S-4

TRIP BLANK

WS-E2

WS-E2 30 FT

WS-F2

Client: GALLI-ENG

SDG No.: GBB96188

Lab Sample ID: BB96194

Lab File ID: 0612M30.D

Date Received: 06/11/12

Date Analyzed: 06/12/12

Dilution Factor: 1

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

FORM I VOA-TIC

WS-F2 30 FT

CLIENT ID

WS-F4

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96197

Sample wt/vol: 10 (g/mL) g

Lab File ID: 0613M22.D

Level: (low/med) PPH

Date Received: 06/11/12

% Moisture: not dec. 20

Date Analyzed: 06/13/12

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 50

Soil Extract Volume: 10000 (uL)

Soil Aliquot Vol (uL): 100

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/KG) ug/Kg

[illegible]

WS-C3A

WS-C3A 30 FT

TRIP BLANK

Client: GALLI-ENG

SDG No.: GBB96188

Lab Sample ID: BB96534

Lab File ID: 0612M23.D

Date Received: 06/11/12

Date Analyzed: 06/12/12

Dilution Factor: 1

Soil Aliquot Vol (uL): 5000

CONCENTRATION UNITS:

FORM I VOA-TIC

CLIENT ID

WS-S-1

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96188

Sample wt/vol: 15.1 (g/mL) g

Lab File ID: 0611_41.D

Level: (low/med) Low

Date Received: 06/11/12

% Moisture: not dec. 18 decanted:(Y/N) NA

Date Extracted: 06/11/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/12/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 15

[illegible]

CLIENT ID

WS-E2 30 FT

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96193

Sample wt/vol: 15.29 (g/mL) g

Lab File ID: 0611 44.D

Level: (low/med) Low

Date Received: 06/11/12

% Moisture: not dec. 14 decanted:(Y/N) NA

Date Extracted: 06/11/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/12/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 2

[illegible]

CLIENT ID

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GBB96188Matrix:(soil/water) SOILLab Sample ID: BB96194

Sample wt/vol: 15.28 (g/mL) g

Lab File ID: 0612_08.D

Level: (low/med) LowDate Received: 06/11/12

% Moisture: not dec. 20 decanted:(Y/N) NA

Date Extracted: 06/11/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/12/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 14 (ug/L or ug/KG) ug/Kg

[illegible]

CLIENT ID

WS-F2 30 FT

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96195

Sample wt/vol: 15.14 (g/mL) g

Lab File ID: 0612 06.D

Level: (low/med) Low

Date Received: 06/11/12

% Moisture: not dec. 12 decanted:(Y/N) NA

Date Extracted: 06/11/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/12/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/KG) ug/Kg

[illegible]

CLIENT ID

WS-F3

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96196

Sample wt/vol: 15.2 (g/mL) g

Lab File ID: 0612_07.D

Level: (low/med) Low

Date Received: 06/11/12

% Moisture: not dec. 15 decanted:(Y/N) NA

Date Extracted: 06/11/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/12/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/KG) ug/Kg

[illegible]

CLIENT ID

WS-F4

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96197

Sample wt/vol: 15.21 (g/mL) g

Lab File ID: 0612 24.D

Level: (low/med) Low

Date Received: 06/11/12

% Moisture: not dec. 20 decanted:(Y/N) NA

Date Extracted: 06/12/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/13/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found:	15	(ug/L or ug/KG)	ug/Kg

[illegible]

CLIENT ID

WS-D4

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96198

Sample wt/vol: 15.05 (g/mL) g

Lab File ID: 0612_09.D

Level: (low/med) Low

Date Received: 06/11/12

% Moisture: not dec. 18 decanted:(Y/N) NA

Date Extracted: 06/11/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/12/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 4

[illegible]

CLIENT ID

WS-D3

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBB96188

Matrix:(soil/water) SOIL

Lab Sample ID: BB96199

Sample wt/vol: 15.36 (g/mL) g

Lab File ID: 0612 10.D

Level: (low/med) Low

Date Received: 06/11/12

% Moisture: not dec. 27 decanted:(Y/N) NA

Date Extracted: 06/11/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 6/12/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/KG) ug/Kg

[illegible]

WS-C3A 30 FT



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QA/QC Report

July 06, 2012

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 202449, QC Sample No: BB96199 (BB96188, BB96189, BB96190, BB96193, BB96194, BB96195, BB96196, BB96198, BB96199, BB96200, BB96203, BB96204)

ICP Metals - Soil

Aluminum	BRL	8940	9090	1.70	115	120	4.3	NC	NC	NC	75 - 125	30
Antimony	BRL	<4.3	<4.4	NC	95.8	99.2	3.5	81.8	83.4	1.9	75 - 125	30
Arsenic	BRL	5.98	4.73	23.3	92.1	96.6	4.8	89.9	91.3	1.5	75 - 125	30
Barium	BRL	86.6	82.2	5.20	102	108	5.7	89.9	93.5	3.9	75 - 125	30
Beryllium	BRL	0.42	0.43	NC	99.3	103	3.7	91.1	92.8	1.8	75 - 125	30
Cadmium	BRL	<0.43	<0.44	NC	93.3	95.5	2.3	83.9	85.4	1.8	75 - 125	30
Calcium	BRL	11000	11800	7.00	80.2	80.1	0.1	NC	NC	NC	75 - 125	30
Chromium	BRL	30.4	28.5	6.50	103	104	1.0	96.7	94.4	2.4	75 - 125	30
Cobalt	BRL	365	400	9.20	95.5	97.2	1.8	119	70.9	50.7	75 - 125	30
Copper	BRL	202	195	3.50	102	106	3.8	114	93.2	20.1	75 - 125	30
Iron	BRL	18900	17600	7.10	95.3	94.6	0.7	NC	NC	NC	75 - 125	30
Lead	BRL	60.7	54.0	11.7	88.5	96.1	8.2	83.0	86.3	3.9	75 - 125	30
Magnesium	BRL	5220	5690	8.60	85.3	86.6	1.5	NC	NC	NC	75 - 125	30
Manganese	BRL	385	359	7.00	98.5	100	1.5	94.5	99.5	5.2	75 - 125	30
Nickel	BRL	68.1	66.0	3.10	95.3	98.6	3.4	90.6	84.6	6.8	75 - 125	30
Potassium	BRL	3010	2610	14.2	114	115	0.9	>130	>130	NC	75 - 125	30
Selenium	BRL	<1.7	<1.8	NC	77.1	82.4	6.6	77.3	79.0	2.2	75 - 125	30
Silver	BRL	<0.43	<0.44	NC	114	123	7.6	112	112	0.0	75 - 125	30
Sodium	BRL	808	893	10.0	105	108	2.8	>130	>130	NC	75 - 125	30
Thallium	BRL	<3.9	<4.0	NC	96.2	103	6.8	86.3	87.8	1.7	75 - 125	30
Vanadium	BRL	36.8	33.9	8.20	107	110	2.8	94.4	94.6	0.2	75 - 125	30
Zinc	BRL	81.3	85.7	5.30	92.9	95.2	2.4	97.0	96.3	0.7	75 - 125	30

QA/QC Batch 202477, QC Sample No: BB96199 (BB96188, BB96189, BB96190, BB96193, BB96194, BB96195, BB96196, BB96198, BB96199, BB96200, BB96203, BB96204)

Mercury - Soil	BRL	0.15	0.34	NC	106	105	0.9	121	>125	NC	70 - 130	30

QA/QC Batch 202521, QC Sample No: BB96668 (BB96192, BB96197)

ICP Metals - Soil

Aluminum	BRL	10400	13400	25.2	105	102	2.9	NC	NC	NC	75 - 125	30
Antimony	BRL	<1.8	<1.4	NC	73.7	75.3	2.1	72.6	70.5	2.9	75 - 125	30
Arsenic	BRL	2.88	2.70	NC	94.0	93.8	0.2	93.0	90.5	2.7	75 - 125	30
Barium	BRL	92.7	99.3	6.90	98.3	96.6	1.7	84.3	105	21.9	75 - 125	30
Beryllium	BRL	0.33	0.37	NC	89.7	89.8	0.1	85.4	91.8	7.2	75 - 125	30
Cadmium	BRL	0.233	0.287	NC	94.7	96.8	2.2	88.9	95.5	7.2	75 - 125	30
Calcium	BRL	1770	1930	8.60	95.2	93.9	1.4	NC	NC	NC	75 - 125	30
Chromium	BRL	21.0	22.6	7.30	97.4	96.9	0.5	94.4	96.2	1.9	75 - 125	30
Cobalt	BRL	5.86	6.36	8.20	94.2	96.4	2.3	91.5	95.1	3.9	75 - 125	30
Copper	BRL	25.3	32.7	25.5	97.3	100	2.7	94.7	107	12.2	75 - 125	30
Iron	BRL	12800	16200	23.4	114	112	1.8	NC	NC	NC	75 - 125	30
Lead	BRL	72.2	91.2	23.3	96.6	97.1	0.5	93.7	97.7	4.2	75 - 125	30
Magnesium	BRL	3260	3650	11.3	102	100	2.0	NC	NC	NC	75 - 125	30

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Manganese	BRL	183	217	17.0	97.7	95.6	2.2	105	121	14.2	75 - 125	30
Nickel	BRL	11.4	12.7	10.8	92.9	95.3	2.6	88.2	92.1	4.3	75 - 125	30
Potassium	BRL	1390	1580	12.8	102	98.7	3.3	107	>130	NC	75 - 125	30 m
Selenium	BRL	<1.5	<1.4	NC	86.7	89.0	2.6	82.1	88.3	7.3	75 - 125	30
Silver	BRL	<0.37	<0.35	NC	87.4	94.0	7.3	90.3	96.9	7.1	75 - 125	30
Sodium	BRL	100	116	14.8	93.4	95.0	1.7	119	>130	NC	75 - 125	30 m
Thallium	BRL	<1.5	<1.6	NC	95.1	95.2	0.1	93.0	92.7	0.3	75 - 125	30
Vanadium	BRL	23.8	27.2	13.3	98.9	98.9	0.0	95.5	97.9	2.5	75 - 125	30
Zinc	BRL	102	109	6.60	95.6	96.3	0.7	95.3	105	9.7	75 - 125	30
QA/QC Batch 202559, QC Sample No: BB96988 (BB96192, BB96197)												
Mercury - Soil	BRL	<0.06	<0.07	NC	97.8	100	2.2	99.0	101	2.0	70 - 130	30
QA/QC Batch 202678, QC Sample No: BB97887 (BB96198)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	98.6	92.8	6.1	98.0	94.9	3.2	70 - 130	20
QA/QC Batch 202680, QC Sample No: BB97989 (BB96198)												
<u>ICP Metals - TCLP Extraction</u>												
Arsenic	BRL	<0.10	<0.10	NC	109	108	0.9	104	102	1.9	75 - 125	20
Barium	BRL	0.52	0.60	14.3	95.2	94.8	0.4	100	96.4	3.7	75 - 125	20
Cadmium	BRL	<0.050	<0.050	NC	101	101	0.0	99.4	98.1	1.3	75 - 125	20
Chromium	BRL	<0.10	<0.10	NC	100	99.5	0.5	99.7	97.1	2.6	75 - 125	20
Lead	BRL	0.0335	<0.10	NC	102	100	2.0	101	99.1	1.9	75 - 125	20
Selenium	BRL	<0.10	<0.10	NC	113	112	0.9	106	104	1.9	75 - 125	20
Silver	BRL	<0.10	<0.10	NC	108	107	0.9	103	99.5	3.5	75 - 125	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.



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QA/QC Report

July 06, 2012

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 202565, QC Sample No: BB96811 (BB96198)												
Reactivity Cyanide	BRL	<5.1	<5.2	NC	104						85 - 115	30
QA/QC Batch 202785, QC Sample No: BB97610 (BB96198)												
Flash Point		>200	>200	NC	101						85 - 115	30
QA/QC Batch 202675, QC Sample No: BB97999 (BB96198)												
pH - Soil		7.66	7.64	0.30	97.4						85 - 115	20



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QA/QC Report

July 06, 2012

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 202795, QC Sample No: BB91706 (BB96198)									
<u>Chlorinated Herbicides</u>									
2,4,5-TP (Silvex)	ND	100	111	10.4				40 - 140	20
2,4-D	ND	123	127	3.2				40 - 140	20
% DCAA (Surrogate Rec)	91	87	96	9.8				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted.

QA/QC Batch 202753, QC Sample No: BB91706 (BB96198)

Pesticides

4,4' -DDD	ND	85	86	1.2				40 - 140	20
4,4' -DDE	ND	73	74	1.4				40 - 140	20
4,4' -DDT	ND	84	85	1.2				40 - 140	20
a-BHC	ND	74	73	1.4				40 - 140	20
a-Chlordane	ND	75	76	1.3				40 - 140	20
Alachlor	ND	N/A	N/A	NC				40 - 140	20
Aldrin	ND	70	70	0.0				40 - 140	20
b-BHC	ND	73	72	1.4				40 - 140	20
Chlordane	ND	N/A	N/A	NC				40 - 140	20
d-BHC	ND	77	77	0.0				40 - 140	20
Dieldrin	ND	79	79	0.0				40 - 140	20
Endosulfan I	ND	76	76	0.0				40 - 140	20
Endosulfan II	ND	89	91	2.2				40 - 140	20
Endosulfan sulfate	ND	83	83	0.0				40 - 140	20
Endrin	ND	105	103	1.9				40 - 140	20
Endrin aldehyde	ND	80	81	1.2				40 - 140	20
g-BHC	ND	74	73	1.4				40 - 140	20
g-Chlordane	ND	76	76	0.0				40 - 140	20
Heptachlor	ND	75	75	0.0				40 - 140	20
Heptachlor epoxide	ND	73	72	1.4				40 - 140	20
Methoxychlor	ND	93	96	3.2				40 - 140	20
Toxaphene	ND	N/A	N/A	NC				40 - 140	20
% DCBP	91	80	80	0.0				30 - 150	20
% TCMX	87	78	75	3.9				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

QA/QC Batch 202811, QC Sample No: BB91706 (BB96198)

Volatiles

1,1-Dichloroethene	ND	95	96	1.0	96	86	11.0	70 - 130	30
1,2-Dichloroethane	ND	95	96	1.0	99	101	2.0	70 - 130	30
Benzene	ND	100	99	1.0	100	101	1.0	70 - 130	30
Carbon tetrachloride	ND	95	95	0.0	94	100	6.2	70 - 130	30

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chlorobenzene	ND	93	93	0.0	95	96	1.0	70 - 130	30
Chloroform	ND	95	91	4.3	97	92	5.3	70 - 130	30
Methyl ethyl ketone	ND	96	86	11.0	89	82	8.2	70 - 130	30
Tetrachloroethene	ND	97	99	2.0	87	103	16.8	70 - 130	30
Trichloroethene	ND	99	100	1.0	97	100	3.0	70 - 130	30
Vinyl chloride	ND	97	95	2.1	93	82	12.6	70 - 130	30
% 1,2-dichlorobenzene-d4	103	104	99	4.9	100	101	1.0	70 - 130	30
% Bromofluorobenzene	95	101	100	1.0	98	100	2.0	70 - 130	30
% Dibromofluoromethane	99	99	92	7.3	102	91	11.4	70 - 130	30
% Toluene-d8	101	101	100	1.0	102	101	1.0	70 - 130	30

QA/QC Batch 202752, QC Sample No: BB91706 (BB96198)

Semivolatiles

1,4-Dichlorobenzene	ND	75	76	1.3				30 - 130	20	
2,4,5-Trichlorophenol	ND	84	85	1.2				30 - 130	20	
2,4,6-Trichlorophenol	ND	84	85	1.2				30 - 130	20	
2,4-Dinitrotoluene	ND	83	86	3.6				30 - 130	20	
2-Methylphenol (o-cresol)	ND	75	75	0.0				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	74	76	2.7				30 - 130	20	
Hexachlorobenzene	ND	87	90	3.4				30 - 130	20	
Hexachlorobutadiene	ND	80	83	3.7				30 - 130	20	
Hexachloroethane	ND	77	78	1.3				30 - 130	20	
Nitrobenzene	ND	82	83	1.2				30 - 130	20	
Pentachlorophenol	ND	86	92	6.7				30 - 130	20	
Pyridine	ND	26	26	0.0				30 - 130	20	I
% 2,4,6-Tribromophenol	92	97	99	2.0				15 - 130	20	
% 2-Fluorobiphenyl	68	78	80	2.5				30 - 130	20	
% 2-Fluorophenol	68	69	70	1.4				15 - 130	20	
% Nitrobenzene-d5	79	81	82	1.2				30 - 130	20	
% Phenol-d5	53	54	55	1.8				15 - 130	20	
% Terphenyl-d14	91	92	96	4.3				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 202637, QC Sample No: BB91708 (BB96198)

TPH by GC (QAM025) - Solid

Total Petroleum Hydrocarbon	ND	95	79	18.4
% Chlorobenzene (surrogate)	56	84	69	19.6
% Pentacosane (surrogate)	60	72	60	18.2

Comment:

The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.

QA/QC Batch 202253, QC Sample No: BB95049 (BB96193, BB96195, BB96204)

Chlorinated Herbicides - Solid

2,4,5-T	ND	34	47	32.1	33	36	8.7	40 - 140	30	I,r
2,4,5-TP (Silvex)	ND	49	51	4.0	46	53	14.1	40 - 140	30	
2,4-D	ND	38	45	16.9	35	32	9.0	40 - 140	30	I
2,4-DB	ND	81	69	16.0	61	64	4.8	40 - 140	30	
Dalapon	ND	60	56	6.9	24	61	87.1	40 - 140	30	m,r
Dicamba	ND	70	69	1.4	59	66	11.2	40 - 140	30	
Dichloroprop	ND	63	61	3.2	42	46	9.1	40 - 140	30	
Dinoseb	ND	69	69	0.0	74	80	7.8	40 - 140	30	
% DCAA (Surrogate Rec)	63	58	55	5.3	48	52	8.0	30 - 150	30	

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 202345, QC Sample No: BB95484 (BB96193, BB96195, BB96204)										
Pesticides - Solid										
4,4' -DDD	ND	76	79	3.9	127	>130	NC	40 - 140	30	m
4,4' -DDE	ND	74	76	2.7	79	101	24.4	40 - 140	30	
4,4' -DDT	ND	76	74	2.7	>130	127	NC	40 - 140	30	m
a-BHC	ND	80	80	0.0	77	83	7.5	40 - 140	30	
a-Chlordane	ND	79	78	1.3	89	96	7.6	40 - 140	30	
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
Aldrin	ND	80	79	1.3	77	80	3.8	40 - 140	30	
b-BHC	ND	75	76	1.3	77	87	12.2	40 - 140	30	
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
d-BHC	ND	77	76	1.3	82	92	11.5	40 - 140	30	
Dieldrin	ND	78	81	3.8	96	103	7.0	40 - 140	30	
Endosulfan I	ND	84	85	1.2	75	84	11.3	40 - 140	30	
Endosulfan II	ND	74	72	2.7	90	96	6.5	40 - 140	30	
Endosulfan sulfate	ND	76	72	5.4	93	96	3.2	40 - 140	30	
Endrin	ND	76	74	2.7	91	93	2.2	40 - 140	30	
Endrin aldehyde	ND	91	83	9.2	104	107	2.8	40 - 140	30	
Endrin ketone	ND	83	81	2.4	95	98	3.1	40 - 140	30	
g-BHC	ND	79	79	0.0	79	86	8.5	40 - 140	30	
g-Chlordane	ND	77	77	0.0	101	110	8.5	40 - 140	30	
Heptachlor	ND	80	79	1.3	76	81	6.4	40 - 140	30	
Heptachlor epoxide	ND	77	77	0.0	78	83	6.2	40 - 140	30	
Methoxychlor	ND	73	71	2.8	98	99	1.0	40 - 140	30	
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
% DCBP	85	80	80	0.0	82	84	2.4	30 - 150	30	
% TCMX	84	87	84	3.5	80	85	6.1	30 - 150	30	
QA/QC Batch 202363, QC Sample No: BB95901 (BB96193, BB96195, BB96204)										
Polychlorinated Biphenyls - Solid										
PCB-1016	ND	91	92	1.1	95	88	7.7	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	90	90	0.0	95	90	5.4	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	87	90	94	4.3	85	79	7.3	30 - 150	30	
% TCMX (Surrogate Rec)	85	84	83	1.2	83	77	7.5	30 - 150	30	
QA/QC Batch 202581, QC Sample No: BB96199 (BB96188, BB96189, BB96190, BB96191, BB96193, BB96194, BB96195, BB96196, BB96199, BB96200, BB96204, BB96534)										
Volatiles - Solid, Soil										
1,1,1-Trichloroethane	ND	98	99	1.0	95	88	7.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	101	100	1.0	<40	NC	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	103	103	0.0	55	52	5.6	70 - 130	30	m
1,1-Dichloroethane	ND	107	92	15.1	90	78	14.3	70 - 130	30	
1,1-Dichloroethene	ND	89	90	1.1	95	98	3.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	108	99	8.7	<40	<40	NC	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	104	99	4.9	<40	<40	NC	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	108	102	5.7	54	48	11.8	70 - 130	30	m

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromoethane	ND							70 - 130	30	
1,2-Dichlorobenzene	ND	99	103	4.0	48	49	2.1	70 - 130	30	m
1,2-Dichloroethane	ND	103	103	0.0	76	73	4.0	70 - 130	30	
1,2-Dichloropropane	ND	104	107	2.8	87	88	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	100	105	4.9	41	43	4.8	70 - 130	30	m
1,4-Dichlorobenzene	ND	98	104	5.9	<40	<40	NC	70 - 130	30	m
2-Hexanone	ND	99	100	1.0	93	83	11.4	70 - 130	30	
4-Methyl-2-pentanone	ND	109	108	0.9	99	92	7.3	70 - 130	30	
Acetone	ND	86	73	16.4	116	110	5.3	70 - 130	30	
Benzene	ND	99	100	1.0	84	87	3.5	70 - 130	30	
Bromochloromethane	ND	110	99	10.5	76	68	11.1	70 - 130	30	m
Bromodichloromethane	ND	103	105	1.9	66	67	1.5	70 - 130	30	m
Bromoform	ND	109	111	1.8	51	53	3.8	70 - 130	30	m
Bromomethane	ND	80	89	10.7	52	64	20.7	70 - 130	30	m
Carbon Disulfide	ND	96	97	1.0	53	58	9.0	70 - 130	30	m
Carbon tetrachloride	ND	101	104	2.9	90	84	6.9	70 - 130	30	
Chlorobenzene	ND	99	103	4.0	54	58	7.1	70 - 130	30	m
Chloroethane	ND	99	100	1.0	83	92	10.3	70 - 130	30	
Chloroform	ND	113	97	15.2	93	82	12.6	70 - 130	30	
Chloromethane	ND	96	90	6.5	98	88	10.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	108	98	9.7	68	65	4.5	70 - 130	30	m
cis-1,3-Dichloropropene	ND	106	107	0.9	<40	<40	NC	70 - 130	30	m
Dibromochloromethane	ND	110	110	0.0	58	60	3.4	70 - 130	30	m
Dichlorodifluoromethane	ND	79	86	8.5	93	105	12.1	70 - 130	30	
Ethylbenzene	ND	95	100	5.1	66	71	7.3	70 - 130	30	m
Isopropylbenzene	ND	108	117	8.0	84	91	8.0	70 - 130	30	
m&p-Xylene	ND	95	99	4.1	63	67	6.2	70 - 130	30	m
Methyl ethyl ketone	ND	86	81	6.0	84	74	12.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	106	103	2.9	95	90	5.4	70 - 130	30	
Methylene chloride	ND	91	90	1.1	77	74	4.0	70 - 130	30	
o-Xylene	ND	102	107	4.8	74	75	1.3	70 - 130	30	
Styrene	ND	104	109	4.7	41	44	7.1	70 - 130	30	m
Tetrachloroethene	ND	100	102	2.0	75	80	6.5	70 - 130	30	
Toluene	ND	98	100	2.0	71	75	5.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	98	98	0.0	61	64	4.8	70 - 130	30	m
trans-1,3-Dichloropropene	ND	104	103	1.0	<40	<40	NC	70 - 130	30	m
Trichloroethene	ND	102	104	1.9	112	120	6.9	70 - 130	30	
Trichlorofluoromethane	ND	101	102	1.0	84	88	4.7	70 - 130	30	
Trichlorotrifluoroethane	ND	96	97	1.0	82	85	3.6	70 - 130	30	
Vinyl chloride	ND	97	102	5.0	87	88	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	100	98	2.0	100	98	2.0	70 - 130	30	
% Bromofluorobenzene	91	100	101	1.0	94	92	2.2	70 - 130	30	
% Dibromofluoromethane	96	104	100	3.9	103	91	12.4	70 - 130	30	
% Toluene-d8	100	101	100	1.0	99	100	1.0	70 - 130	30	

QA/QC Batch 202442, QC Sample No: BB96199 (BB96188, BB96189, BB96190, BB96192, BB96193, BB96194, BB96195, BB96196, BB96197, BB96198, BB96199, BB96200, BB96203, BB96204)

Semivolatiles - Solid

1,1-Biphenyl	ND	78	80	2.5	78	81	3.8	30 - 130	30	
1,2,4,5-Tetrachlorobenzene	ND	79	75	5.2	70	74	5.6	30 - 130	30	
2,3,4,6-tetrachlorophenol	ND	>150	>150	NC	124	>150	NC	30 - 130	30	l,m
2,4,5-Trichlorophenol	ND	79	74	6.5	74	79	6.5	30 - 130	30	
2,4,6-Trichlorophenol	ND	80	80	0.0	74	79	6.5	30 - 130	30	

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4-Dichlorophenol	ND	78	78	0.0	76	80	5.1	30 - 130	30	
2,4-Dimethylphenol	ND	63	62	1.6	66	69	4.4	30 - 130	30	
2,4-Dinitrophenol	ND	<5	<5	NC	<5	<5	NC	30 - 130	30	I,m
2,4-Dinitrotoluene	ND	74	72	2.7	69	73	5.6	30 - 130	30	
2,6-Dinitrotoluene	ND	79	75	5.2	73	77	5.3	30 - 130	30	
2-Chloronaphthalene	ND	78	79	1.3	77	81	5.1	30 - 130	30	
2-Chlorophenol	ND	74	74	0.0	70	73	4.2	30 - 130	30	
2-Methylnaphthalene	ND	76	73	4.0	70	73	4.2	30 - 130	30	
2-Methylphenol (o-cresol)	ND	113	111	1.8	108	115	6.3	30 - 130	30	
2-Nitroaniline	ND	145	138	4.9	129	136	5.3	30 - 130	30	I,m
2-Nitrophenol	ND	72	73	1.4	71	75	5.5	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	74	72	2.7	71	75	5.5	30 - 130	30	
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	148	NC	30 - 130	30	I,m
3-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	I,m
4,6-Dinitro-2-methylphenol	ND	15	36	82.4	<5	<5	NC	30 - 130	30	I,m,r
4-Bromophenyl phenyl ether	ND	84	84	0.0	85	86	1.2	30 - 130	30	
4-Chloro-3-methylphenol	ND	76	73	4.0	70	74	5.6	30 - 130	30	
4-Chloroaniline	ND	>150	>150	NC	145	143	1.4	30 - 130	30	I,m
4-Chlorophenyl phenyl ether	ND	83	80	3.7	79	80	1.3	30 - 130	30	
4-Nitroaniline	ND	78	79	1.3	76	80	5.1	30 - 130	30	
4-Nitrophenol	ND	70	67	4.4	<5	13	NC	30 - 130	30	m
Acenaphthene	ND	80	79	1.3	77	79	2.6	30 - 130	30	
Acenaphthylene	ND	79	77	2.6	76	78	2.6	30 - 130	30	
Acetophenone	ND	75	73	2.7	71	75	5.5	30 - 130	30	
Anthracene	ND	82	79	3.7	80	84	4.9	30 - 130	30	
Atrazine	ND	<5	<5	NC	<5	<5	NC	30 - 130	30	I,m
Benz(a)anthracene	ND	74	74	0.0	70	71	1.4	30 - 130	30	
Benzaldehyde	ND	87	86	1.2	75	81	7.7	30 - 130	30	
Benzo(a)pyrene	ND	80	79	1.3	74	77	4.0	30 - 130	30	
Benzo(b)fluoranthene	ND	92	91	1.1	82	86	4.8	30 - 130	30	
Benzo(ghi)perylene	ND	77	73	5.3	85	91	6.8	30 - 130	30	
Benzo(k)fluoranthene	ND	88	90	2.2	76	79	3.9	30 - 130	30	
Benzyl butyl phthalate	ND	64	63	1.6	63	73	14.7	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	75	74	1.3	74	76	2.7	30 - 130	30	
Bis(2-chloroethyl)ether	ND	66	65	1.5	64	68	6.1	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	70	69	1.4	67	71	5.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	74	75	1.3	75	80	6.5	30 - 130	30	
Caprolactam	ND	73	70	4.2	73	78	6.6	30 - 130	30	
Carbazole	ND	130	129	0.8	127	142	11.2	30 - 130	30	m
Chrysene	ND	71	72	1.4	67	67	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	84	81	3.6	89	97	8.6	30 - 130	30	
Dibenzofuran	ND	77	77	0.0	73	76	4.0	30 - 130	30	
Diethyl phthalate	ND	80	76	5.1	72	75	4.1	30 - 130	30	
Dimethylphthalate	ND	82	80	2.5	78	80	2.5	30 - 130	30	
Di-n-butylphthalate	ND	81	78	3.8	82	84	2.4	30 - 130	30	
Di-n-octylphthalate	ND	81	78	3.8	61	62	1.6	30 - 130	30	
Fluoranthene	ND	83	82	1.2	86	103	18.0	30 - 130	30	
Fluorene	ND	81	77	5.1	76	79	3.9	30 - 130	30	
Hexachlorobenzene	ND	81	81	0.0	82	84	2.4	30 - 130	30	
Hexachlorobutadiene	ND	80	78	2.5	77	80	3.8	30 - 130	30	
Hexachlorocyclopentadiene	ND	64	63	1.6	14	9.5	38.3	30 - 130	30	m,r
Hexachloroethane	ND	72	68	5.7	63	66	4.7	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	80	79	1.3	88	95	7.7	30 - 130	30	

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Isophorone	ND	76	76	0.0	74	76	2.7	30 - 130	30
Naphthalene	ND	77	77	0.0	74	78	5.3	30 - 130	30
Nitrobenzene	ND	72	71	1.4	68	72	5.7	30 - 130	30
N-Nitrosodimethylamine	ND	62	55	12.0	59	49	18.5	30 - 130	30
N-Nitrosodi-n-propylamine	ND	69	68	1.5	65	69	6.0	30 - 130	30
N-Nitrosodiphenylamine	ND	96	93	3.2	89	91	2.2	30 - 130	30
Pentachlorophenol	ND	46	60	26.4	35	51	37.2	30 - 130	30
Phenanthrene	ND	82	80	2.5	83	86	3.6	30 - 130	30
Phenol	ND	75	74	1.3	71	75	5.5	30 - 130	30
Pyrene	ND	86	86	0.0	98	114	15.1	30 - 130	30
% 2,4,6-Tribromophenol	90	82	82	0.0	84	92	9.1	15 - 130	30
% 2-Fluorobiphenyl	77	80	81	1.2	76	79	3.9	30 - 130	30
% 2-Fluorophenol	80	72	73	1.4	68	72	5.7	15 - 130	30
% Nitrobenzene-d5	77	73	72	1.4	67	72	7.2	30 - 130	30
% Phenol-d5	79	72	73	1.4	68	71	4.3	15 - 130	30
% Terphenyl-d14	87	91	97	6.4	94	115	20.1	30 - 130	30

QA/QC Batch 202721, QC Sample No: BB97042 (BB96192, BB96197, BB96203)

Volatiles - Solid

1,1,1-Trichloroethane	ND	101	96	5.1	95	97	2.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	101	104	2.9	100	94	6.2	70 - 130	30
1,1,2-Trichloroethane	ND	104	105	1.0	98	97	1.0	70 - 130	30
1,1-Dichloroethane	ND	91	100	9.4	101	88	13.8	70 - 130	30
1,1-Dichloroethene	ND	89	85	4.6	94	94	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	115	126	9.1	99	94	5.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	119	126	5.7	100	97	3.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	107	121	12.3	97	86	12.0	70 - 130	30
1,2-Dibromoethane	ND	109	110	0.9	100	101	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	107	106	0.9	97	98	1.0	70 - 130	30
1,2-Dichloroethane	ND	105	106	0.9	102	100	2.0	70 - 130	30
1,2-Dichloropropane	ND	106	105	0.9	100	102	2.0	70 - 130	30
1,3-Dichlorobenzene	ND	113	111	1.8	98	102	4.0	70 - 130	30
1,4-Dichlorobenzene	ND	110	108	1.8	96	98	2.1	70 - 130	30
2-Hexanone	ND	101	110	8.5	82	85	3.6	70 - 130	30
4-Methyl-2-pentanone	ND	107	115	7.2	101	101	0.0	70 - 130	30
Acetone	ND	66	75	12.8	75	65	14.3	70 - 130	30
Benzene	ND	100	99	1.0	100	101	1.0	70 - 130	30
Bromochloromethane	ND	99	96	3.1	97	94	3.1	70 - 130	30
Bromodichloromethane	ND	109	107	1.9	99	101	2.0	70 - 130	30
Bromoform	ND	114	117	2.6	97	100	3.0	70 - 130	30
Bromomethane	ND	87	74	16.1	84	90	6.9	70 - 130	30
Carbon Disulfide	ND	94	89	5.5	91	94	3.2	70 - 130	30
Carbon tetrachloride	ND	110	103	6.6	108	106	1.9	70 - 130	30
Chlorobenzene	ND	102	100	2.0	95	101	6.1	70 - 130	30
Chloroethane	ND	96	87	9.8	92	101	9.3	70 - 130	30
Chloroform	ND	96	94	2.1	105	92	13.2	70 - 130	30
Chloromethane	ND	86	91	5.6	94	85	10.1	70 - 130	30
cis-1,2-Dichloroethene	ND	96	100	4.1	98	90	8.5	70 - 130	30
cis-1,3-Dichloropropene	ND	112	110	1.8	103	102	1.0	70 - 130	30
Dibromochloromethane	ND	113	113	0.0	97	99	2.0	70 - 130	30
Dichlorodifluoromethane	ND	86	72	17.7	84	93	10.2	70 - 130	30
Ethylbenzene	ND	102	98	4.0	96	102	6.1	70 - 130	30
Isopropylbenzene	ND	117	112	4.4	97	103	6.0	70 - 130	30

QA/QC Data

SDG I.D.: GBB96188

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
m&p-Xylene	ND	102	98	4.0	96	100	4.1	70 - 130	30
Methyl ethyl ketone	ND	77	86	11.0	79	69	13.5	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	101	104	2.9	100	95	5.1	70 - 130	30
Methylene chloride	ND	91	87	4.5	84	86	2.4	70 - 130	30
o-Xylene	ND	106	104	1.9	99	104	4.9	70 - 130	30
Styrene	ND	102	106	3.8	98	104	5.9	70 - 130	30
Tetrachloroethene	ND	110	108	1.8	103	107	3.8	70 - 130	30
Toluene	ND	102	99	3.0	98	102	4.0	70 - 130	30
trans-1,2-Dichloroethene	ND	96	92	4.3	94	93	1.1	70 - 130	30
trans-1,3-Dichloropropene	ND	110	113	2.7	101	102	1.0	70 - 130	30
Trichloroethene	ND	104	100	3.9	99	101	2.0	70 - 130	30
Trichlorofluoromethane	ND	96	91	5.3	92	94	2.2	70 - 130	30
Trichlorotrifluoroethane	ND	97	90	7.5	91	97	6.4	70 - 130	30
Vinyl chloride	ND	98	95	3.1	90	91	1.1	70 - 130	30
% 1,2-dichlorobenzene-d4	101	99	101	2.0	101	98	3.0	70 - 130	30
% Bromofluorobenzene	96	100	100	0.0	98	101	3.0	70 - 130	30
% Dibromofluoromethane	101	101	103	2.0	102	98	4.0	70 - 130	30
% Toluene-d8	95	101	99	2.0	100	101	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

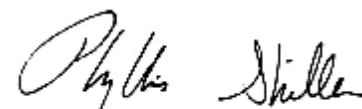
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

July 06, 2012

Friday, July 06, 2012

Sample Criteria Exceedences Report

GBB96188

Page 1 of 1

Requested Criteria: None

State: NY

SampNo	LocCode	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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

4 people RSP

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

Data Delivery:

☐ Fax #:

☒ Email:

Temp

Pg of

Customer:

Address:

145 West Street

Report to: Richard Galletti

Invoice to: Richard Galletti

Project P.O.:

Phone #:

Fax #:

Sampler's Signature

Client Sample - Information - Identification

Date:

Matrix Code:

DW=drinking water

GW=groundwater

WW=wastewater

SL=sludge

S=solid/solid

A=air

O=oil

X=other

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
✓	WS-5-1	S	6/7	
✓	WS-5-2	S	6/7	
✓	WS-5-3	S	6/7	
✓	Topsoil	✓	6/7	
✓	~~WS-5-4~~ 20m	S	6/8	
✓	WS-5-230	S	6/8	
✓	WS-5-2	S	6/8	
✓	WS-5-230	S	6/8	
✓	WS-5-3	S	6/8	
✓	~~WS-5-4~~	S	6/8	
✓	WS-5-4	S	6/8	
✓	~~WS-5-5~~	S	6/8	
✓	WS-5-4	S	6/8	

Shannon - Phoenixlabs

From: Sarah - Phoenixlabs [sarah@phoenixlabs.com]
Sent: Monday, June 11, 2012 05:39 PM
To: 'Shannon - Phoenixlabs'
Subject: Galli

Please run the ones that are crossed off on the chain.

Sarah Bell
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 1-860-645-1102

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, forwarding, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by e-mail or telephone, and delete the original message immediately.

6/12/2012

Shannon - Phoenixlabs

From: Sarah - Phoenixlabs [sarah@phoenixlabs.com]

Sent: Monday, June 11, 2012 02:38 PM

To: 'Lori - Phoenixlabs'; 'Shannon - Phoenixlabs'

Subject: FW: question

Can you stick this with any galli work for 145 West that comes in today.

Sarah Bell

Client Services Representative

Phoenix Environmental Laboratories

587 East Middle Turnpike

Manchester, CT 06040

Ph: 1-860-645-1102

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, forwarding, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by e-mail or telephone, and delete the original message immediately.

From: Ken Brooks [mailto:kbrooks@gallieng.com]

Sent: Monday, June 11, 2012 2:10 PM

To: 'Sarah - Phoenixlabs'

Cc: 'Frank Gehrling'; 'Scott Davidow'

Subject: RE: question

Please go with TCL VOC and SVOC for all regular samples. This does not apply to any waste characterization samples you may receive.

I am also instructed to ask for any results you can release. I understand that a payment was just made.

Ken Brooks, P.E.

Senior Vice President

Galli Engineering, P.C.

734 Walt Whitman Rd., Suite 402A

Melville, NY 11747

(631) 271-9292

FAX (631) 271-9345

kbrooks@gallieng.com

From: Sarah - Phoenixlabs [mailto:sarah@phoenixlabs.com]

Sent: Monday, June 11, 2012 1:38 PM

To: 'Ken Brooks'

Subject: RE: question

So TCL Semi's and TCL Voa's are different than what is being written on the chain. The TIC's

6/11/2012



Wednesday, October 10, 2012

Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST
Sample ID#s: BC73378 - BC73379

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,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

October 10, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: GROUND WATER
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
09/24/12 0:00
09/25/12 15:49

Laboratory Data

SDG ID: GBC73378
Phoenix ID: BC73378

Project ID: 145 WEST
Client ID: MW 102

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/26/12	EK	SW6010
Aluminum	0.417	0.010	mg/L	09/26/12	EK	SW6010
Arsenic	0.012	0.004	mg/L	09/26/12	EK	SW6010
Barium	0.307	0.002	mg/L	09/26/12	EK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/26/12	EK	SW6010
Calcium	39.5	0.010	mg/L	09/26/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/26/12	EK	SW6010
Cobalt	< 0.002	0.002	mg/L	09/26/12	EK	SW6010
Chromium	< 0.001	0.001	mg/L	09/26/12	EK	SW6010
Copper	< 0.005	0.005	mg/L	09/26/12	EK	SW6010
Iron	10.4	0.010	mg/L	09/26/12	EK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/26/12	RS	SW7470
Potassium	23.9	0.1	mg/L	09/26/12	EK	SW6010
Magnesium	16.1	0.01	mg/L	09/26/12	EK	SW6010
Manganese	0.241	0.001	mg/L	09/26/12	EK	SW6010
Sodium	130	1.0	mg/L	09/26/12	EK	SW6010
Nickel	< 0.001	0.001	mg/L	09/26/12	EK	SW6010
Lead	0.002	0.002	mg/L	09/26/12	EK	SW6010
Antimony	< 0.005	0.005	mg/L	09/26/12	EK	SW6010
Selenium	< 0.010	0.010	mg/L	09/26/12	EK	SW6010
Thallium	< 0.002	0.002	mg/L	09/27/12	RS	SW7010
Vanadium	< 0.002	0.002	mg/L	09/26/12	EK	SW6010
Zinc	0.004	0.002	mg/L	09/26/12	EK	SW6010
Mercury Digestion	Completed			09/26/12	X/X	SW7470
Semi-Volatile Extraction	Completed			09/25/12	I/K	SW3520
Total Metals Digestion	Completed			09/25/12	AG	
Volatile Library Search Top 10	Completed			10/03/12	R/T	

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1,2-Trichloroethane	ND	3.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloroethane	ND	2.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
2-Hexanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
4-Methyl-2-pentanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Acetone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/25/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromodichloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromoform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Bromomethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Carbon Disulfide	ND	1.0	ug/L	09/25/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
Chlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloromethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Cyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Dibromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Ethylbenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl ethyl ketone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	1.6	1.0	ug/L	09/25/12	R/T	SW8260
Methylacetate	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylcyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylene chloride	ND	3.0	ug/L	09/25/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Toluene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/25/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	09/25/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	1.0	ug/L	09/25/12	R/T	SW8260

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	80		%	09/25/12	R/T	70 - 130 %
% Dibromofluoromethane	95		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	88		%	09/25/12	R/T	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/l	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	80		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	88		%	09/25/12	R/T	70 - 130 %
SVOA Library Search Top 15	Completed			09/27/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	5.0	ug/L	09/26/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	5.0	ug/L	09/26/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/26/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
2,4-Dichlorophenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
2,4-Dimethylphenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
2,4-Dinitrophenol	ND	10	ug/L	09/26/12	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/26/12	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/26/12	DD	SW 8270
2-Chloronaphthalene	ND	5.0	ug/L	09/26/12	DD	SW 8270
2-Chlorophenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
2-Methylnaphthalene	ND	5.0	ug/L	09/26/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	5.0	ug/L	09/26/12	DD	SW 8270
2-Nitroaniline	ND	10	ug/L	09/26/12	DD	SW 8270
2-Nitrophenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	5.0	ug/L	09/26/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	5.0	ug/L	09/26/12	DD	SW 8270
3-Nitroaniline	ND	10	ug/L	09/26/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	10	ug/L	09/26/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/26/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
4-Chloroaniline	ND	5.0	ug/L	09/26/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/26/12	DD	SW 8270
4-Nitroaniline	ND	10	ug/L	09/26/12	DD	SW 8270
4-Nitrophenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
Acenaphthene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Acenaphthylene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Acetophenone	ND	5.0	ug/L	09/26/12	DD	SW 8270
Anthracene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Atrazine	ND	5.0	ug/L	09/26/12	DD	SW 8270
Benz(a)anthracene	ND	5.0	ug/L	09/26/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzaldehyde	ND	5.0	ug/L	09/26/12	DD	SW 8270
Benzo(a)pyrene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Benzo(b)fluoranthene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Benzo(ghi)perylene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Benzo(k)fluoranthene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/26/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/26/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/26/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/26/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/L	09/26/12	DD	SW 8270
Caprolactam	ND	5.0	ug/L	09/26/12	DD	SW 8270
Carbazole	ND	5.0	ug/L	09/26/12	DD	SW 8270
Chrysene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Dibenzofuran	ND	5.0	ug/L	09/26/12	DD	SW 8270
Diethyl phthalate	ND	5.0	ug/L	09/26/12	DD	SW 8270
Dimethylphthalate	ND	5.0	ug/L	09/26/12	DD	SW 8270
Di-n-butylphthalate	ND	5.0	ug/L	09/26/12	DD	SW 8270
Di-n-octylphthalate	ND	5.0	ug/L	09/26/12	DD	SW 8270
Fluoranthene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Fluorene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Hexachlorobenzene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Hexachlorobutadiene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Hexachloroethane	ND	5.0	ug/L	09/26/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Isophorone	ND	5.0	ug/L	09/26/12	DD	SW 8270
Naphthalene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Nitrobenzene	ND	5.0	ug/L	09/26/12	DD	SW 8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/26/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/26/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/26/12	DD	SW 8270
Pentachlorophenol	ND	10	ug/L	09/26/12	DD	SW 8270
Phenanthrene	ND	5.0	ug/L	09/26/12	DD	SW 8270
Phenol	ND	5.0	ug/L	09/26/12	DD	SW 8270
Pyrene	ND	5.0	ug/L	09/26/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	107		%	09/26/12	DD	30 - 130 %
% 2-Fluorobiphenyl	73		%	09/26/12	DD	40 - 140 %
% 2-Fluorophenol	61		%	09/26/12	DD	30 - 130 %
% Nitrobenzene-d5	78		%	09/26/12	DD	40 - 140 %
% Phenol-d5	66		%	09/26/12	DD	30 - 130 %
% Terphenyl-d14	74		%	09/26/12	DD	40 - 140 %

Project ID: 145 WEST
Client ID: MW 102

Phoenix I.D.: BC73378

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

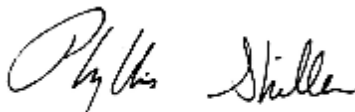
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Pratical 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

October 10, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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



Analysis Report

October 10, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: GROUND WATER
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

09/24/12
09/25/12

Time

0:00
15:49

Laboratory Data

SDG ID: GBC73378
Phoenix ID: BC73379

Project ID: 145 WEST
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Volatile Library Search Top 10	Completed			10/03/12	R/T	1

Volatiles

1,1,1-Trichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1,2-Trichloroethane	ND	3.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloroethane	ND	2.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
2-Hexanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
4-Methyl-2-pentanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Acetone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/25/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromodichloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromoform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Bromomethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Carbon Disulfide	ND	1.0	ug/L	09/25/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
Chlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Chloroform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloromethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Cyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Dibromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Ethylbenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl ethyl ketone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methylacetate	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylcyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylene chloride	ND	3.0	ug/L	09/25/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Toluene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/25/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	09/25/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	78		%	09/25/12	R/T	70 - 130 %
% Dibromofluoromethane	97		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	85		%	09/25/12	R/T	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/l	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	78		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	85		%	09/25/12	R/T	70 - 130 %

Project ID: 145 WEST
Client ID: TRIP BLANK

Phoenix I.D.: BC73379

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

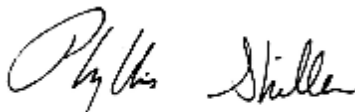
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Pratical 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

October 10, 2012

Reviewed and Released by: Johanna Harrington, Project Manager

MW 102



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



QA/QC Report

October 10, 2012

QA/QC Data

SDG I.D.: GBC73378

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 209992, QC Sample No: BC72917 (BC73378)												
Thallium - Water	BRL	<0.001	<0.002	NC	98.6	99.9	1.3	95.6	95.7	0.1	75 - 125	20
QA/QC Batch 210092, QC Sample No: BC73152 (BC73378)												
<u>ICP Metals - Aqueous</u>												
Aluminum	BRL	0.627	0.569	9.70	94.5	92.9	1.7	124	119	4.1	75 - 125	20
Antimony	BRL	0.008	<0.005	NC	100	100	0.0	99.9	102	2.1	75 - 125	20
Arsenic	BRL	0.006	<0.004	NC	97.9	97.0	0.9	99.0	100	1.0	75 - 125	20
Barium	BRL	0.039	0.040	2.50	98.5	97.1	1.4	99.5	99.6	0.1	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	98.4	99.0	0.6	94.2	94.8	0.6	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	99.3	98.2	1.1	92.8	93.3	0.5	75 - 125	20
Calcium	BRL	111	112	0.90	98.5	98.2	0.3	NC	NC	NC	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	97.8	96.5	1.3	93.4	94.4	1.1	75 - 125	20
Cobalt	BRL	<0.002	<0.002	NC	103	102	1.0	96.4	97.6	1.2	75 - 125	20
Copper	BRL	0.010	0.008	NC	99.4	99.3	0.1	105	106	0.9	75 - 125	20
Iron	BRL	0.991	1.01	1.90	99.4	98.2	1.2	92.8	95.4	2.8	75 - 125	20
Lead	BRL	<0.002	0.004	NC	99.6	98.4	1.2	94.3	95.7	1.5	75 - 125	20
Magnesium	BRL	303	310	2.30	99.3	97.6	1.7	NC	NC	NC	75 - 125	20
Manganese	BRL	0.053	0.054	1.90	99.7	98.7	1.0	95.1	95.7	0.6	75 - 125	20
Nickel	BRL	<0.001	0.001	NC	100	99.4	0.6	93.5	94.5	1.1	75 - 125	20
Potassium	BRL	174	178	2.30	94.6	94.6	0.0	NC	NC	NC	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	93.1	93.3	0.2	94.9	95.7	0.8	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	95.3	95.5	0.2	103	105	1.9	75 - 125	20
Sodium	BRL	3900	3940	1.00	108	106	1.9	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	97.6	97.6	0.0	95.7	97.6	2.0	75 - 125	20
Zinc	BRL	0.009	0.009	NC	99.3	98.3	1.0	97.8	98.9	1.1	75 - 125	20
QA/QC Batch 210125, QC Sample No: BC73378 (BC73378)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	104	106	1.9	105	107	1.9	70 - 130	20



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October 10, 2012

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SDG I.D.: GBC73378

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 210140, QC Sample No: BC72880 (BC73378, BC73379)									
<u>Volatiles - Ground Water</u>									
1,1,1-Trichloroethane	ND	92	84	9.1	85	87	2.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	116	109	6.2	109	117	7.1	70 - 130	30
1,1,2-Trichloroethane	ND	81	78	3.8	79	81	2.5	70 - 130	30
1,1-Dichloroethane	ND	90	82	9.3	86	92	6.7	70 - 130	30
1,1-Dichloroethene	ND	76	69	9.7	87	89	2.3	70 - 130	30
1,2,3-Trichlorobenzene	ND	118	116	1.7	103	110	6.6	70 - 130	30
1,2,4-Trichlorobenzene	ND	116	115	0.9	102	107	4.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	104	101	2.9	89	100	11.6	70 - 130	30
1,2-Dibromoethane	ND	81	78	3.8	80	79	1.3	70 - 130	30
1,2-Dichlorobenzene	ND	120	114	5.1	113	114	0.9	70 - 130	30
1,2-Dichloroethane	ND	98	93	5.2	90	93	3.3	70 - 130	30
1,2-Dichloropropane	ND	89	84	5.8	78	79	1.3	70 - 130	30
1,3-Dichlorobenzene	ND	122	117	4.2	113	114	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	121	116	4.2	113	114	0.9	70 - 130	30
2-Hexanone	ND	106	93	13.1	93	99	6.3	70 - 130	30
4-Methyl-2-pentanone	ND	77	74	4.0	72	77	6.7	70 - 130	30
Acetone	ND	81	76	6.4	81	89	9.4	70 - 130	30
Benzene	ND	92	85	7.9	90	91	1.1	70 - 130	30
Bromochloromethane	ND	92	87	5.6	87	91	4.5	70 - 130	30
Bromodichloromethane	ND	83	80	3.7	71	72	1.4	70 - 130	30
Bromoform	ND	98	94	4.2	90	91	1.1	70 - 130	30
Bromomethane	ND	79	72	9.3	68	79	15.0	70 - 130	30
Carbon Disulfide	ND	75	68	9.8	84	88	4.7	70 - 130	30
Carbon tetrachloride	ND	94	89	5.5	88	86	2.3	70 - 130	30
Chlorobenzene	ND	110	104	5.6	106	105	0.9	70 - 130	30
Chloroethane	ND	102	93	9.2	114	118	3.4	70 - 130	30
Chloroform	ND	91	83	9.2	84	88	4.7	70 - 130	30
Chloromethane	ND	81	72	11.8	91	97	6.4	70 - 130	30
cis-1,2-Dichloroethene	ND	90	84	6.9	86	90	4.5	70 - 130	30
cis-1,3-Dichloropropene	ND	75	71	5.5	69	70	1.4	70 - 130	30
Dibromochloromethane	ND	103	100	3.0	96	97	1.0	70 - 130	30
Dichlorodifluoromethane	ND	92	83	10.3	111	114	2.7	70 - 130	30
Ethylbenzene	ND	108	101	6.7	103	102	1.0	70 - 130	30
Isopropylbenzene	ND	135	125	7.7	112	115	2.6	70 - 130	30
m&p-Xylene	ND	110	105	4.7	106	104	1.9	70 - 130	30
Methyl ethyl ketone	ND	82	76	7.6	87	96	9.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	93	88	5.5	85	87	2.3	70 - 130	30
Methylene chloride	ND	75	69	8.3	76	80	5.1	70 - 130	30
o-Xylene	ND	55	52	5.6	53	52	1.9	70 - 130	30
Styrene	ND	56	53	5.5	53	52	1.9	70 - 130	30
Tetrachloroethene	ND	110	104	5.6	103	99	4.0	70 - 130	30

QA/QC Data

SDG I.D.: GBC73378

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toluene	ND	81	76	6.4	80	78	2.5	70 - 130	30
trans-1,2-Dichloroethene	ND	84	76	10.0	83	86	3.6	70 - 130	30
trans-1,3-Dichloropropene	ND	73	70	4.2	69	71	2.9	70 - 130	30
Trichloroethene	ND	93	88	5.5	92	89	3.3	70 - 130	30
Trichlorofluoromethane	ND	108	98	9.7	94	96	2.1	70 - 130	30
Trichlorotrifluoroethane	ND	95	88	7.7	88	88	0.0	70 - 130	30
Vinyl chloride	ND	92	83	10.3	88	92	4.4	70 - 130	30
% 1,2-dichlorobenzene-d4	101	100	99	1.0	99	101	2.0	70 - 130	30
% Bromofluorobenzene	81	90	89	1.1	85	88	3.5	70 - 130	30
% Dibromofluoromethane	95	98	96	2.1	98	100	2.0	70 - 130	30
% Toluene-d8	84	86	85	1.2	87	87	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 210074, QC Sample No: BC73055 (BC73378)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	93	92	1.1				30 - 130	20
2,4,5-Trichlorophenol	ND	100	100	0.0				30 - 130	20
2,4,6-Trichlorophenol	ND	102	101	1.0				30 - 130	20
2,4-Dichlorophenol	ND	100	99	1.0				30 - 130	20
2,4-Dimethylphenol	ND	68	68	0.0				30 - 130	20
2,4-Dinitrophenol	ND	95	101	6.1				30 - 130	20
2,4-Dinitrotoluene	ND	102	102	0.0				30 - 130	20
2,6-Dinitrotoluene	ND	99	100	1.0				30 - 130	20
2-Chloronaphthalene	ND	87	86	1.2				30 - 130	20
2-Chlorophenol	ND	81	80	1.2				30 - 130	20
2-Methylnaphthalene	ND	88	88	0.0				30 - 130	20
2-Methylphenol (o-cresol)	ND	81	80	1.2				30 - 130	20
2-Nitroaniline	ND	94	95	1.1				30 - 130	20
2-Nitrophenol	ND	104	105	1.0				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	78	79	1.3				30 - 130	20
3,3'-Dichlorobenzidine	ND	N/A	N/A	NC				30 - 130	20
3-Nitroaniline	ND	99	99	0.0				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	109	116	6.2				30 - 130	20
4-Bromophenyl phenyl ether	ND	93	94	1.1				30 - 130	20
4-Chloro-3-methylphenol	ND	110	109	0.9				30 - 130	20
4-Chloroaniline	ND	113	113	0.0				30 - 130	20
4-Chlorophenyl phenyl ether	ND	91	92	1.1				30 - 130	20
4-Nitroaniline	ND	112	112	0.0				30 - 130	20
4-Nitrophenol	ND	123	128	4.0				30 - 130	20
Acenaphthene	ND	80	79	1.3				30 - 130	20
Acenaphthylene	ND	47	47	0.0				30 - 130	20
Acetophenone	ND	83	84	1.2				30 - 130	20
Anthracene	ND	86	87	1.2				30 - 130	20
Benz(a)anthracene	ND	96	97	1.0				30 - 130	20
Benzo(a)pyrene	ND	80	80	0.0				30 - 130	20
Benzo(b)fluoranthene	ND	93	97	4.2				30 - 130	20
Benzo(ghi)perylene	ND	90	90	0.0				30 - 130	20
Benzo(k)fluoranthene	ND	90	87	3.4				30 - 130	20
Benzyl butyl phthalate	ND	90	88	2.2				30 - 130	20
Bis(2-chloroethoxy)methane	ND	44	44	0.0				30 - 130	20
Bis(2-chloroethyl)ether	ND	80	80	0.0				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	96	97	1.0				30 - 130	20

QA/QC Data

SDG I.D.: GBC73378

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bis(2-ethylhexyl)phthalate	ND	72	73	1.4				30 - 130	20
Carbazole	ND	113	115	1.8				30 - 130	20
Chrysene	ND	93	94	1.1				30 - 130	20
Dibenz(a,h)anthracene	ND	97	98	1.0				30 - 130	20
Dibenzofuran	ND	88	87	1.1				30 - 130	20
Diethyl phthalate	ND	97	97	0.0				30 - 130	20
Dimethylphthalate	ND	93	93	0.0				30 - 130	20
Di-n-butylphthalate	ND	96	96	0.0				30 - 130	20
Di-n-octylphthalate	ND	91	95	4.3				30 - 130	20
Fluoranthene	ND	94	95	1.1				30 - 130	20
Fluorene	ND	86	86	0.0				30 - 130	20
Hexachlorobenzene	ND	97	96	1.0				30 - 130	20
Hexachlorobutadiene	ND	88	88	0.0				30 - 130	20
Hexachlorocyclopentadiene	ND	85	85	0.0				30 - 130	20
Hexachloroethane	ND	82	82	0.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	95	95	0.0				30 - 130	20
Isophorone	ND	105	105	0.0				30 - 130	20
Naphthalene	ND	72	72	0.0				30 - 130	20
Nitrobenzene	ND	92	92	0.0				30 - 130	20
N-Nitrosodimethylamine	ND	76	74	2.7				30 - 130	20
N-Nitrosodi-n-propylamine	ND	90	89	1.1				30 - 130	20
N-Nitrosodiphenylamine	ND	89	90	1.1				30 - 130	20
Pentachlorophenol	ND	118	122	3.3				30 - 130	20
Phenanthrene	ND	88	89	1.1				30 - 130	20
Phenol	ND	78	78	0.0				30 - 130	20
Pyrene	ND	94	95	1.1				30 - 130	20
% 2,4,6-Tribromophenol	86	113	114	0.9				30 - 130	20
% 2-Fluorobiphenyl	72	76	76	0.0				40 - 140	20
% 2-Fluorophenol	64	67	68	1.5				30 - 130	20
% Nitrobenzene-d5	73	90	90	0.0				40 - 140	20
% Phenol-d5	64	50	51	2.0				30 - 130	20
% Terphenyl-d14	103	105	105	0.0				40 - 140	20

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

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

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

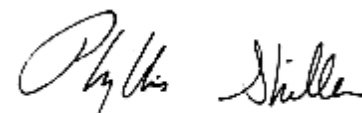
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

October 10, 2012

Sample Criteria Exceedences Report

Requested Criteria: GW

GBC73378 - GALLI-ENG

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC73378	\$8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BC73378	\$8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BC73378	\$8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BC73378	\$8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	3.0	1	1	ug/L
BC73378	\$8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BC73378	\$8260_TCLR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	3	3	ug/L
BC73378	\$8260_TCLR	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5.0	4.7	4.7	ug/L
BC73378	\$8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BC73378	\$8270WM_TCL	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BC73378	\$8270WM_TCL	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.5	0.5	ug/L
BC73378	\$8270WM_TCL	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC73378	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC73378	\$8270WM_TCL	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC73378	\$8270WM_TCL	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC73378	\$8270WM_TCL	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC73378	\$8270WM_TCL	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC73378	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC73378	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC73378	\$8270WM_TCL	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC73378	\$8270WM_TCL	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC73378	\$8270WM_TCL	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC73378	\$8270WM_TCL	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC73378	\$8270WM_TCL	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.35	0.35	ug/L
BC73378	\$8270WM_TCL	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L
BC73378	\$8270WM_TCL	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC73378	\$8270WM_TCL	Pentachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC73378	\$8270WM_TCL	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L

Sample Criteria Exceedences Report

Requested Criteria: GW

GBC73378 - GALLI-ENG

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC73378	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC73378	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC73378	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.417	0.010	0.1	0.1	mg/L
BC73378	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	10.4	0.010	0.3	0.3	mg/L
BC73378	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	130	1.0	20	20	mg/L
BC73378	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BC73378	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BC73379	\$8260_TCLR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.6	0.6	ug/L
BC73379	\$8260_TCLR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BC73379	\$8260_TCLR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BC73379	\$8260_TCLR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	3.0	1	1	ug/L
BC73379	\$8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BC73379	\$8260_TCLR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	3	3	ug/L
BC73379	\$8260_TCLR	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5.0	4.7	4.7	ug/L
BC73379	\$8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

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



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



NY Temperature Narration

October 10, 2012

SDG I.D.: GBC73378

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



Wednesday, October 10, 2012

Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: 145 WEST ST.
Sample ID#s: BC72877 - BC72880

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,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Analysis Report

October 10, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: GROUND WATER
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date

09/21/12
09/24/12

Time

11:30
16:01

Laboratory Data

SDG ID: GBC72877
Phoenix ID: BC72877

Project ID: 145 WEST ST.
Client ID: MW101

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Aluminum	2.02	0.010	mg/L	09/26/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	09/26/12	LK	SW6010
Barium	0.293	0.002	mg/L	09/26/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Calcium	127	0.010	mg/L	09/26/12	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Cobalt	0.003	0.002	mg/L	09/26/12	LK	SW6010
Chromium	0.004	0.001	mg/L	09/26/12	LK	SW6010
Copper	< 0.005	0.005	mg/L	09/26/12	LK	SW6010
Iron	7.49	0.010	mg/L	09/26/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/25/12	RS	SW7470
Potassium	29.7	0.1	mg/L	09/26/12	LK	SW6010
Magnesium	22.5	0.01	mg/L	09/26/12	LK	SW6010
Manganese	5.12	0.010	mg/L	09/26/12	LK	SW6010
Sodium	158	1.0	mg/L	09/26/12	LK	SW6010
Nickel	0.006	0.001	mg/L	09/26/12	LK	SW6010
Lead	0.004	0.002	mg/L	09/26/12	LK	SW6010
Antimony	< 0.003	0.003	mg/L	09/26/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	09/26/12	LK	SW6010
Thallium	< 0.0005	0.0005	mg/L	09/27/12	RS	SW7010
Vanadium	0.009	0.002	mg/L	09/26/12	LK	SW6010
Zinc	0.013	0.002	mg/L	09/26/12	LK	SW6010
Mercury Digestion	Completed			09/25/12	X/X	SW7470
Semi-Volatile Extraction	Completed			09/24/12	I/X	SW3520
Total Metals Digestion	Completed			09/24/12	AG	
Volatile Library Search Top 10	Completed			10/03/12	R/T	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dibromoethane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloroethane	ND	0.6	ug/L	09/25/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
2-Hexanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
4-Methyl-2-pentanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Acetone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/25/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromodichloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromoform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Bromomethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Carbon Disulfide	ND	1.0	ug/L	09/25/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
Chlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloromethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260
Cyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Dibromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Ethylbenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl ethyl ketone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methylacetate	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylcyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylene chloride	ND	3.0	ug/L	09/25/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Toluene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/25/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	09/25/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260

B

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	79		%	09/25/12	R/T	70 - 130 %
% Dibromofluoromethane	98		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	85		%	09/25/12	R/T	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/l	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	79		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	85		%	09/25/12	R/T	70 - 130 %
SVOA Library Search Top 15	Completed			09/26/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	5.0	ug/L	09/25/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/25/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dichlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dimethylphenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dinitrophenol	ND	10	ug/L	09/25/12	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Chloronaphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Chlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Methylnaphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
2-Nitrophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	5.0	ug/L	09/25/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	5.0	ug/L	09/25/12	DD	SW 8270
3-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	10	ug/L	09/25/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chloroaniline	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
4-Nitrophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acenaphthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acenaphthylene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acetophenone	ND	5.0	ug/L	09/25/12	DD	SW 8270
Anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Atrazine	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benz(a)anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzaldehyde	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(a)pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(b)fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(ghi)perylene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(k)fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Caprolactam	ND	5.0	ug/L	09/25/12	DD	SW 8270
Carbazole	ND	5.0	ug/L	09/25/12	DD	SW 8270
Chrysene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dibenzofuran	ND	5.0	ug/L	09/25/12	DD	SW 8270
Diethyl phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dimethylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Di-n-butylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Di-n-octylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Fluorene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorobutadiene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachloroethane	ND	5.0	ug/L	09/25/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Isophorone	ND	5.0	ug/L	09/25/12	DD	SW 8270
Naphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Nitrobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
Pentachlorophenol	ND	10	ug/L	09/25/12	DD	SW 8270
Phenanthrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Phenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
Pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	90		%	09/25/12	DD	30 - 130 %
% 2-Fluorobiphenyl	76		%	09/25/12	DD	40 - 140 %
% 2-Fluorophenol	60		%	09/25/12	DD	30 - 130 %
% Nitrobenzene-d5	77		%	09/25/12	DD	40 - 140 %
% Phenol-d5	60		%	09/25/12	DD	30 - 130 %
% Terphenyl-d14	61		%	09/25/12	DD	40 - 140 %

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.

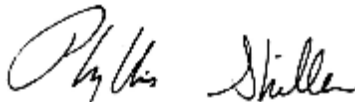
RL/PQL=Reporting/Pratical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected

BRL=Below Reporting Level

Comments:

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

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



Phyllis Shiller, Laboratory Director

October 10, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

October 10, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: GROUND WATER
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date

09/21/12
09/24/12

Time

11:30
16:01

Laboratory Data

SDG ID: GBC72877
Phoenix ID: BC72878

Project ID: 145 WEST ST.
Client ID: MW104

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Aluminum	0.010	0.010	mg/L	09/26/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	09/26/12	LK	SW6010
Barium	0.417	0.002	mg/L	09/26/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Calcium	163	0.10	mg/L	09/26/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Cobalt	< 0.002	0.002	mg/L	09/26/12	LK	SW6010
Chromium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Copper	< 0.005	0.005	mg/L	09/26/12	LK	SW6010
Iron	1.31	0.010	mg/L	09/26/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/25/12	RS	SW7470
Potassium	157	1.0	mg/L	09/26/12	LK	SW6010
Magnesium	291	0.10	mg/L	09/26/12	LK	SW6010
Manganese	0.457	0.001	mg/L	09/26/12	LK	SW6010
Sodium	2210	10	mg/L	09/26/12	LK	SW6010
Nickel	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Lead	< 0.002	0.002	mg/L	09/26/12	LK	SW6010
Antimony	< 0.003	0.003	mg/L	09/26/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	09/26/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	09/27/12	RS	SW7010
Vanadium	< 0.002	0.002	mg/L	09/26/12	LK	SW6010
Zinc	< 0.002	0.002	mg/L	09/26/12	LK	SW6010
Mercury Digestion	Completed			09/25/12	X/X	SW7470
Semi-Volatile Extraction	Completed			09/24/12	I/X	SW3520
Total Metals Digestion	Completed			09/24/12	AG	
Volatile Library Search Top 10	Completed			10/03/12	R/T	

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dibromoethane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloroethane	ND	0.6	ug/L	09/25/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
2-Hexanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
4-Methyl-2-pentanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Acetone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/25/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromodichloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromoform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Bromomethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Carbon Disulfide	ND	1.0	ug/L	09/25/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
Chlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloromethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260
Cyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Dibromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Ethylbenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl ethyl ketone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methylacetate	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylcyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylene chloride	ND	3.0	ug/L	09/25/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Toluene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/25/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	09/25/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	79		%	09/25/12	R/T	70 - 130 %
% Dibromofluoromethane	97		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	86		%	09/25/12	R/T	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/l	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	79		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	86		%	09/25/12	R/T	70 - 130 %
SVOA Library Search Top 15	Completed			09/26/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	5.0	ug/L	09/25/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/25/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dichlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dimethylphenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dinitrophenol	ND	10	ug/L	09/25/12	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Chloronaphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Chlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Methylnaphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
2-Nitrophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	5.0	ug/L	09/25/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	5.0	ug/L	09/25/12	DD	SW 8270
3-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	10	ug/L	09/25/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chloroaniline	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
4-Nitrophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acenaphthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acenaphthylene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acetophenone	ND	5.0	ug/L	09/25/12	DD	SW 8270
Anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Atrazine	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benz(a)anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzaldehyde	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(a)pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(b)fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(ghi)perylene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(k)fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Caprolactam	ND	5.0	ug/L	09/25/12	DD	SW 8270
Carbazole	ND	5.0	ug/L	09/25/12	DD	SW 8270
Chrysene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dibenzofuran	ND	5.0	ug/L	09/25/12	DD	SW 8270
Diethyl phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dimethylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Di-n-butylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Di-n-octylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Fluorene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorobutadiene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachloroethane	ND	5.0	ug/L	09/25/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Isophorone	ND	5.0	ug/L	09/25/12	DD	SW 8270
Naphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Nitrobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
Pentachlorophenol	ND	10	ug/L	09/25/12	DD	SW 8270
Phenanthrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Phenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
Pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	82		%	09/25/12	DD	30 - 130 %
% 2-Fluorobiphenyl	70		%	09/25/12	DD	40 - 140 %
% 2-Fluorophenol	47		%	09/25/12	DD	30 - 130 %
% Nitrobenzene-d5	72		%	09/25/12	DD	40 - 140 %
% Phenol-d5	52		%	09/25/12	DD	30 - 130 %
% Terphenyl-d14	70		%	09/25/12	DD	40 - 140 %

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

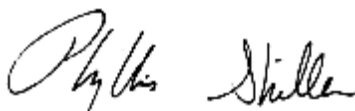
Comments:

Thallium comment:

The analytical spike for this sample was outside of acceptance criteria, multiple analyses verified matrix interference. Due to the matrix interference, an elevated RL is reported.

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

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Phyllis Shiller, Laboratory Director

October 10, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

October 10, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: GROUND WATER
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date	Time
09/21/12	13:26
09/24/12	16:01

Laboratory Data

SDG ID: GBC72877
Phoenix ID: BC72879

Project ID: 145 WEST ST.
Client ID: MW103

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Aluminum	0.055	0.010	mg/L	09/26/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	09/26/12	LK	SW6010
Barium	0.082	0.002	mg/L	09/26/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Calcium	319	0.10	mg/L	09/26/12	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Cobalt	< 0.002	0.002	mg/L	09/26/12	LK	SW6010
Chromium	< 0.001	0.001	mg/L	09/26/12	LK	SW6010
Copper	< 0.005	0.005	mg/L	09/26/12	LK	SW6010
Iron	0.132	0.010	mg/L	09/26/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/25/12	RS	SW7470
Potassium	300	100	mg/L	09/26/12	LK	SW6010
Magnesium	834	0.10	mg/L	09/26/12	LK	SW6010
Manganese	0.024	0.001	mg/L	09/26/12	LK	SW6010
Sodium	7740	100	mg/L	09/26/12	LK	SW6010
Nickel	0.003	0.001	mg/L	09/26/12	LK	SW6010
Lead	0.278	0.002	mg/L	09/26/12	LK	SW6010
Antimony	< 0.003	0.003	mg/L	09/26/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	09/26/12	LK	SW6010
Thallium	< 0.0005	0.0005	mg/L	09/27/12	RS	SW7010
Vanadium	< 0.002	0.002	mg/L	09/26/12	LK	SW6010
Zinc	0.106	0.002	mg/L	09/26/12	LK	SW6010
Mercury Digestion	Completed			09/25/12	X/X	SW7470
Semi-Volatile Extraction	Completed			09/24/12	I/X	SW3520
Total Metals Digestion	Completed			09/24/12	AG	
Volatile Library Search Top 10	Completed			10/03/12	R/T	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>Volatiles</u>						
1,1,1-Trichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dibromoethane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloroethane	ND	0.6	ug/L	09/25/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
2-Hexanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
4-Methyl-2-pentanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Acetone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/25/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromodichloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromoform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Bromomethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Carbon Disulfide	ND	1.0	ug/L	09/25/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
Chlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloromethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260
Cyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Dibromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Ethylbenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl ethyl ketone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methylacetate	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylcyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylene chloride	ND	3.0	ug/L	09/25/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Toluene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/25/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	09/25/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	80		%	09/25/12	R/T	70 - 130 %
% Dibromofluoromethane	101		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	88		%	09/25/12	R/T	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/l	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	80		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	88		%	09/25/12	R/T	70 - 130 %
SVOA Library Search Top 15	Completed			09/26/12	DD	
<u>Semivolatiles</u>						
1,1-Biphenyl	ND	5.0	ug/L	09/25/12	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/25/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dichlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dimethylphenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,4-Dinitrophenol	ND	10	ug/L	09/25/12	DD	SW 8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Chloronaphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Chlorophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Methylnaphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	5.0	ug/L	09/25/12	DD	SW 8270
2-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
2-Nitrophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	5.0	ug/L	09/25/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	5.0	ug/L	09/25/12	DD	SW 8270
3-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	10	ug/L	09/25/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chloroaniline	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
4-Nitroaniline	ND	10	ug/L	09/25/12	DD	SW 8270
4-Nitrophenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acenaphthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acenaphthylene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Acetophenone	ND	5.0	ug/L	09/25/12	DD	SW 8270
Anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Atrazine	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benz(a)anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzaldehyde	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(a)pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(b)fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(ghi)perylene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzo(k)fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/25/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Caprolactam	ND	5.0	ug/L	09/25/12	DD	SW 8270
Carbazole	ND	5.0	ug/L	09/25/12	DD	SW 8270
Chrysene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dibenzofuran	ND	5.0	ug/L	09/25/12	DD	SW 8270
Diethyl phthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Dimethylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Di-n-butylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Di-n-octylphthalate	ND	5.0	ug/L	09/25/12	DD	SW 8270
Fluoranthene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Fluorene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorobutadiene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Hexachloroethane	ND	5.0	ug/L	09/25/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Isophorone	ND	5.0	ug/L	09/25/12	DD	SW 8270
Naphthalene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Nitrobenzene	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/25/12	DD	SW 8270
Pentachlorophenol	ND	10	ug/L	09/25/12	DD	SW 8270
Phenanthrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
Phenol	ND	5.0	ug/L	09/25/12	DD	SW 8270
Pyrene	ND	5.0	ug/L	09/25/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	88		%	09/25/12	DD	30 - 130 %
% 2-Fluorobiphenyl	74		%	09/25/12	DD	40 - 140 %
% 2-Fluorophenol	64		%	09/25/12	DD	30 - 130 %
% Nitrobenzene-d5	76		%	09/25/12	DD	40 - 140 %
% Phenol-d5	66		%	09/25/12	DD	30 - 130 %
% Terphenyl-d14	78		%	09/25/12	DD	40 - 140 %

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.

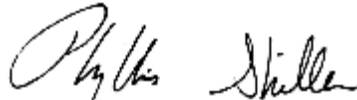
RL/PQL=Reporting/Pratical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected

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

October 10, 2012

Reviewed and Released by: Sarah Bell, Project Manager



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



Analysis Report

October 10, 2012

FOR: Attn: Mr. Frank Gehrling
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information

Matrix: GROUND WATER
Location Code: GALLI-ENG
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time
09/21/12 0:00
09/24/12 16:01

Laboratory Data

SDG ID: GBC72877
Phoenix ID: BC72880

Project ID: 145 WEST ST.
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Volatile Library Search Top 10	Completed			09/29/12	H/J	1
Volatiles						
1,1,1-Trichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dibromoethane	ND	0.5	ug/L	09/25/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,2-Dichloroethane	ND	0.6	ug/L	09/25/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
2-Hexanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
4-Methyl-2-pentanone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Acetone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/25/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromodichloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Bromoform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Bromomethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Carbon Disulfide	ND	1.0	ug/L	09/25/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
Chlorobenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloroethane	ND	5.0	ug/L	09/25/12	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Chloroform	ND	5.0	ug/L	09/25/12	R/T	SW8260
Chloromethane	ND	5.0	ug/L	09/25/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260
Cyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Dibromochloromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Ethylbenzene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/25/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl ethyl ketone	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/25/12	R/T	SW8260
Methylacetate	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylcyclohexane	ND	5.0	ug/L	09/25/12	R/T	SW8260
Methylene chloride	ND	3.0	ug/L	09/25/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Toluene	ND	5.0	ug/L	09/25/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/25/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	09/25/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.4	ug/L	09/25/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/25/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	82		%	09/25/12	R/T	70 - 130 %
% Dibromofluoromethane	97		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	85		%	09/25/12	R/T	70 - 130 %
<u>1,4-dioxane</u>						
1,4-dioxane	ND	100	ug/l	09/25/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	09/25/12	R/T	70 - 130 %
% Bromofluorobenzene	82		%	09/25/12	R/T	70 - 130 %
% Toluene-d8	85		%	09/25/12	R/T	70 - 130 %

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

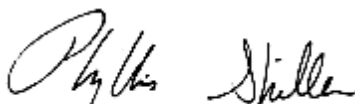
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

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

Comments:

TRIP BLANK INCLUDED

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**Phyllis Shiller, Laboratory Director****October 10, 2012****Reviewed and Released by: Sarah Bell, Project Manager**

MW101

MW104

MW103

TRIP BLANK

BLANK BC72880

MW101

CLIENT ID

MW103

Lab Name: Phoenix Environmental Labs

Client: GALLI-ENG

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBC72877

Matrix:(soil/water) WATER

Lab Sample ID: BC72879

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 0925 19.D

Level: (low/med) Low

Date Received: 09/24/12

% Moisture: not dec. 100 decanted:(Y/N) NA

Date Extracted: 09/24/12

GPC Cleanup (Y/N): N pH: NA

Date Analyzed: 9/25/2012

Conc. Extract Volume: 1000 (uL)

Dilution Factor 1

Injection Volume: 2 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/L

[illegible]



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



QA/QC Report

October 10, 2012

QA/QC Data

SDG I.D.: GBC72877

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 210015, QC Sample No: BC72878 (BC72877, BC72878, BC72879)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	112	105	6.5	97.6	103	5.4	70 - 130	20
QA/QC Batch 209992, QC Sample No: BC72917 (BC72877, BC72878, BC72879)												
Thallium - Water	BRL	<0.001	<0.002	NC	98.6	99.9	1.3	95.6	95.7	0.1	75 - 125	20
QA/QC Batch 210004, QC Sample No: BC73042 (BC72877, BC72878, BC72879)												
<u>ICP Metals - Aqueous</u>												
Aluminum	BRL	0.076	0.081	6.40	107	111	3.7	105	108	2.8	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	103	106	2.9	102	104	1.9	75 - 125	20
Arsenic	BRL	0.008	0.010	NC	103	107	3.8	104	107	2.8	75 - 125	20
Barium	BRL	0.009	0.009	NC	102	104	1.9	99.0	100	1.0	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	100	103	3.0	98.3	99.6	1.3	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	105	109	3.7	104	106	1.9	75 - 125	20
Calcium	BRL	43.3	45.3	4.50	105	108	2.8	NC	NC	NC	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	102	106	3.8	101	102	1.0	75 - 125	20
Cobalt	BRL	<0.002	<0.002	NC	105	110	4.7	104	106	1.9	75 - 125	20
Copper	BRL	<0.005	<0.005	NC	104	107	2.8	102	104	1.9	75 - 125	20
Iron	BRL	3.24	3.45	6.30	103	106	2.9	119	130	8.8	75 - 125	20 m
Lead	BRL	0.007	0.008	NC	105	110	4.7	104	106	1.9	75 - 125	20
Magnesium	BRL	1.28	1.34	4.60	104	106	1.9	97.8	104	6.1	75 - 125	20
Manganese	BRL	0.402	0.421	4.60	102	105	2.9	101	103	2.0	75 - 125	20
Nickel	BRL	0.002	0.002	NC	104	108	3.8	102	104	1.9	75 - 125	20
Potassium	BRL	2.0	2.0	0	85.7	88.1	2.8	80.9	81.0	0.1	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	99.2	104	4.7	99.3	102	2.7	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	99.5	102	2.5	98.8	100	1.2	75 - 125	20
Sodium	BRL	25.4	25.7	1.20	88.5	89.9	1.6	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	100	104	3.9	98.2	99.9	1.7	75 - 125	20
Zinc	BRL	0.008	0.007	NC	105	110	4.7	105	107	1.9	75 - 125	20

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



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QA/QC Report

October 10, 2012

QA/QC Data

SDG I.D.: GBC72877

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 209856, QC Sample No: BC71352 (BC72877, BC72878, BC72879)									
Semivolatiles - Ground Water									
1,2,4,5-Tetrachlorobenzene	ND	83	82	1.2				30 - 130	20
2,4,5-Trichlorophenol	ND	96	95	1.0				30 - 130	20
2,4,6-Trichlorophenol	ND	94	97	3.1				30 - 130	20
2,4-Dichlorophenol	ND	85	86	1.2				30 - 130	20
2,4-Dimethylphenol	ND	55	56	1.8				30 - 130	20
2,4-Dinitrophenol	ND	114	118	3.4				30 - 130	20
2,4-Dinitrotoluene	ND	91	93	2.2				30 - 130	20
2,6-Dinitrotoluene	ND	90	90	0.0				30 - 130	20
2-Chloronaphthalene	ND	83	84	1.2				30 - 130	20
2-Chlorophenol	ND	80	80	0.0				30 - 130	20
2-Methylnaphthalene	ND	86	86	0.0				30 - 130	20
2-Methylphenol (o-cresol)	ND	82	83	1.2				30 - 130	20
2-Nitroaniline	ND	129	133	3.1				30 - 130	20
2-Nitrophenol	ND	76	77	1.3				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	87	87	0.0				30 - 130	20
3,3'-Dichlorobenzidine	ND	N/A	N/A	NC				30 - 130	20
3-Nitroaniline	ND	127	128	0.8				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	115	118	2.6				30 - 130	20
4-Bromophenyl phenyl ether	ND	95	92	3.2				30 - 130	20
4-Chloro-3-methylphenol	ND	97	98	1.0				30 - 130	20
4-Chloroaniline	ND	114	119	4.3				30 - 130	20
4-Chlorophenyl phenyl ether	ND	92	92	0.0				30 - 130	20
4-Nitroaniline	ND	91	94	3.2				30 - 130	20
4-Nitrophenol	ND	99	101	2.0				30 - 130	20
Acenaphthene	ND	91	91	0.0				30 - 130	20
Acenaphthylene	ND	88	88	0.0				30 - 130	20
Acetophenone	ND	84	83	1.2				30 - 130	20
Anthracene	ND	89	87	2.3				30 - 130	20
Benz(a)anthracene	ND	94	91	3.2				30 - 130	20
Benzo(a)pyrene	ND	85	85	0.0				30 - 130	20
Benzo(b)fluoranthene	ND	91	100	9.4				30 - 130	20
Benzo(ghi)perylene	ND	86	85	1.2				30 - 130	20
Benzo(k)fluoranthene	ND	90	82	9.3				30 - 130	20
Benzyl butyl phthalate	ND	88	88	0.0				30 - 130	20
Bis(2-chloroethoxy)methane	ND	83	85	2.4				30 - 130	20
Bis(2-chloroethyl)ether	ND	81	82	1.2				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	89	91	2.2				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	95	91	4.3				30 - 130	20
Carbazole	ND	107	110	2.8				30 - 130	20
Chrysene	ND	87	92	5.6				30 - 130	20
Dibenz(a,h)anthracene	ND	92	90	2.2				30 - 130	20

QA/QC Data

SDG I.D.: GBC72877

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibenzofuran	ND	86	87	1.2				30 - 130	20
Diethyl phthalate	ND	93	95	2.1				30 - 130	20
Dimethylphthalate	ND	92	92	0.0				30 - 130	20
Di-n-butylphthalate	ND	85	85	0.0				30 - 130	20
Di-n-octylphthalate	ND	100	98	2.0				30 - 130	20
Fluoranthene	ND	81	84	3.6				30 - 130	20
Fluorene	ND	89	90	1.1				30 - 130	20
Hexachlorobenzene	ND	86	86	0.0				30 - 130	20
Hexachlorobutadiene	ND	74	74	0.0				30 - 130	20
Hexachlorocyclopentadiene	ND	104	104	0.0				30 - 130	20
Hexachloroethane	ND	78	79	1.3				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	80	78	2.5				30 - 130	20
Isophorone	ND	86	85	1.2				30 - 130	20
Naphthalene	ND	64	65	1.6				30 - 130	20
Nitrobenzene	ND	85	86	1.2				30 - 130	20
N-Nitrosodimethylamine	ND	69	74	7.0				30 - 130	20
N-Nitrosodi-n-propylamine	ND	94	95	1.1				30 - 130	20
N-Nitrosodiphenylamine	ND	100	101	1.0				30 - 130	20
Pentachlorophenol	ND	136	132	3.0				30 - 130	20
Phenanthrene	ND	90	90	0.0				30 - 130	20
Phenol	ND	80	82	2.5				30 - 130	20
Pyrene	ND	87	87	0.0				30 - 130	20
% 2,4,6-Tribromophenol	111	95	94	1.1				30 - 130	20
% 2-Fluorobiphenyl	81	78	78	0.0				40 - 140	20
% 2-Fluorophenol	77	69	70	1.4				30 - 130	20
% Nitrobenzene-d5	88	80	80	0.0				40 - 140	20
% Phenol-d5	85	77	79	2.6				30 - 130	20
% Terphenyl-d14	92	82	83	1.2				40 - 140	20

QA/QC Batch 210140, QC Sample No: BC72880 (BC72877, BC72878, BC72879, BC72880)

Volatiles - Ground Water

1,1,1-Trichloroethane	ND	92	84	9.1	85	87	2.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	116	109	6.2	109	117	7.1	70 - 130	30
1,1,2-Trichloroethane	ND	81	78	3.8	79	81	2.5	70 - 130	30
1,1-Dichloroethane	ND	90	82	9.3	86	92	6.7	70 - 130	30
1,1-Dichloroethene	ND	76	69	9.7	87	89	2.3	70 - 130	30
1,2,3-Trichlorobenzene	ND	118	116	1.7	103	110	6.6	70 - 130	30
1,2,4-Trichlorobenzene	ND	116	115	0.9	102	107	4.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	104	101	2.9	89	100	11.6	70 - 130	30
1,2-Dibromoethane	ND	81	78	3.8	80	79	1.3	70 - 130	30
1,2-Dichlorobenzene	ND	120	114	5.1	113	114	0.9	70 - 130	30
1,2-Dichloroethane	ND	98	93	5.2	90	93	3.3	70 - 130	30
1,2-Dichloropropane	ND	89	84	5.8	78	79	1.3	70 - 130	30
1,3-Dichlorobenzene	ND	122	117	4.2	113	114	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	121	116	4.2	113	114	0.9	70 - 130	30
2-Hexanone	ND	106	93	13.1	93	99	6.3	70 - 130	30
4-Methyl-2-pentanone	ND	77	74	4.0	72	77	6.7	70 - 130	30
Acetone	0.56 JS	81	76	6.4	81	89	9.4	70 - 130	30
Benzene	ND	92	85	7.9	90	91	1.1	70 - 130	30
Bromochloromethane	ND	92	87	5.6	87	91	4.5	70 - 130	30
Bromodichloromethane	ND	83	80	3.7	71	72	1.4	70 - 130	30
Bromoform	ND	98	94	4.2	90	91	1.1	70 - 130	30
Bromomethane	ND	79	72	9.3	68	79	15.0	70 - 130	30

QA/QC Data

SDG I.D.: GBC72877

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Carbon Disulfide	ND	75	68	9.8	84	88	4.7	70 - 130	30	I
Carbon tetrachloride	ND	94	89	5.5	88	86	2.3	70 - 130	30	
Chlorobenzene	ND	110	104	5.6	106	105	0.9	70 - 130	30	
Chloroethane	ND	102	93	9.2	114	118	3.4	70 - 130	30	
Chloroform	ND	91	83	9.2	84	88	4.7	70 - 130	30	
Chloromethane	ND	81	72	11.8	91	97	6.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	90	84	6.9	86	90	4.5	70 - 130	30	
cis-1,3-Dichloropropene	ND	75	71	5.5	69	70	1.4	70 - 130	30	m
Dibromochloromethane	ND	103	100	3.0	96	97	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	92	83	10.3	111	114	2.7	70 - 130	30	
Ethylbenzene	ND	108	101	6.7	103	102	1.0	70 - 130	30	
Isopropylbenzene	ND	135	125	7.7	112	115	2.6	70 - 130	30	I
m&p-Xylene	ND	110	105	4.7	106	104	1.9	70 - 130	30	
Methyl ethyl ketone	ND	82	76	7.6	87	96	9.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	93	88	5.5	85	87	2.3	70 - 130	30	
Methylene chloride	ND	75	69	8.3	76	80	5.1	70 - 130	30	I
o-Xylene	ND	55	52	5.6	53	52	1.9	70 - 130	30	I,m
Styrene	ND	56	53	5.5	53	52	1.9	70 - 130	30	I,m
Tetrachloroethene	ND	110	104	5.6	103	99	4.0	70 - 130	30	
Toluene	ND	81	76	6.4	80	78	2.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	84	76	10.0	83	86	3.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	73	70	4.2	69	71	2.9	70 - 130	30	m
Trichloroethene	ND	93	88	5.5	92	89	3.3	70 - 130	30	
Trichlorofluoromethane	ND	108	98	9.7	94	96	2.1	70 - 130	30	
Trichlorotrifluoroethane	ND	95	88	7.7	88	88	0.0	70 - 130	30	
Vinyl chloride	ND	92	83	10.3	88	92	4.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	100	99	1.0	99	101	2.0	70 - 130	30	
% Bromofluorobenzene	81	90	89	1.1	85	88	3.5	70 - 130	30	
% Dibromofluoromethane	95	98	96	2.1	98	100	2.0	70 - 130	30	
% Toluene-d8	84	86	85	1.2	87	87	0.0	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this batch.

I = This parameter is outside laboratory lcs/lcsd specified recovery limits.

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

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

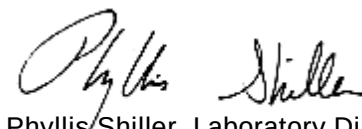
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

October 10, 2012

Sample Criteria Exceedences Report

Requested Criteria: GW

GBC72877 - GALLI-ENG

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC72877	\$8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.0006	0.0006	ug/L
BC72877	\$8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.04	0.04	ug/L
BC72877	\$8270WM_TCL	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BC72877	\$8270WM_TCL	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.5	0.5	ug/L
BC72877	\$8270WM_TCL	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC72877	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72877	\$8270WM_TCL	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72877	\$8270WM_TCL	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72877	\$8270WM_TCL	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72877	\$8270WM_TCL	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72877	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72877	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72877	\$8270WM_TCL	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72877	\$8270WM_TCL	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72877	\$8270WM_TCL	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72877	\$8270WM_TCL	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.35	0.35	ug/L
BC72877	\$8270WM_TCL	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L
BC72877	\$8270WM_TCL	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC72877	\$8270WM_TCL	Pentachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72877	\$8270WM_TCL	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72877	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72877	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L

Sample Criteria Exceedences Report

Requested Criteria: GW

GBC72877 - GALLI-ENG

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC72877	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72877	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	2.02	0.010	0.1	0.1	mg/L
BC72877	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	7.49	0.010	0.3	0.3	mg/L
BC72877	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	5.12	0.010	0.3	0.3	mg/L
BC72877	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	158	1.0	20	20	mg/L
BC72878	\$8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.0006	0.0006	ug/L
BC72878	\$8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.04	0.04	ug/L
BC72878	\$8270WM_TCL	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BC72878	\$8270WM_TCL	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.5	0.5	ug/L
BC72878	\$8270WM_TCL	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC72878	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72878	\$8270WM_TCL	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72878	\$8270WM_TCL	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72878	\$8270WM_TCL	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72878	\$8270WM_TCL	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72878	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72878	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72878	\$8270WM_TCL	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72878	\$8270WM_TCL	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72878	\$8270WM_TCL	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72878	\$8270WM_TCL	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72878	\$8270WM_TCL	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.35	0.35	ug/L
BC72878	\$8270WM_TCL	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L
BC72878	\$8270WM_TCL	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC72878	\$8270WM_TCL	Pentachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72878	\$8270WM_TCL	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L

Sample Criteria Exceedences Report

Requested Criteria: GW

GBC72877 - GALLI-ENG

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC72878	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72878	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72878	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	1.31	0.010	0.3	0.3	mg/L
BC72878	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	291	0.10	35	35	mg/L
BC72878	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	0.457	0.001	0.3	0.3	mg/L
BC72878	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	2210	10	20	20	mg/L
BC72878	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BC72879	\$8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.0006	0.0006	ug/L
BC72879	\$8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.04	0.04	ug/L
BC72879	\$8270WM_TCL	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BC72879	\$8270WM_TCL	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.5	0.5	ug/L
BC72879	\$8270WM_TCL	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC72879	\$8270WM_TCL	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72879	\$8270WM_TCL	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72879	\$8270WM_TCL	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72879	\$8270WM_TCL	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72879	\$8270WM_TCL	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72879	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72879	\$8270WM_TCL	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72879	\$8270WM_TCL	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BC72879	\$8270WM_TCL	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BC72879	\$8270WM_TCL	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72879	\$8270WM_TCL	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.35	0.35	ug/L
BC72879	\$8270WM_TCL	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L

Sample Criteria Exceedences Report

Requested Criteria: GW

GBC72877 - GALLI-ENG

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC72879	\$8270WM_TCL	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BC72879	\$8270WM_TCL	Pentachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BC72879	\$8270WM_TCL	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	2,3,4,6-tetrachlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BC72879	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	0.002	0.002	ug/L
BC72879	\$8270WM_TCL	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.002	0.002	ug/L
BC72879	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	834	0.10	35	35	mg/L
BC72879	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	7740	100	20	20	mg/L
BC72879	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.278	0.002	0.025	0.025	mg/L
BC72880	\$8260_TCLR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.0006	0.0006	ug/L
BC72880	\$8260_TCLR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.5	0.04	0.04	ug/L

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



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



NY Temperature Narration

October 10, 2012

SDG I.D.: GBC72877

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

Appendix G

Laboratory ELAP Certification

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2013
Issued April 02, 2012
Revised September 06, 2012

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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PHOENIX ENVIRONMENTAL LABS
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MANCHESTER, CT 06040

NY Lab Id No: 11301

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D. W. Methylcarbamate Pesticides

3-Hydroxy Carbofuran	EPA 531.2
Aldicarb	EPA 531.2
Aldicarb Sulfone	EPA 531.2
Aldicarb Sulfoxide	EPA 531.2
Carbaryl	EPA 531.2
Carbofuran	EPA 531.2
Methomyl	EPA 531.2
Oxamyl	EPA 531.2

Drinking Water Chlorinated Acids

2,4-D	EPA 515.1
Dalapon	EPA 515.1
Dicamba	EPA 515.1
Dinoseb	EPA 515.1
Pentachlorophenol	EPA 515.1
Picloram	EPA 515.1

Drinking Water Metals I

Arsenic, Total	EPA 200.9 Rev. 2.2
Barium, Total	EPA 200.7 Rev. 4.4
Cadmium, Total	EPA 200.7 Rev. 4.4
Chromium, Total	EPA 200.7 Rev. 4.4
Copper, Total	EPA 200.7 Rev. 4.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.9 Rev. 2.2
Manganese, Total	EPA 200.7 Rev. 4.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.9 Rev. 2.2
Silver, Total	EPA 200.7 Rev. 4.4
Zinc, Total	EPA 200.7 Rev. 4.4

Disinfection By-products

Bromochloroacetic acid	EPA 552.2
Dibromoacetic acid	EPA 552.2
Dichloroacetic acid	EPA 552.2
Monobromoacetic acid	EPA 552.2
Monochloroacetic acid	EPA 552.2
Trichloroacetic acid	EPA 552.2

Drinking Water Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 18-21 9222B(97)/40CFR141.21(F)6i SM 18-21 9223B (97) (Colilert)
E. coli (Enumeration)	SM 18-21 9222B(97)/40CFR141.21(F)6i SM 18-21 9223B (97) (Colilert)
Enterococci	EPA 1600
Standard Plate Count	SM 18-21 9215B

Drinking Water Chlorinated Acids

2,4,5-TP (Silvex)	EPA 515.1

Drinking Water Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
Antimony, Total	EPA 200.9 Rev. 2.2
Beryllium, Total	EPA 200.7 Rev. 4.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
Nickel, Total	EPA 200.7 Rev. 4.4

Serial No.: 47417

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Drinking Water Metals II

Thallium, Total	EPA 200.9 Rev. 2.2
Vanadium, Total	EPA 200.7 Rev. 4.4

Drinking Water Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Drinking Water Miscellaneous

Benzo(a)pyrene	EPA 525.2
Bis(2-ethylhexyl) phthalate	EPA 525.2
DI (2-ethylhexyl) adipate	EPA 525.2
Hexachlorobenzene	EPA 508
Hexachlorocyclopentadiene	EPA 508
Odor	EPA 140.1
Organic Carbon, Dissolved	SM 18-21 5310B (00)
Organic Carbon, Total	SM 18-21 5310B (00)
	SM 18-21 5310C (00)
Surfactant (MBAS)	SM 18-21 5540C (00)
Turbidity	SM 18-21 2130 B (01)
UV 254	SM 19-21 5910B

Drinking Water Non-Metals

Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4

Drinking Water Non-Metals

Chloride	EPA 300.0 Rev. 2.1
	SM 18-21 4500-Cl- E (97)
Color	SM 18-21 2120B (01)
Cyanide	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 18-21 4500-F C (97)
Nitrate (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	SM 18-21 4500-P E
	SM 18-21 4500-P F
Solids, Total Dissolved	SM 18-21 2540C (97)
Specific Conductance	SM 18-21 2510B (97)
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1
	SM 18-21 4500-SO ₄ D (97)

Drinking Water Organohalide Pesticides

Alachlor	EPA 507
Aldrin	EPA 508
Atrazine	EPA 507
Butachlor	EPA 507
Chlordane Total	EPA 508
Dieldrin	EPA 508
Endrin	EPA 508
Heptachlor	EPA 508

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Drinking Water Organohalide Pesticides

Heptachlor epoxide	EPA 508
Lindane	EPA 508
Methoxychlor	EPA 508
Metolachlor	EPA 507
Propachlor	EPA 508
Simazine	EPA 507
Toxaphene	EPA 508

Drinking Water Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Fuel Additives

Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Microextractibles

1,2-Dibromo-3-chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1

Polychlorinated Biphenyls

PCB Screen	EPA 508

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2

Volatile Aromatics

1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2

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Volatile Halocarbons

1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2

Volatile Halocarbons

Vinyl chloride	EPA 524.2

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Acrylates

Acrolein (Propenal)	EPA 624
	EPA 8260B
Acrylonitrile	EPA 624
	EPA 8260B

Amines

1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Pyridine	EPA 625
	EPA 8270D

Bacteriology

Coliform, Fecal	SM 18-21 9222D (97)
Coliform, Total	SM 18-21 9222B (97)
E. coli (Enumeration)	Colilert
	SM 18-21 9223B (97) (Colilert)
	SM 19-20 9222G
Enterococci	EPA 1600
Standard Plate Count	SM 18-21 9215B

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D

Benzidines

Benzidine	EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 608
	EPA 8081B
4,4'-DDE	EPA 608
	EPA 8081B
4,4'-DDT	EPA 608
	EPA 8081B
Aldrin	EPA 608
	EPA 8081B
alpha-BHC	EPA 608
	EPA 8081B
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 608
	EPA 8081B
Chlordane Total	EPA 608
	EPA 8081B
delta-BHC	EPA 608
	EPA 8081B
Dieldrin	EPA 608
	EPA 8081B
Endosulfan I	EPA 608
	EPA 8081B
Endosulfan II	EPA 608
	EPA 8081B

Serial No.: 47503

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Chlorinated Hydrocarbon Pesticides

Endosulfan sulfate	EPA 608 EPA 8081B
Endrin	EPA 608 EPA 8081B
Endrin aldehyde	EPA 608 EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081A EPA 8081B
Heptachlor	EPA 608 EPA 8081B
Heptachlor epoxide	EPA 608 EPA 8081B
Lindane	EPA 608 EPA 8081B
Methoxychlor	EPA 608 EPA 8081B
PCNB	EPA 8270D
Toxaphene	EPA 608 EPA 8081B

Chlorinated Hydrocarbons

2-Chloronaphthalene	EPA 625 EPA 8270D
Hexachlorobenzene	EPA 625 EPA 8270D
Hexachlorobutadiene	EPA 625 EPA 8270D
Hexachlorocyclopentadiene	EPA 625 EPA 8270D
Hexachloroethane	EPA 625 EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 18-21 5210B (01)
Carbonaceous BOD	SM 18-21 5210B (01)
Chemical Oxygen Demand	SM 18-21 5220D (97)

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260B
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625 EPA 8270D

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Fuel Oxygenates

Di-isopropyl ether	EPA 8260B
Ethanol	EPA 8015C
	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
tert-amyl alcohol	EPA 8260B
tert-amyl methyl ether (TAME)	EPA 8260B
tert-butyl alcohol	EPA 8260B
tert-butyl ethyl ether (ETBE)	EPA 8260B

Haloethers

4-Bromophenylphenyl ether	EPA 625
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270D
Bis (2-chloroisopropyl) ether	EPA 625
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 625
	EPA 8270D

Low Level Polynuclear Aromatics

Benzo(b)fluoranthene Low Level	EPA 8270D SIM
Benzo(g,h,i)perylene Low Level	EPA 8270D SIM
Benzo(k)fluoranthene Low Level	EPA 8270D SIM
Chrysene Low Level	EPA 8270D SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270D SIM
Fluoranthene Low Level	EPA 8270D SIM
Fluorene Low Level	EPA 8270D SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D SIM
Naphthalene Low Level	EPA 8270D SIM
Phenanthrene Low Level	EPA 8270D SIM
Pyrene Low Level	EPA 8270D SIM

Mineral

Acidity	SM 18-21 2310B.4a (97)
Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
	SM 18-21 4500-Cl- E (97)
Hardness, Total	EPA 200.7 Rev. 4.4
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1
	SM 18-21 4500-SO ₄ D (97)

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 8270D SIM
Acenaphthylene Low Level	EPA 8270D SIM
Anthracene Low Level	EPA 8270D SIM
Benzo(a)anthracene Low Level	EPA 8270D SIM
Benzo(a)pyrene Low Level	EPA 8270D SIM

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 625
	EPA 8270D
2,6-Dinitrotoluene	EPA 625
	EPA 8270D

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Nitroaromatics and Isophorone

Isophorone	EPA 625
	EPA 8270D
Nitrobenzene	EPA 625
	EPA 8270D

Nitrosoamines

N-Nitrosodimethylamine	EPA 625
	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270D
N-Nitrosodiphenylamine	EPA 625
	EPA 8270D

Nutrient

Ammonia (as N)	EPA 350.1 Rev. 2.0
Kjeldahl Nitrogen, Total	EPA 351.1 Rev. 1978
Nitrate (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	SM 18-21 4500-P E
	SM 18-21 4500-P F
Phosphorus, Total	SM 18-21 4500-P E

Organophosphate Pesticides

Azinphos methyl	EPA 8141B
Diazinon	EPA 8141B
Disulfoton	EPA 8141B
Famphur	EPA 8141B
Malathion	EPA 8141B
Parathion methyl	EPA 1978 p.25
	EPA 8141A
Simazine	EPA 8141B

Phthalate Esters

Benzyl butyl phthalate	EPA 625
	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 625
	EPA 8270D
Diethyl phthalate	EPA 625
	EPA 8270D
Dimethyl phthalate	EPA 625
	EPA 8270D
Di-n-butyl phthalate	EPA 625
	EPA 8270D
Di-n-octyl phthalate	EPA 625
	EPA 8270D

Polychlorinated Biphenyls

PCB-1016	EPA 608
	EPA 8082A
PCB-1221	EPA 608

Organophosphate Pesticides

Atrazine	EPA 8141B
	EPA 8270D

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WADSWORTH CENTER



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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB-1221	EPA 8082A
PCB-1232	EPA 608
	EPA 8082A
PCB-1242	EPA 608
	EPA 8082A
PCB-1248	EPA 608
	EPA 8082A
PCB-1254	EPA 608
	EPA 8082A
PCB-1260	EPA 608
	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A

Polynuclear Aromatics

Benzo(b)fluoranthene	EPA 8270D
Benzo(ghi)perylene	EPA 625
	EPA 8270D
Benzo(k)fluoranthene	EPA 625
	EPA 8270D
Chrysene	EPA 625
	EPA 8270D
Dibenzo(a,h)anthracene	EPA 625
	EPA 8270D
Fluoranthene	EPA 625
	EPA 8270D
Fluorene	EPA 625
	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625

Polynuclear Aromatics

Acenaphthene	EPA 625
	EPA 8270D
Acenaphthylene	EPA 625
	EPA 8270D
Anthracene	EPA 625
	EPA 8270D
Benzo(a)anthracene	EPA 625
	EPA 8270D
Benzo(a)pyrene	EPA 625
	EPA 8270D
Benzo(b)fluoranthene	EPA 625

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 625
	EPA 8270D

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Priority Pollutant Phenols

2,4,6-Trichlorophenol	EPA 625 EPA 8270D
2,4-Dichlorophenol	EPA 625 EPA 8270D
2,4-Dimethylphenol	EPA 625 EPA 8270D
2,4-Dinitrophenol	EPA 625 EPA 8270D
2-Chlorophenol	EPA 625 EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625 EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 625 EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 625 EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 625 EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625 EPA 8270D
Phenol	EPA 625

Priority Pollutant Phenols

Phenol	EPA 8270D
Residue	
Settleable Solids	SM 18-21 2540 F (97)
Solids, Total	SM 18-21 2540B (97)
Solids, Total Dissolved	SM 18-21 2540C (97)
Solids, Total Suspended	SM 18-21 2540D (97)

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260B
1,2,4-Trimethylbenzene	EPA 8260B
1,2-Dichlorobenzene	EPA 624 EPA 8260B
1,3,5-Trimethylbenzene	EPA 8260B

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Volatile Aromatics

1,3-Dichlorobenzene	EPA 624
	EPA 8260B
1,4-Dichlorobenzene	EPA 624
	EPA 8260B
2-Chlorotoluene	EPA 8260B
4-Chlorotoluene	EPA 8260B
Benzene	EPA 624
	EPA 8260B
Bromobenzene	EPA 8260B
Chlorobenzene	EPA 624
	EPA 8260B
Ethyl benzene	EPA 624
	EPA 8260B
Isopropylbenzene	EPA 8260B
Naphthalene, Volatile	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B
sec-Butylbenzene	EPA 8260B
Styrene	EPA 624
	EPA 8260B
tert-Butylbenzene	EPA 8260B
Toluene	EPA 624
	EPA 8260B
Total Xylenes	EPA 624

Volatile Aromatics

Total Xylenes	EPA 8260B

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 624
	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 624
	EPA 8260B
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 624
	EPA 8260B
1,1-Dichloroethane	EPA 624
	EPA 8260B
1,1-Dichloroethene	EPA 624
	EPA 8260B
1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8011
	EPA 8260B
1,2-Dibromoethane	EPA 8011
	EPA 8260B
1,2-Dichloroethane	EPA 624
	EPA 8260B
1,2-Dichloropropane	EPA 624
	EPA 8260B
1,3-Dichloropropane	EPA 8260B

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Volatile Halocarbons

2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 624
	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 624
	EPA 8260B
Bromoform	EPA 624
	EPA 8260B
Bromomethane	EPA 624
	EPA 8260B
Carbon tetrachloride	EPA 624
	EPA 8260B
Chloroethane	EPA 624
	EPA 8260B
Chloroform	EPA 624
	EPA 8260B
Chloromethane	EPA 624
	EPA 8260B
cis-1,2-Dichloroethene	EPA 624
	EPA 8260B
cis-1,3-Dichloropropene	EPA 624
	EPA 8260B
Dibromochloromethane	EPA 624
	EPA 8260B
Dibromomethane	EPA 8260B

Volatile Halocarbons

Dichlorodifluoromethane	EPA 624
	EPA 8260B
Hexachlorobutadiene, Volatile	EPA 8260B
Methyl iodide	EPA 8260B
Methylene chloride	EPA 624
	EPA 8260B
Tetrachloroethene	EPA 624
	EPA 8260B
trans-1,2-Dichloroethene	EPA 624
	EPA 8260B
trans-1,3-Dichloropropene	EPA 624
	EPA 8260B
trans-1,4-Dichloro-2-butene	EPA 8260B
Trichloroethene	EPA 624
	EPA 8260B
Trichlorofluoromethane	EPA 624
	EPA 8260B
Vinyl chloride	EPA 624
	EPA 8260B

Volatiles Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B

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Volatiles Organics

Carbon Disulfide	EPA 8260B
Cyclohexane	EPA 8260B
Isobutyl alcohol	EPA 8015C
Methyl acetate	EPA 8260B
Methyl cyclohexane	EPA 8260B
Vinyl acetate	EPA 8260B

Wastewater Metals I

Magnesium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Potassium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
	EPA 7010
	SM 18-19, 21 3113B (99 & 04)
Sodium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Strontium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C

Wastewater Metals I

Barium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
	EPA 7010
	SM 18-19, 21 3113B (99 & 04)
Calcium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Iron, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Lead, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
	EPA 7010
	SM 18-19, 21 3113B (99 & 04)

Wastewater Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Antimony, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
	EPA 7010
	SM 18-19, 21 3113B (99 & 04)
Arsenic, Total	EPA 200.7 Rev. 4.4
	EPA 6010C

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All approved analytes are listed below:*

Wastewater Metals II

Arsenic, Total	EPA 7010 SM 18-19, 21 3113B (99 & 04)
Beryllium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Chromium VI	EPA 7196A SM 18-19 3500-Cr D
Mercury, Total	EPA 245.1 Rev. 3.0 EPA 7470A
Selenium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 7010 SM 18-19, 21 3113B (99 & 04)
Vanadium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Zinc, Total	EPA 200.7 Rev. 4.4 EPA 6010C

Wastewater Metals III

Thallium, Total	EPA 7010 SM 18-19, 21 3113B (99 & 04)
Tin, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Titanium, Total	EPA 200.7 Rev. 4.4 EPA 6010C

Wastewater Miscellaneous

Boron, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Bromide	EPA 300.0 Rev. 2.1
Color	SM 18-21 2120B (01)
Cyanide, Total	EPA 335.4 Rev. 1.0 EPA 9012B SM 18-21 4500-CN G (99)
Formaldehyde	EPA 8315
Oil and Grease Total Recoverable (HEM)	EPA 1664A
Organic Carbon, Total	SM 18-21 5310C (00)
Phenols	EPA 420.4 Rev. 1.0
Specific Conductance	SM 18-21 2510B (97)
Sulfide (as S)	SM 18-21 4500-S D (00)
Surfactant (MBAS)	SM 18-21 5540C (00)
Turbidity	SM 18-21 2130 B (01)

Wastewater Metals III

Cobalt, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Gold, Total	EPA 200.7 Rev. 4.4
Molybdenum, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Thallium, Total	EPA 200.7 Rev. 4.4 EPA 200.9 Rev. 2.2 EPA 6010C

Sample Preparation Methods

EPA 3005A
EPA 3010A

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Sample Preparation Methods

EPA 3510C
EPA 3520C
EPA 5030B
EPA 9010C
SM 18-20 4500-CN C
SM 18-21 4500-NH3 B (97)
SM 18-21 4500-P b.5

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260B
Acrylonitrile	EPA 8260B

Amines

1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
Benzidine	EPA 8270D

Characteristic Testing

Corrosivity	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010A
Reactivity	SW-846 Ch7 Sec. 7.3
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B

Chlorinated Hydrocarbon Pesticides

Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
Simazine	EPA 8141B
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D

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Chlorinated Hydrocarbons

2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A
MCPA	EPA 8151A
MCPP	EPA 8151A
Pentachlorophenol	EPA 8151A

Haloethers

4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis (2-chloroisopropyl) ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D SIM
Acenaphthylene Low Level	EPA 8270D SIM
Anthracene Low Level	EPA 8270D SIM
Benzo(a)anthracene Low Level	EPA 8270D SIM
Benzo(a)pyrene Low Level	EPA 8270D SIM
Benzo(b)fluoranthene Low Level	EPA 8270D SIM
Benzo(g,h,i)perylene Low Level	EPA 8270D SIM
Benzo(k)fluoranthene Low Level	EPA 8270D SIM
Chrysene Low Level	EPA 8270D SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270D SIM
Fluoranthene Low Level	EPA 8270D SIM
Fluorene Low Level	EPA 8270D SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D SIM
Naphthalene Low Level	EPA 8270D SIM
Phenanthrene Low Level	EPA 8270D SIM
Pyrene Low Level	EPA 8270D SIM

Metals I

Barium, Total	EPA 6010C
Cadmium, Total	EPA 6010C
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
Copper, Total	EPA 6010C
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
Magnesium, Total	EPA 6010C

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Metals I

Manganese, Total	EPA 6010C
Nickel, Total	EPA 6010C
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
Sodium, Total	EPA 6010C
Strontium, Total	EPA 6010C

Metals II

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
Arsenic, Total	EPA 6010C
Beryllium, Total	EPA 6010C
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
Vanadium, Total	EPA 6010C
Zinc, Total	EPA 6010C

Metals III

Cobalt, Total	EPA 6010C
Molybdenum, Total	EPA 6010C
Thallium, Total	EPA 6010C
Tin, Total	EPA 6010C
Titanium, Total	EPA 6010C

Minerals

Chloride	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C
Cyanide, Total	EPA 9012B
Formaldehyde	EPA 8315
Organic Carbon, Total	EPA 9060A Lloyd Kahn Method
Phenols	EPA 9065 EPA 9066
Specific Conductance	EPA 9050A

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D

Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

Organophosphate Pesticides

Azinphos ethyl	EPA 8141A
Azinphos methyl	EPA 8141B

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WADSWORTH CENTER



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Organophosphate Pesticides

Diazinon	EPA 8141B
Disulfoton	EPA 8141B
Famphur	EPA 8141B
Malathion	EPA 8141B

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
Gasoline Range Organics	EPA 8015C

Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

Polychlorinated Biphenyls

PCB-1016	EPA 8082A
PCB-1221	EPA 8082A
PCB-1232	EPA 8082A
PCB-1242	EPA 8082A
PCB-1248	EPA 8082A
PCB-1254	EPA 8082A
PCB-1260	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(ghi)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D

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Priority Pollutant Phenols

2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260B
1,2,4-Trimethylbenzene	EPA 8260B
1,2-Dichlorobenzene	EPA 8260B
1,3,5-Trimethylbenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 8260B

Volatile Aromatics

1,4-Dichlorobenzene	EPA 8260B
2-Chlorotoluene	EPA 8260B
4-Chlorotoluene	EPA 8260B
Benzene	EPA 8260B
Bromobenzene	EPA 8260B
Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 8260B
Isopropylbenzene	EPA 8260B
Naphthalene, Volatile	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B
sec-Butylbenzene	EPA 8260B
Styrene	EPA 8260B
tert-Butylbenzene	EPA 8260B
Toluene	EPA 8260B
Total Xylenes	EPA 8260B

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260B

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B

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Volatile Halocarbons

1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 8260B
Bromoform	EPA 8260B
Bromomethane	EPA 8260B
Carbon tetrachloride	EPA 8260B
Chloroethane	EPA 8260B
Chloroform	EPA 8260B
Chloromethane	EPA 8260B
cis-1,2-Dichloroethene	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dibromomethane	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B

Volatile Halocarbons

trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
trans-1,4-Dichloro-2-butene	EPA 8260B
Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

Volatile Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Carbon Disulfide	EPA 8260B
Cyclohexane	EPA 8260B
Ethylene Glycol	EPA 8015B
Isobutyl alcohol	EPA 8015B
Methyl acetate	EPA 8260B
Methyl cyclohexane	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
tert-butyl alcohol	EPA 8260B
Vinyl acetate	EPA 8260B

Sample Preparation Methods

EPA 3050B
EPA 3060A
EPA 3540C

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Sample Preparation Methods

EPA 3545
EPA 3545A
EPA 3550B
EPA 3580
EPA 5021A
EPA 5035A-H
EPA 5035A-L
EPA 9010C
EPA 9030B

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Acrylates		Purgeable Aromatics	
Acrylonitrile	EPA TO-15	1,3,5-Trimethylbenzene	EPA TO-14A
Methyl methacrylate	EPA TO-15		EPA TO-15
Chlorinated Hydrocarbons		1,3-Dichlorobenzene	EPA TO-14A
1,2,4-Trichlorobenzene	EPA TO-14A		EPA TO-15
	EPA TO-15	1,4-Dichlorobenzene	EPA TO-14A
Hexachlorobutadiene	EPA TO-14A		EPA TO-15
	EPA TO-15	2-Chlorotoluene	EPA TO-15
Hexachloroethane	EPA TO-14A	Benzene	EPA TO-14A
	EPA TO-15		EPA TO-15
Polychlorinated Biphenyls		Chlorobenzene	EPA TO-14A
			EPA TO-15
PCB-1016	EPA TO-10A	Ethyl benzene	EPA TO-14A
PCB-1221	EPA TO-10A		EPA TO-15
PCB-1232	EPA TO-10A	Isopropylbenzene	EPA TO-15
PCB-1242	EPA TO-10A	m/p-Xylenes	EPA TO-15
PCB-1248	EPA TO-10A	o-Xylene	EPA TO-15
PCB-1254	EPA TO-10A	Styrene	EPA TO-14A
PCB-1260	EPA TO-10A		EPA TO-15
PCB-1262	EPA TO-10A	Toluene	EPA TO-14A
PCB-1268	EPA TO-10A		EPA TO-15
Purgeable Aromatics		Total Xylenes	EPA TO-14A
1,2,4-Trimethylbenzene	EPA TO-14A		EPA TO-15
	EPA TO-15	Purgeable Halocarbons	
1,2-Dichlorobenzene	EPA TO-14A	1,1,1-Trichloroethane	EPA TO-14A
	EPA TO-15		EPA TO-15

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS

All approved analytes are listed below

Purgeable Halocarbons

1,1,2,2-Tetrachloroethane	EPA TO-14A
	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-14A
	EPA TO-15
1,1,2-Trichloroethane	EPA TO-14A
	EPA TO-15
1,1-Dichloroethane	EPA TO-14A
	EPA TO-15
1,1-Dichloroethene	EPA TO-14A
	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-14A
	EPA TO-15
1,2-Dibromoethane	EPA TO-14A
	EPA TO-15
1,2-Dichloroethane	EPA TO-14A
	EPA TO-15
1,2-Dichloropropane	EPA TO-14A
	EPA TO-15
Bromodichloromethane	EPA TO-14A
	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-14A
	EPA TO-15
Carbon tetrachloride	EPA TO-14A
	EPA TO-15

Purgeable Halocarbons

Chloroethane	EPA TO-14A
	EPA TO-15
Chloroform	EPA TO-14A
	EPA TO-15
Chloromethane	EPA TO-14A
	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-14A
	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-14A
	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-14A
	EPA TO-15
Methylene chloride	EPA TO-14A
	EPA TO-15
Tetrachloroethene	EPA TO-14A
	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-14A
	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-14A
	EPA TO-15
Trichloroethene	EPA TO-14A
	EPA TO-15
Trichlorofluoromethane	EPA TO-14A
	EPA TO-15

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Purgeable Halocarbons

Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-14A
	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-14A
	EPA TO-15

Volatile Organics

1,2-Dichlorotetrafluoroethane	EPA TO-14A
	EPA TO-15
1,3-Butadiene	EPA TO-14A
	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Acetone	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
tert-butyl alcohol	EPA TO-15

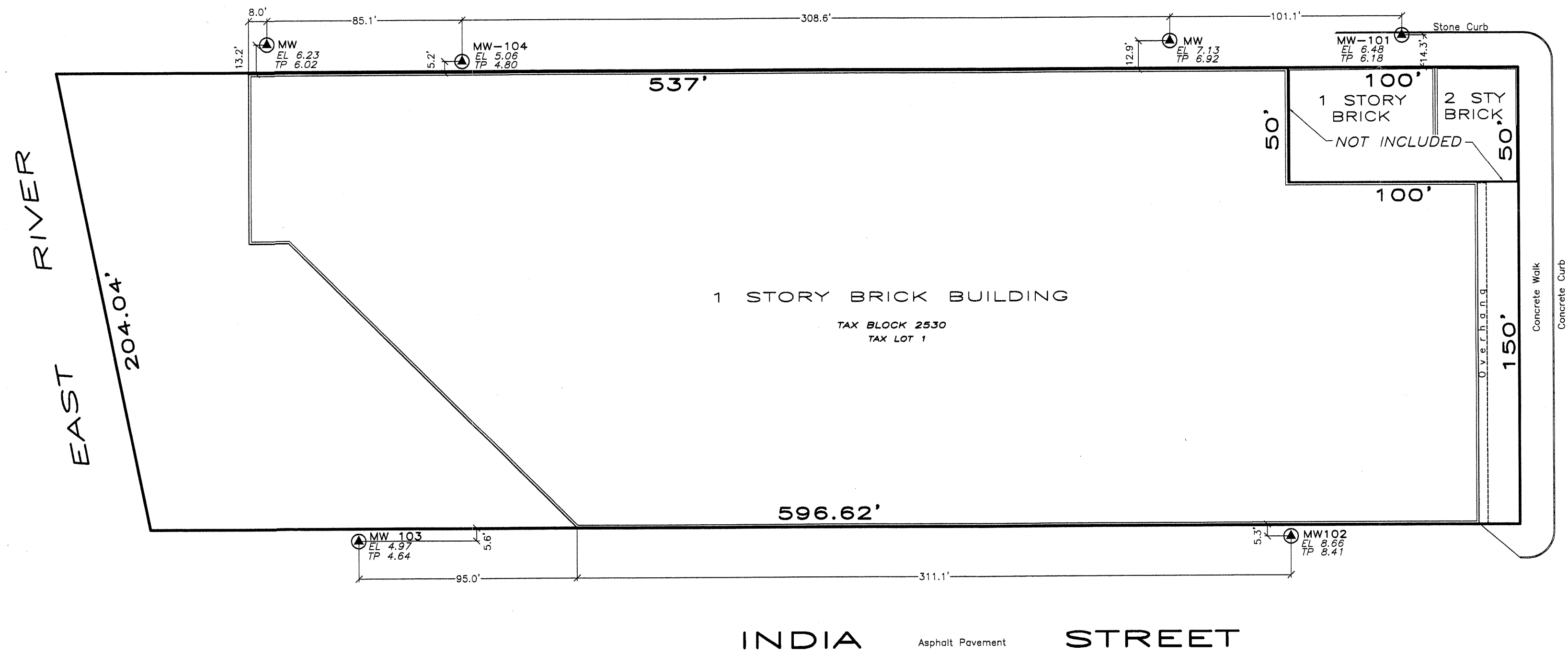
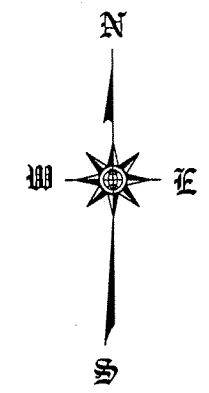
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Appendix H

Monitoring Well Survey



BROOKLYN HIGHWAY DATUM 2.56	↓
BROOKLYN SEWER DATUM 1.72	0.84' ↓
MEAN SEA LEVEL 0.00	↑

LEGEND
① MONITORING WELL
TP TOP OF PIPE ELEVATION

NOTE:
1. ELEVATIONS SHOWN HEREON REFER TO THE BOROUGH OF BROOKLYN HIGHWAY DEPARTMENT DATUM WHICH IS 2.56 FEET ABOVE MEAN SEA LEVEL DATUM.
2. THIS SURVEY IS NOT A TITLE SURVEY AND IS NOT TO BE USED FOR TITLE PURPOSES. ALL PHYSICAL FACTS ARE NOT SHOWN.

SURVEY NO. 64485				64485001.DWG 64485001.CRD
REV	DATE	DESCRIPTION		ck
—	10-26-12	MONITORING WELL LOCATION SURVEY		

COUNTY: KINGS
TAX BLOCK 2530
TAX LOT 1
SCALE: 1" = 20'
LAND BLOCK NO.
© ALL RIGHTS RESERVED 2012
DRAWN: O.A.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW
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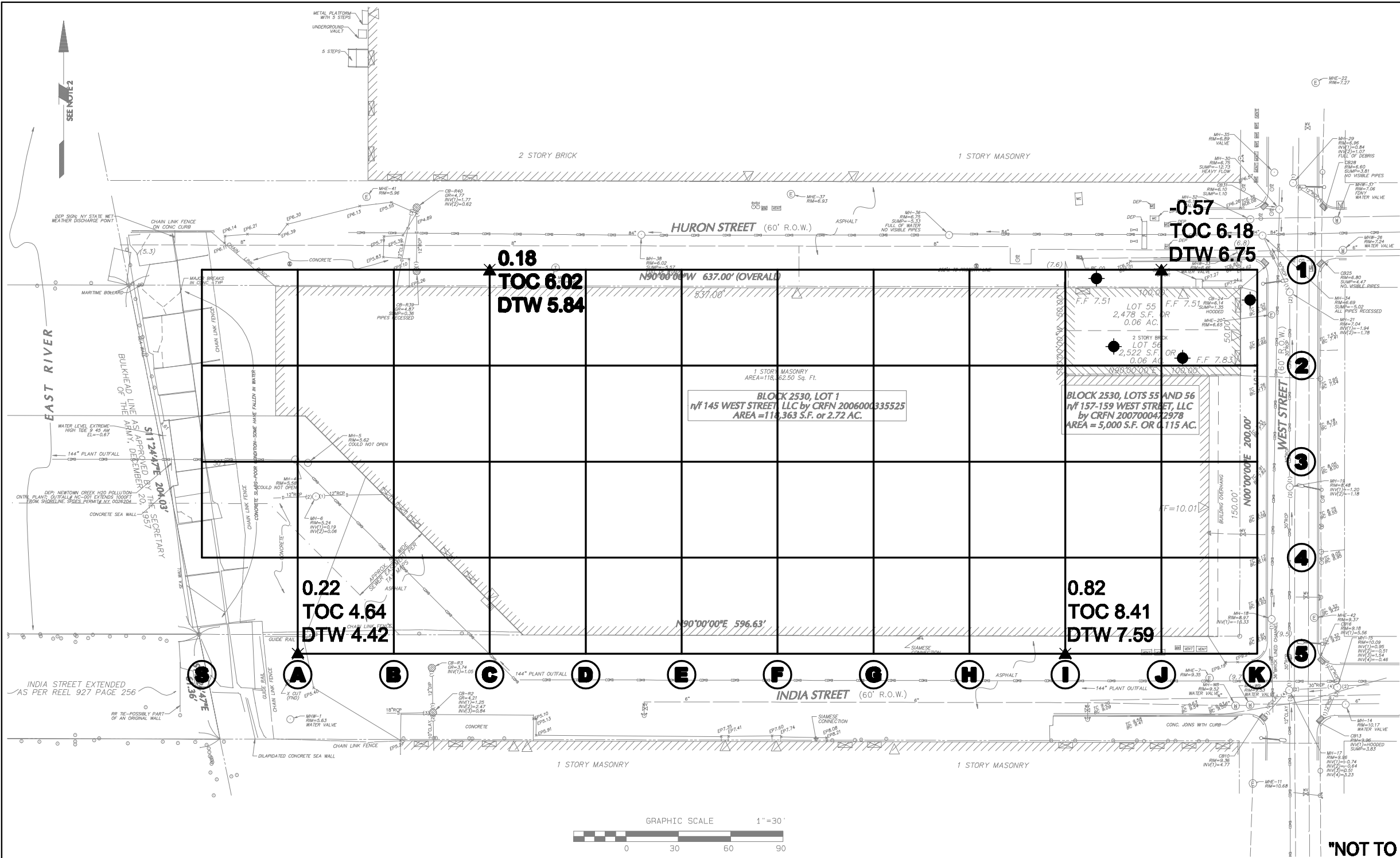


MONTROSE
SURVEYING CO., LLP.
CITY & LAND SURVEYORS
116 20 METROPOLITAN AVE • RICHMOND HILL NY 11418-1090 • (718) 849-0600
SAIED JALILYAND

ESTABLISHED 1876 * SUCCESSOR TO:
B.G. MEINIKHEIM C.S.*C.U. POWELL C.E.,C.S.*L.C.L. SMITH C.S.*NATHAN CAMPBELL C.E.,C.S.*A.U. WHITSON C.E.,C.S.*
WILLIAM L. SAVACOL C.E.,L.S.,C.S.*A.U. WHITSON INC. C.E.,C.S.*G. WEBER L.S.,C.S.*C. STIDOLPH R.A.,L.S.*WHITSON &
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Appendix I

Groundwater Flow Direction Map



LEGEND			
	HYDRANT		STREET LIGHT
	SIGNAL POLE		MANHOLE
	WATER VALVE		GAS VALVE
	UNKNOWN VALVE		CATCH BASIN
	METAL COVER		ELECTRIC BOX
	DOOR		DOUBLE DOOR
	GARAGE DOOR		PARKING METER
	MONITORING WELL		SPOT ELEVATION
	CLEAN OUT		TREE
	BENCH MARK		SIGN
	POLE		BOLLARD
	STORM DRAIN		SANITARY
	GAS		WATER
	ELECTRIC		FENCE (TYPE AS NOTED)
	OVERHEAD WIRE		GUIDE RAIL (TYPE AS NOTED)
	TELEPHONE		TREE LINE
	REFERENCED UTILITY LINE (TYPE AS NOTED)		LEGAL GRADE (TYPICAL)
	BORING LOCATION (LANGAN 12/08)		BORING & MONITORING WELL LOCATION (LANGAN 12/08)
	NEW MONITORING WELL AND BORING LOCATION		NEW TEST BORING LOCATION
	NEW TEST PIT LOCATION		ENDPOINT SAMPLE LOCATION

"NOT TO BE USED FOR CONSTRUCTION"

NOTES

1. BASE SURVEY PERFORMED BY LANGAN, APRIL 2008.
2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO AN ARBITRARY SYSTEM.
3. ELEVATIONS SHOWN ARE REFERENCED TO BROOKLYN BOROUGH DATUM.
4. NO BORINGS OR SAMPLING TO TAKE PLACE IN DEP EASEMENT OR IN INDIA STREET WITHOUT CONSENT OF DEP.
5. DEP TO BE GIVEN MINIMUM ONE WEEK NOTICE PRIOR TO FIELD WORK.
6. OUTFALL WILL BE MONITORED FOR VIBRATION DURING FIELD WORK.
7. SOUTHERN LINE OF SAMPLES MAY BE MOVED INSIDE BUILDING IF DEP HAS CONCERNS ABOUT THEIR 12' OUTFALL IN INDIA STREET.

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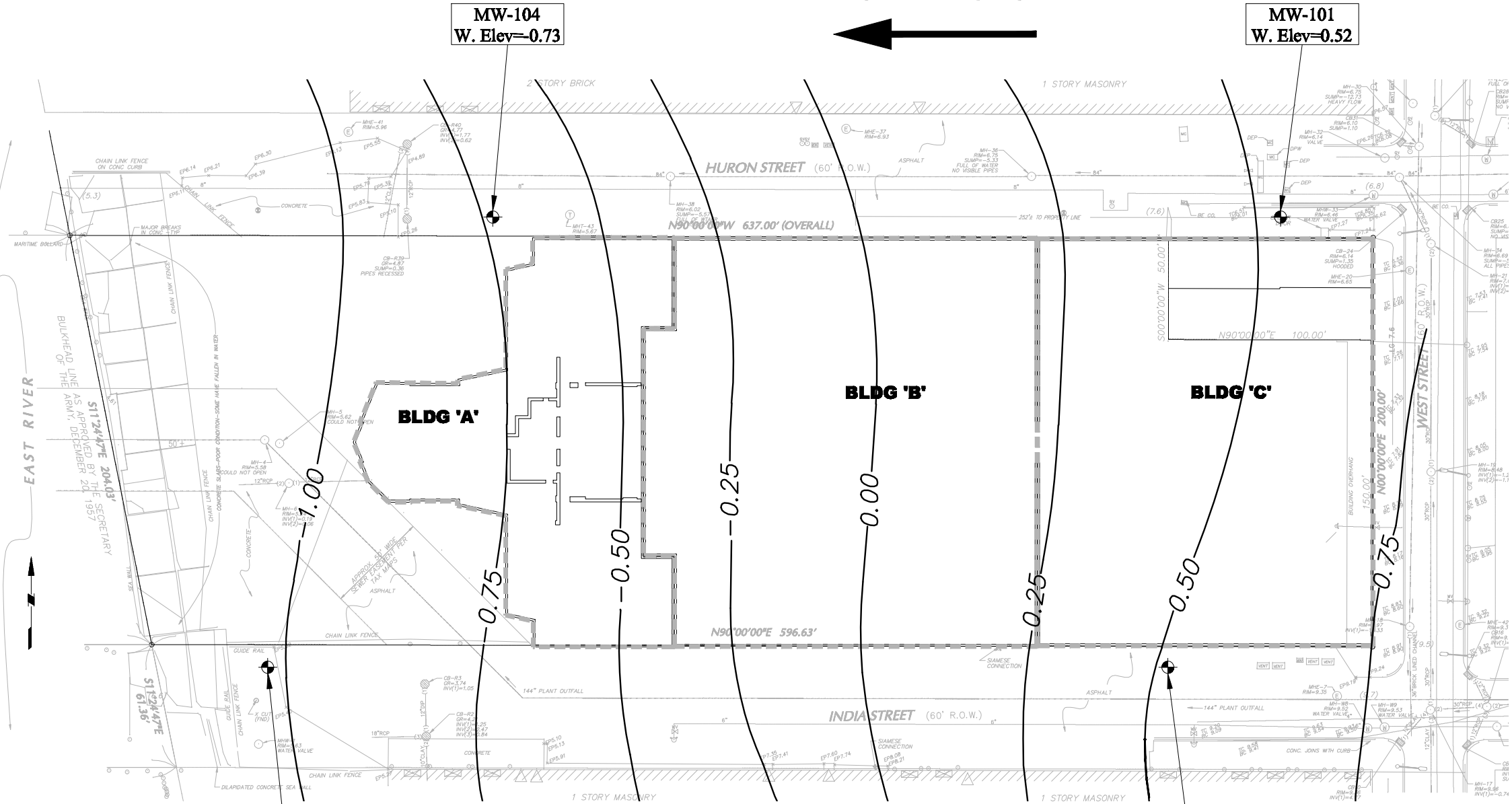
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	GROUNDWATER ELEVATION PLAN	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



KEY MAP

GROUND WATER
FLOW DIRECTION



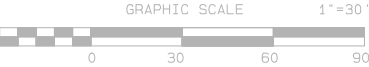
GROUNDWATER ELEVATIONS TAKEN ON 1/14/2013

"NOT TO BE USED FOR CONSTRUCTION"

REV.	DATE	DESCRIPTION	BY
JOB NO.	08/15-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	GROUNDWATER FLOW MAP	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	FIGURE 4

LEGEND

W. Elev = GROUNDWATER ELEVATION
(IN BROOKLYN HIGHWAY DEPT. DATUM)
MONITORING WELL LOCATIONS



NOTES

1. BASE SURVEY PERFORMED BY LANGAN, APRIL 2008.
2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO AN ARBITRARY SYSTEM.
3. ELEVATIONS SHOWN ARE REFERENCED TO BROOKLYN BOROUGH DATUM.
4. NO BORINGS OR SAMPLING TO TAKE PLACE IN DEP EASEMENT OR IN INDIA STREET WITHOUT CONSENT OF DEP.

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Appendix J

Spill Record



**NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION**

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 2

Spill Number: 1202875

Spill Date/Time

Spill Date: 06/22/2012 **Spill Time:** 02:32:00 PM

Call Received Date: 06/22/2012 **Call Received Time:** 02:32:00 PM

Location

Spill Name: HUXLEY ENVELOPE

Address: 145 WEST STREET

City: BROOKLYN **County:** KINGS

Spill Description

Material Spilled **Amount Spilled** **Resource Affected**

#2 Fuel Oil UNKNOWN Soil , Groundwater

Cause: Unknown

Source: Commercial/Industrial

Waterbody:

Record Close

Date Spill Closed: Not closed

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

[Refine Current Search](#)

Appendix K

Data Usability Summary Report

Data Usability Summary Report

**145 West Street Site
New York, New York**

**Samples Collected
May – September 2012**

January 2013

Data Usability Summary Report

**Samples Collected
May – September 2012**

**145 West Street Site
New York, New York**

Prepared By:

**EnviroAnalytics
Data Management and Validation Service
2638 Sunset Avenue
Utica, New York 13502**

EXECUTIVE SUMMARY

This report addresses data quality for soil and water samples collected at the 145 West Street site located in New York, New York. The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), pesticides/polychlorinated biphenyls (Pest/PCBs), herbicides, and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Galli Engineering, P.C. of Melville, New York. Analytical services were provided by Phoenix Environmental Laboratories, Inc. located in Manchester, Connecticut.

The inorganics analyses data have been determined to be usable for qualitative and quantitative purposes with the exception of Magnesium for three samples, Potassium for eight samples, and Sodium for twelve samples that were rejected due to matrix spike recovery deviations. Sample results for several analytes were also qualified based on deviations from matrix spike and laboratory duplicate analysis criteria.

The volatile organics analyses data were determined to be usable for qualitative and quantitative purposes with the exception of 1,1,2,2-Tetrachloroethane results for two samples that were rejected due to matrix spike recovery deviations. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, secondary dilution, and matrix spike criteria.

The semivolatile organics analyses data were determined to be usable for qualitative and quantitative purposes with the exception of 7.4 percent of the data that was rejected due to deviations from calibration, laboratory control sample, and matrix spike criteria. Sample results for several compounds were qualified based on deviations from initial calibration, continuing calibration, laboratory control sample, internal standard recovery, field duplicate analysis, and matrix spike criteria.

The PCBs analyses data were determined to be usable for qualitative and quantitative purposes as reported.

The herbicides/pesticides analyses data were determined to be usable for qualitative and quantitative purposes as reported by the laboratory.

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Appendices

Appendix A - Data Validation Checklists

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for soil and water samples collected at the 145 West Street site located in New York, New York. The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), pesticides/polychlorinated biphenyls (Pest/PCBs), herbicides, and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Galli Engineers, P.C. of Melville, New York. Analytical services were provided by Phoenix Environmental Laboratories, Inc. located in Manchester, Connecticut. The quantity and types of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Matrix	Sample Identification	
			Client ID	Laboratory ID
GBB88916	5/21/2012	Soil	WS J3	BB88916
			WS I3	BB88917
			WS H3	BB88918
			WS B3	BB88919
GBB91705	5/25/2012 5/29/2012 5/30/2012	Soil	WS-I2	BB91705
			WS-H2	BB91706
			WS-G2	BB91707
			WS-C2	BB91708
			WS-C2 30 FT	BB91709
			WSC 5	BB91710
			WSD 5	BB91711
			WSE 5	BB91712
			WS FS	BB91713
			WS GS	BB91714
GBB92293	5/30/2012	Soil	WS H5	BB92293
			WS I5	BB92294
			WS J5	BB92295
		Blank Soil	Trip Blank ¹	BB92296
GBB92733	5/31/2012	Soil	WS-K5	BB92733
			WS-K4	BB92734
			WS-K3	BB92735
			WS-K2	BB92736
			WS-K1	BB92737
			WSK5 20	BB92739
			WSK3 20	BB92740
			WSJ1	BB92741
		Blank Soil	Trip Blank	BB92738
			Trip Blank High	BB92974
GBB93961	6/04/2012	Soil	WS F1 0-15 FT	BB93961
			WS E1 0-15 FT	BB93962
			WS D1 0-15 FT	BB93963
			WS C1 0-15 FT	BB93964
			WS B1 0-15 FT	BB93965
			WS A1 0-15 FT	BB93966
			WS A1 20 FT	BB93968
		Blank Soil	Trip Blank HL	BB93969
			Trip Blank LL	BB94098

SDG#	Date Collected	Matrix	Sample Identification	
			Client ID	Laboratory ID
GBB93970	6/01/2012	Soil	WSI 1 0-15	BB93970
			WSH 1 0-15	BB93971
			WSG 1 0-15	BB93972
			WSH1 20-22	BB93973
			WSC3 Test Pit	BB93974
			WSE3 Test Pit	BB93975
			WS #4 3-15 FT	BB93977
			WS-G4 3-15 FT	BB93978
		Blank Soil	Trip Blank	BB93976
GBB97039	6/11/2012	Soil	Trip Blank	BB94099
			WS H2	BB97039
			WS H2-25	BB97040
			WS G2	BB97041
			WS J4	BB97042
			WS J4 DUP	BB97043
			WS J4 25	BB97044
			WS I3 25	BB97045
			WS F1 30	BB97046
GBB95362	6/06/2012	Soil	WS K4 30	BB97047
			WS I1 30	BB97048
			Trip Blank High	BB97049
			Trip Blank Low	BB97051
		Water	Field Blank	BB97050
		Blank Soil	WS D2-25	BB95363
			WS A2 0-20	BB95364
			WS B2 0-20	BB95365
GBB96188	6/07/2012	Soil	WS B2 25	BB95366
			Trip Blank	BB95367
			Trip Blank	BB95368
		Water	Field Blank	BB95362
		Soil	WS-S-1	BB96188
			WS-S-2	BB96189
			WS-S-4	BB96190
			Trip Blank	BB96191
			WS-E2	BB96192
			WS-E2 30 FT	BB96193
			WS-F2	BB96194
			WS-F2 30 FT	BB96195
			WS-F3	BB96196
			WS-F4	BB96197
			WS-D4	BB96198
			WS-D3	BB96199
			WS-DS DUP	BB96200
			WS-E3	BB96201
			WS-ES 30 FT	BB96202
			WS-C3A	BB96203
GBC72877	9/21/2012	Water	WS-C3A 30 FT	BB96204
			Trip Blank	BB96534
			MW101	BC72877
			MW104	BC72878
GBC73378	9/24/2012	Water	MW103	BC72879
			Trip Blank	BC72880
			MW 102	BC73378
			Trip Blank	BC73379

1. Sample was listed in report and supporting documentation, but results were not provided.

1.2 Analytical Methods

The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), polychlorinated biphenyls (PCBs), herbicides, pesticides, and inorganics (Metals) following New

York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by Phoenix Environmental Laboratories, Inc. located in Manchester, Connecticut.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-08-01, June 2008.
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3*, SOP No. HW-2, Revision #13, USEPA Region II, September 2006.
- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, August 2008.
- *Validating Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP No. HW-22 Revision #4, USEPA Hazardous Waste Support Branch, August 2008.
- *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A*, SOP No. HW-45 Revision #1, USEPA Hazardous Waste Support Branch, October 2006.
- *Validating Pesticide Compounds, Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B*, SOP No. HW-44 Revision #1, USEPA Hazardous Waste Support Branch, October 2006.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Inorganic Parameters

The validation of inorganics for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

1. Holding Times
2. Calibration
 - a. Initial Calibration Verification
 - b. Continuing Calibration Verification
3. Blank Analysis
4. ICP Interference Check Sample Analysis (ICP only)
5. Matrix Spike Analysis
6. Laboratory Duplicate Analysis
7. Laboratory Control Sample Analysis
8. ICP Serial Dilution Analysis (ICP only)
9. Furnace Atomic Absorption Analysis
10. Method of Standard Addition Results
11. Field Blanks
12. Element Quantification and Reported Detection Limits
13. Document Completeness
14. Overall Data Assessment

1.3.2 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

Volatile and Semivolatile Organics Analyses

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
 - a. Initial Calibration
 - b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

Herbicides, Pesticides, and PCBs Analyses

1. Holding Times
2. Instrument Performance
 - a. Standards Retention Time Windows
 - b. DCBP Retention Time Shift
 - c. Baseline Stability
 - d. Chromatographic Resolution
3. Calibration

- a. Initial Calibration
- b. Analytical Sequence Verification
- c. Continuing Calibration Verification
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike/Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Compound Identification and Quantification
9. Documentation Completeness
10. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

- U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.
- J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.
- UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.
- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklists are presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Inorganics Analysis

Data validation was performed for sixty-eight soil samples, four water samples, and two field blank samples for total inorganic parameters. The QA/QC parameters presented in Section 1.3.1 of this report were found to be within specified limits with the exception of the following:

Chain-of-Custody Documentation

The chain-of-custody (COC) documentation for sample delivery group (SDG) GBB92293 did not document the date and time of collection for the samples listed. The sampling date used to evaluate holding time compliance was 5/30/2012 as documented in the sampler's information section of the COC.

Laboratory Duplicate Analysis

Laboratory duplicate criterion requires the relative percent difference (RPD) between duplicate analyses to be less than 35 percent (50 percent for soil samples). Qualification of sample results included the approximation of data for analytes with RPD values greater than 35 percent. Samples qualified due to laboratory duplicate analysis deviations are tabulated below.

Table 2: Inorganics Analyses - Laboratory Duplicate Deviations

Duplicate Sample ID	Inorganic	Relative Percent Difference	Qualifier	Affected Samples
WS-I2	Vanadium Zinc	159.4 % 72.4 %	J J	WS-I2 WS-H2 WS-G2 WS-C2 WS-C2 30 FT WSC 5 WSD 5 WSE 5 WS FS WS GS
WS-K4	Lead	98.3 %	J, UJ	WS-K5 WS-K4 WS-K3 WS-K2 WS-K1 WSK5 20 WSK3 20 WSJ1
WS F1 0-15 FT	Lead	85.6 %	J	WS F1 0-15 FT WS E1 0-15 FT WS D1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WS A1 20 FT

Duplicate Sample ID	Inorganic	Relative Percent Difference	Qualifier	Affected Samples
WS J4	Barium Lead	63.1 % 111.3 %	J J	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30
WS J4 DUP	Calcium	75.2 %	J	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30

Matrix Spike Analysis

Matrix spike (MS) recovery criteria requiring spike recoveries to be between 75 and 125 percent were exceeded for several analytes. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Detected results were rejected for analytes with spike recoveries greater than 200 percent. Qualification of sample data was not required when the non-spiked sample concentration was greater than four-times the spike solution concentration. Samples qualified due to MS recovery deviations are tabulated below.

Table 3: Inorganics Analyses - Matrix Spike Deviations

MS Sample ID	Inorganic	Percent Recovery	Qualifier	Affected Samples
BB88926	Potassium	157.6 %	J	WS J3 WS I3 WS H3 WS B3
BB92289	Potassium Magnesium	131.5 % 210.6 %	J R	WS H5 WS I5 WS J5
WS-K4	Potassium	216.3 %	R	WS-K5 WS-K4 WS-K3 WS-K2 WS-K1 WSK5 20 WSK3 20 WSJ1

MS Sample ID	Inorganic	Percent Recovery	Qualifier	Affected Samples
WS #4 3-15 FT	Potassium	143.8 %	J	WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSC3 Test Pit WSE3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT
WS F1 0-15 FT	Barium Sodium Lead Zinc	49.7 % 172.8 % 145.2 % 66.4 %	J J J J	WS F1 0-15 FT WS E1 0-15 FT WS D1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WS A1 20 FT
WS J4	Potassium Manganese	176.6 % 177.7 %	J J	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30
WS J4 DUP	Potassium Manganese Sodium	153.6 % 151.4 % 132.1 %	J J J	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30
WS-D3	Potassium Sodium	168 % 257 %	J R	WS-S-1 WS-S-2 WS-S-4 WS-E2 30 FT WS-F2 WS-F2 30 FT WS-F3 WS-D4 WS-D3 WS-D3 DUP WS-C3A WS-C3A 30 FT
BB96668	Antimony	73.4 %	UJ	WS-E2 WS-F4

Element Quantitation and Reported Detection Limits

Detected sample results that were greater than the IDL, but less than the contract required detection limit (CRDL) were reported by the laboratory with a "B" qualifier. These results were qualified as approximated (J) as a result of the data validation.

Overall Data Assessment

Overall, the laboratory performed inorganics analyses in accordance with the requirements specified in the methods listed in Section 1.2 of this report. These data have been determined to be usable for qualitative and quantitative purposes with the exception of Magnesium for three samples, Potassium for eight samples, and Sodium for twelve samples that were rejected due to matrix spike recovery deviations. Sample results for several analytes were also qualified based on deviations from matrix spike and laboratory duplicate analysis criteria.

2.2 Volatiles Analysis

Data validation was performed for sixty-eight soil samples, four water samples, two field blank samples, and fourteen trip blank samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Chain-of-Custody Documentation

The chain-of-custody (COC) documentation for sample delivery group (SDG) GBB92293 did not document the date and time of collection for the samples listed. The sampling date used to evaluate holding time compliance was 5/30/2012 as documented in the sampler's information section of the COC. Additionally, the COC notation indicates that the Trip Blank sample was not included in the sample cooler at the time of sample receipt. Due to this deviation, the Trip Blank sample is not considered valid in evaluating potential sample contamination during shipment and will not be utilized to evaluate potential sample contamination.

Blank Analysis

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL. Samples qualified for blank contamination are tabulated below.

Table 4: Volatile Organics Analyses - Blank Analysis Deviations

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
Soil	5/29/2012	Methylene Chloride	14 µg/Kg	WS J3 WS I3 WS H3 WS B3	6.0 U µg/Kg 5.6 U µg/Kg 6.3 U µg/Kg 6.5 U µg/Kg
Soil	5/31/2012	Acetone	70 µg/Kg	WS-H2 WSC 5 WS H5 WS I5 WS J5	27 U µg/Kg 31 U µg/Kg 32 U µg/Kg 30 U µg/Kg 30 U µg/Kg

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
		Methylene Chloride	14 µg/Kg	WS-I2 WS-H2 WS-G2 WS-C2 WS-C2 30 FT WSC 5 WSD 5 WSE 5 WS FS WS GS WS H5 WS I5 WS J5	310 U µg/Kg 6.9 U µg/Kg 290 U µg/Kg 5.7 U µg/Kg 5.7 U µg/Kg 6.2 U µg/Kg 8.1 U µg/Kg 6.6 U µg/Kg 6.5 U µg/Kg 6.2 U µg/Kg 6.4 U µg/Kg 6.0 U µg/Kg 6.0 U µg/Kg
Soil	6/05/2012	Methylene Chloride	14 µg/Kg	WS-K5 WS-K3 WS-K2 WS-K1 WSK5 20 WSK3 20 WSJ1 Trip Blank Trip Blank High	6.0 U µg/Kg 6.3 U µg/Kg 6.1 U µg/Kg 6.1 U µg/Kg 5.9 U µg/Kg 5.9 U µg/Kg 6.0 U µg/Kg 5.0 U µg/Kg 250 U µg/Kg
Soil	6/06/2012	Methylene Chloride	15 µg/Kg	WS-K4	6.0 U µg/Kg
Soil	6/07/2012	Methylene Chloride	17 µg/Kg	WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSE3 Test Pit Trip Blank Trip Blank	5.6 U µg/Kg 5.8 U µg/Kg 5.9 U µg/Kg 5.7 U µg/Kg 6.0 U µg/Kg 250 U µg/Kg 5.0 U µg/Kg
Soil	6/07/2012	Methylene Chloride	9.5 µg/Kg	WSC3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT	7.7 U µg/Kg 340 U µg/Kg 7.2 U µg/Kg
Soil	6/07/2012	Methylene Chloride	17 µg/Kg	Trip Blank HL Trip Blank LL WS E1 0-15 FT	250 U µg/Kg 5.0 U µg/Kg 6.6 U µg/Kg
Soil	6/07/2012	Methylene Chloride	9.5 µg/Kg	WS F1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT	330 U µg/Kg 370 U µg/Kg 310 U µg/Kg 330 U µg/Kg
Soil	6/11/2012	Acetone	3300 µg/Kg	WS A1 20 FT	450 U µg/Kg
		Methylene Chloride	1500 µg/Kg	WS A1 20 FT Dilution WS A1 20 FT	890 U µg/Kg 250 U µg/Kg
Soil	6/12/2012	Methylene Chloride	20 µg/Kg	WS G2	9.4 U µg/Kg
Soil	6/13/2012	Methylene Chloride	21 µg/Kg	Trip Blank High Trip Blank Low WS I3 25 WS I1 30 WS J4 WS J4 DUP WS J4 25 WS F1 30 WS K4 30	250 U µg/Kg 5.0 U µg/Kg 13 U µg/Kg 13 U µg/Kg 7.2 U µg/Kg 9.0 U µg/Kg 8.7 U µg/Kg 12 U µg/Kg 11 U µg/Kg
Soil	6/14/2012	Acetone	4400 µg/Kg	WS H2 WS H2-25	62 U µg/Kg 70 U µg/Kg
Water	6/14/2012	Methylene Chloride	3.7 µg/L	Field Blank	3.0 U µg/L
		1,2,3-Trichlorobenzene	1.35 µg/L	Field Blank	1.0 U µg/L
Soil	6/08/2012 (BB94923)	Acetone Methylene Chloride	53 µg/Kg 17 µg/Kg	WS D2-25	57 U µg/Kg 5.7 U µg/Kg
Soil	6/08/2012 (BB95418)	Methylene Chloride	30 µg/Kg	Trip Blank Trip Blank	400 U µg/Kg 5.0 U µg/Kg
Soil	6/11/2012	Acetone	66 µg/Kg	WS B2 25	82 U µg/Kg

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
	(BB95386)	Methylene Chloride	30 µg/Kg	WS A2 0-20 WS B2 25 WS B2 0-20	8.7 U µg/Kg 8.2 U µg/Kg 390 U µg/Kg
Water	9/25/2012 (BC72880)	Acetone	5.6 µg/L	Trip Blank MW 102 Trip Blank	5.0 U µg/L 5.0 U µg/L 5.0 U µg/L
Soil	6/12/2012 (BB96199)	Acetone	53 µg/Kg	WS-E2 30 FT WS-F2 WS-F2 30 FT WS-F3 WS-D3 WS-S-2 WS-S-4 WS-D3 DUP	58 U µg/Kg 63 U µg/Kg 57 U µg/Kg 59 U µg/Kg 68 U µg/Kg 81 U µg/Kg 72 U µg/Kg 65 U µg/Kg
		Methylene Chloride	20 µg/Kg	Trip Blank Trip Blank WS-E2 30 FT WS-F2 WS-F2 30 FT WS-F3 WS-D3 WS-S-1 WS-C3A 30 FT WS-S-2 WS-S-4 WS-D3 DUP	360 U µg/Kg 5.0 U µg/Kg 5.8 U µg/Kg 6.3 U µg/Kg 5.7 U µg/Kg 5.9 U µg/Kg 6.8 U µg/Kg 610 U µg/Kg 5.9 U µg/Kg 8.1 U µg/Kg 7.2 U µg/Kg 7.5 U µg/Kg
Soil	6/13/2012 (BB97042)	Methylene Chloride	57 µg/Kg	WS-C3A WS-F4	6.4 U µg/Kg 310 U µg/Kg
Soil	6/14/2012 (BB97992)	Acetone	89 µg/Kg	WS-D4	61 U µg/Kg

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 5: Volatile Organics Analyses - Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
5/29/2012	Acetone	39.4 %	J	WS J3 WS I3 WS H3 WS B3
5/31/2012	Acetone Methyl Ethyl Ketone	36.5 % 32.1 %	UJ UJ	WS-I2 WS-H2 WS-G2 WS-C2 WS-C2 30 FT WSC 5 WSD 5 WSE 5 WS FS WS GS WS H5 WS I5 WS J5

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
6/14/2012	Bromomethane Acetone 2-Hexanone	37.1 % 33.7 % 36.5 %	UJ J UJ	Field Blank
6/04/2012	Acetone	33.5 %	J	Field Blank

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 6: Volatile Organics Analyses - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
5/29/2012 (14:30)	Styrene	32.6 %	UJ	WS J3 WS I3 WS H3 WS B3
5/29/2012 (22:19)	Chloroethane 1,1-Dichloroethene Trichlorofluoromethane Trans-1,2-Dichloroethene Styrene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorobenzene	28.4 % 27.6 % 25.1 % 38.5 % 46.0 % 38.1 % 33.6 % 32.6 % 31.2 %	UJ UJ UJ UJ UJ UJ UJ UJ UJ	WS J3 WS I3 WS H3 WS B3
6/01/2012 (07:28)	Acetone Methyl Ethyl Ketone 2-Hexanone	29.2 % 33.2 % 40.1 %	UJ UJ UJ	WS-I2 WS-H2 WS-G2 WS-C2 WS-C2 30 FT WSC 5 WSD 5 WSE 5 WS FS WS GS WS H5 WS I5 WS J5
6/06/2012 CHEM03 (04:27)	Acetone Methyl Ethyl Ketone 2-Hexanone	45.1 % 44.2 % 39.8 %	J, UJ UJ UJ	WS-K5 WS-K4 WS-K3 WS-K2 WS-K1 WSK5 20 WSK3 20 WSJ1 Trip Blank Trip Blank High

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
6/07/2012 CHEM03 (05:29)	Acetone 2-Hexanone	27.6 % 27.3 %	J, UJ UJ	Trip Blank HL Trip Blank LL WS E1 0-15 FT WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSE3 Test Pit Trip Blank Trip Blank
6/07/2012 CHEM03 (16:19)	Methyl t-Butyl Ether Trans-1,4-Dichloro-2-butene	29.8 % 27.0 %	UJ UJ	Trip Blank HL Trip Blank LL WS E1 0-15 FT WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSE3 Test Pit Trip Blank Trip Blank
6/07/2012 CHEM03 (17:47)	Trans-1,4-Dichloro-2-butene	27.7 %	UJ	WS F1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WSC3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT
6/08/2012 CHEM03 (04:36)	Acetone Methyl Ethyl Ketone 2-Hexanone Bromoform	32.6 % 32.5 % 30.9 % 29.0 %	J, UJ UJ UJ UJ	WS F1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WSC3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT
6/11/2012 CHEM03 (15:37)	Carbon Tetrachloride Trans-1,3-Dichloropropene Dibromochloromethane 1,1,1,2-Tetrachloroethane Bromoform Trans-1,4-Dichloro-2-butene 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene	41.0 % 28.4 % 26.8 % 27.7 % 51.7 % 37.9 % 25.2 % 28.9 % 29.0 % 27.7 %	UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ	WS A1 20 FT Dilution WS A1 20 FT
6/12/2012 CHEM03 (02:29)	Carbon Tetrachloride Dibromochloromethane 1,1,1,2-Tetrachloroethane Bromoform	38.7 % 28.7 % 29.5 % 42.3 %	UJ UJ UJ UJ	WS A1 20 FT Dilution WS A1 20 FT
6/12/2012 CHEM03 (16:14)	Acetone Methyl Ethyl Ketone Carbon Tetrachloride 2-Hexanone Dibromochloromethane 1,1,1,2-Tetrachloroethane Bromoform Hexachlorobutadiene	31.3 % 33.0 % 34.7 % 31.5 % 26.0 % 28.4 % 36.3 % 28.9 %	J, UJ UJ UJ UJ UJ UJ UJ UJ	WS D1 0-15 FT
6/12/2012 CHEM03 (04:21)	Methyl Ethyl Ketone Carbon Tetrachloride Dibromochloromethane 1,1,1,2-Tetrachloroethane Bromoform Trans-1,4-Dichloro-2-butene	26.5 % 38.7 % 32.8 % 33.7 % 43.9 % 31.9 %	UJ UJ UJ UJ UJ UJ	WS D1 0-15 FT
6/14/2012 CHEM11 (11:11)	Dichlorodifluoromethane	28.4 %	UJ	WS H2 WS H2-25

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
6/14/2012 CHEM11 (19:59)	4-Methyl-2-pentanone	25.1 %	UJ	WS H2 WS H2-25
6/14/2012 CHEM02 (08:22)	Vinyl Chloride Trichlorofluoromethane Acetone Carbon Disulfide Methylene Chloride Cyclohexane Methyl t-butyl Ether Carbon Tetrachloride Benzene 1,2-Dichloroethane Methylcyclohexane Trichloroethene 1,2-Dichloropropane Bromodichloromethane cis-1,3-Dichloropropene 4-Methyl-2-Pentanone Toluene Trans-1,3-Dichloropropene 1,1,2-Trichloroethane 1,4-Dichlorobenzene 1,2-Dibromo-3-Chloropropane	25.2 % 26.9 % 35.6 % 25.8 % 31.5 % 26.7 % 30.1 % 31.0 % 30.6 % 28.3 % 36.7 % 27.8 % 32.9 % 29.8 % 28.6 % 27.4 % 28.6 % 28.4 % 30.1 % 27.4 % 32.6 %	UJ UJ J UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ	Field Blank
6/08/2012 CHEM03 (05:29)	Acetone Methyl Ethyl Ketone 2-Hexanone Bromoform 1,2,4-Trichlorobenzene	34.8 % 29.9 % 31.7 % 30.2 % 25.5 %	UJ UJ UJ UJ UJ	WS D2-25
6/08/2012 CHEM03 (17:28)	Acetone 2-Hexanone Bromoform Trans-1,4-Dichloro-2-butene	27.0 % 25.7 % 31.5 % 28.5 %	UJ UJ UJ UJ	WS D2-25
6/08/2012 CHEM03 (19:26)	Carbon Tetrachloride Dibromochloromethane 1,1,1,2-Tetrachloroethane Bromoform 1,2,3-Trichloropropane Trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-Chloropropane	34.3 % 34.3 % 31.5 % 51.3 % 29.0 % 28.4 % 27.1 %		Trip Blank Trip Blank
6/11/2012 CHEM03 (15:37)	Carbon Tetrachloride Trans-1,3-Dichloropropene Dibromochloromethane 1,1,1,2-Tetrachloroethane Bromoform Trans-1,4-Dichloro-2-butene 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene	41.0 % 28.4 % 26.8 % 27.7 % 51.7 % 37.9 % 25.2 % 28.9 % 29.0 % 27.7 %	UJ UJ UJ UJ UJ UJ UJ UJ UJ UJ	WS A2 0-20 WS B2 25 WS B2 0-20
6/12/2012 CHEM03 (02:29)	Acetone Carbon Tetrachloride Dibromochloromethane 1,1,1,2-Tetrachloroethane Bromoform	28.3 % 38.7 % 28.7 % 29.5 % 42.3 %	UJ UJ UJ UJ UJ	WS A2 0-20 WS B2 25 WS B2 0-20
6/08/2012 CHEM08 (02:03)	Methyl t-Butyl Ether 1,2-Dichloroethane cis-1,3-Dichloropropene 4-Methyl-2-Pentanone	36.1 % 25.1 % 25.2 % 26.7 %	UJ UJ UJ UJ	Field Blank
6/08/2012 CHEM08 (12:32)	Dichlorodifluoromethane Bromomethane 2,2-Dichloropropane Methyl Ethyl Ketone Methyl t-Butyl Ether Carbon Tetrachloride cis-1,3-Dichloropropene trans-1,3-Dichloropropene	46.5 % 82.0 % 44.3 % 28.3 % 32.9 % 37.7 % 28.7 % 28.7 %	UJ UJ UJ UJ UJ UJ UJ UJ	Field Blank

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
9/25/2012 CHEM02 (12:42)	cis-1,3-Dichloropropene trans-1,3-Dichloropropene	25.5 % 27.0 %	UJ UJ	MW103 MW101 MW104 Trip Blank MW 102 Trip Blank
9/25/2012 CHEM02 (23:01)	Bromodichloromethane cis-1,3-Dichloropropene trans-1,3-Dichloropropene	26.2 % 29.2 % 27.3 %	UJ UJ UJ	MW103 MW101 MW104 Trip Blank MW 102 Trip Blank
6/14/2012 CHEM11 (11:11)	Dichlorodifluoromethane	28.4 %	UJ	WS-D4
6/14/2012 CHEM11 (19:59)	4-Methyl-2-pentanone	25.1 %	UJ	WS-D4

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 7: Volatile Organics Analyses - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil	Acetone Methyl Ethyl Ketone 2-Hexanone	61 %/60 % 54 %/57 % 60 %/61 %	70 % to 130 % 70 % to 130 % 70 % to 130 %	J, UJ UJ UJ	WS F1 0-15 FT WS E1 0-15 FT WS D1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WS A1 20 FT Trip Blank HL Trip Blank LL WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSC3 Test Pit WSE3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT
Soil	Bromomethane	68 %/63 %	70 % to 130 %	UJ	WS H2 WS H2-25
Water	Dichlorodifluoromethane	56 %/45 %	70 % to 130 %	UJ	Field Blank
Soil	Acetone Methyl Ethyl Ketone 2-Hexanone	63 % 56 % 61 %	70 % to 130 % 70 % to 130 % 70 % to 130 %	UJ UJ UJ	WS D2-25

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil	Acetone	68 %/70 %	70 % to 130 %	UJ	WS A2 0-20
	Methyl Ethyl Ketone	63 %/63 %	70 % to 130 %	UJ	WS B2 25 WS B2 0-20
Water	Dichlorodifluoromethane	41 %/67 %	70 % to 130 %	UJ	Field Blank
	Methyl t-Butyl Ether	63 %/62 %	70 % to 130 %	UJ	
Soil BB96199	o-Xylene	51 %/53 %	70 % to 130 %	UJ	Trip Blank Trip Blank WS-E2 30 FT WS-F2 WS-F2 30 FT WS-F3 WS-D3 WS-S-1 WS-C3A 30 FT WS-S-2 WS-S-4 WS-D3 DUP
	Styrene	52 %/54 %	70 % to 130 %	UJ	
Soil BB97042	Acetone	66 %/75 %	70 % to 130 %	J, UJ	WS-E2
	o-Xylene	53 %/52 %	70 % to 130 %	UJ	WS-C3A
	Styrene	52 %/53 %	70 % to 130 %	UJ	WS-F4
Soil BB97992	Dichlorodifluoromethane	82 %/69 %	70 % to 130 %	UJ	WS-D4
	Bromomethane	68 %/63 %	70 % to 130 %	UJ	
	Acetone	65 %/77 %	70 % to 130 %	J, UJ	
	o-Xylene	52 %/51 %	70 % to 130 %	UJ	
	Styrene	54 %/53 %	70 % to 130 %	UJ	

Matrix Spike Recovery

Matrix spike/matrix spike duplicate (MS/MSD) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries less than 10 percent. Samples qualified due to MS/MSD recovery deviations are tabulated below.

Table 8: Volatile Organics Analyses - MS/MSD Analysis Deviations

MS/MSD Sample ID	Compound	Percent Recovery (MS/MSD)	Control Limits	Qualifier	Affected Samples
WS H3	Bromomethane	71 %/59 %	70 % to 130 %	UJ	WS H3
	Chloroethane	32 %/30 %	70 % to 130 %	UJ	
	Trichlorofluoromethane	8 %/28 %	70 % to 130 %	UJ	
	Acetone	151 %/-145 %	70 % to 130 %	J	
	Carbon Disulfide	128 %/137 %	70 % to 130 %	J	
	Methyl Ethyl Ketone	59 %/62 %	70 % to 130 %	UJ	
	2-Hexanone	52 %/57 %	70 % to 130 %	UJ	
	1,2-Dibromo-3-Chloropropane	58 %/62 %	70 % to 130 %	UJ	
	Naphthalene	74 %/64 %	70 % to 130 %	UJ	
	1,2,3-Trichlorobenzene	73 %/67 %	70 % to 130 %	UJ	
WS-C2 30 FT	2-Hexanone	66 %/60 %	70 % to 130 %	UJ	WS-C2 30 FT
WS-K3	2-Hexanone	64 %/67 %	70 % to 130 %	UJ	WS-K3
	Chlorobenzene	89 %/66 %	70 % to 130 %	UJ	
	Ethylbenzene	92 %/69 %	70 % to 130 %	UJ	
	Styrene	84 %/62 %	70 % to 130 %	UJ	
	Bromobenzene	83 %/58 %	70 % to 130 %	UJ	

MS/MSD Sample ID	Compound	Percent Recovery (MS/MSD)	Control Limits	Qualifier	Affected Samples
WS-K4	Acetone	133 %/128 %	70 % to 130 %	J	WS-K4
	Trichloroethene	161 %/163 %	70 % to 130 %	J	
	1,1,2,2-Tetrachloroethane	0 %/0 %	70 % to 130 %	R	
	1,2,4-Trichlorobenzene	62 %/65 %	70 % to 130 %	UJ	
	Hexachlorobutadiene	63 %/65 %	70 % to 130 %	UJ	
	Naphthalene	69 %/67 %	70 % to 130 %	UJ	
	1,2,3-Trichlorobenzene	57 %/63 %	70 % to 130 %	UJ	
WS H1 0-15	Acetone	63 %/59 %	70 % to 130 %	UJ	WS H1 0-15
	Methyl Ethyl Ketone	64 %/ 67 %	70 % to 130 %	UJ	
WS-D3	Bromomethane	52 %/64 %	70 % to 130 %	UJ	WS-D3
	Acetone	66 %/60 %	70 % to 130 %	J, UJ	
	Carbon Disulfide	71 %/68 %	70 % to 130 %	J, UJ	
	Methylene Chloride	54 %/58 %	70 % to 130 %	J	
	trans-1,2-Dichloroethene	61 %/64 %	70 % to 130 %	UJ	
	cis-1,2-Dichloroethene	68 %/65 %	70 % to 130 %	UJ	
	Methyl Ethyl Ketone	73 %/63 %	70 % to 130 %	J	
	Bromochloromethane	76 %/68 %	70 % to 130 %	UJ	
	Methylcyclohexane	65 %/72 %	70 % to 130 %	UJ	
	Bromodichloromethane	66 %/67 %	70 % to 130 %	UJ	
	cis-1,3-Dichloropropene	30 %/35 %	70 % to 130 %	UJ	
	trans-1,3-Dichloropropene	25 %/26 %	70 % to 130 %	UJ	
	1,1,2-Trichloroethane	55 %/52 %	70 % to 130 %	UJ	
	1,2-Dibromoethane	53 %/52 %	70 % to 130 %	UJ	
	Dibromochloromethane	58 %/60 %	70 % to 130 %	UJ	
	Chlorobenzene	54 %/58 %	70 % to 130 %	UJ	
	Ethylbenzene	66 %/71 %	70 % to 130 %	UJ	
	m,p-Xylene	63 %/67 %	70 % to 130 %	UJ	
	o-Xylene	37 %/38 %	70 % to 130 %	UJ	
	Styrene	20 %/22 %	70 % to 130 %	UJ	
	Bromoform	51 %/53 %	70 % to 130 %	UJ	
	1,1,2,2-Tetrachloroethane	2 %/0 %	70 % to 130 %	R	
	1,3-Dichlorobenzene	41 %/43 %	70 % to 130 %	UJ	
	1,4-Dichlorobenzene	34 %/36 %	70 % to 130 %	UJ	
	1,2-Dichlorobenzene	48 %/49 %	70 % to 130 %	UJ	
	1,2-Dibromo-3-Chloropropane	54 %/48 %	70 % to 130 %	UJ	
	1,2,4-Trichlorobenzene	31 %/27 %	70 % to 130 %	UJ	
	1,2,3-Trichlorobenzene	39 %/31 %	70 % to 130 %	UJ	

Internal Standards Recovery

The internal standard areas exceeded recovery limits for several samples. Qualification of sample results included the approximation of results when recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 25 percent. Samples qualified due to internal standard recovery deviations are tabulated below.

Table 9: Volatile Organics Analyses - Internal Standard Deviations

Internal Standard	Sample ID	Percent Recovery	Affected Compounds	Qualifier
1,4-Dichlorobenzene-d4	WS B3	41.45 %	Isopropylbenzene	J, UJ
	WS-H2	43.88 %	1,1,2,2-Tetrachloroethane	UJ
	WS-C2	47.3 %	Bromobenzene	UJ
	WS G2	37.88 %	1,2,3-Trichloropropane	UJ
	WS D1 0-15 FT	34.7 %	n-Propylbenzene	UJ
			2-Chlorotoluene	UJ
			1,3,5-Trimethylbenzene	UJ
			Trans-1,4-Dichloro-2-butene	UJ
			4-Chlorotoluene	UJ
			Tert-Butylbenzene	UJ
			1,2,4-Trimethylbenzene	J, UJ
			Sec-Butylbenzene	UJ
			1,3-Dichlorobenzene	UJ
			p-Isopropyltoluene	UJ
			1,4-Dichlorobenzene	UJ
			n-Butylbenzene	UJ
			1,2-Dichlorobenzene	UJ
			1,2-Dibromo-3-chloropropane	UJ
			1,2,4-Trichlorobenzene	UJ
			Hexachlorobutadiene	UJ
			Naphthalene	UJ
			1,2,3-Trichlorobenzene	UJ

Secondary Dilution

The detected acetone result for WS G2 exceeded the linear calibration range of the instrument, but was not re-analyzed at a secondary dilution by the laboratory. The detected acetone result for this sample was qualified as approximated (J) due to this deviation.

Overall Data Assessment

Overall, the laboratory performed volatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the exception of 1,1,2,2-Tetrachloroethane results for two samples that were rejected due to matrix spike recovery deviations. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, secondary dilution, and matrix spike criteria.

2.3 Semivolatiles Analysis

Data validation was performed for sixty-eight soil samples, four water samples, and two field blank samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Chain-of-Custody Documentation

The chain-of-custody (COC) documentation for sample delivery group (SDG) GBB92293 did not document the date and time of collection for the samples listed. The sampling date used to evaluate holding time compliance was 5/30/2012 as documented in the sampler's information section of the COC.

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 10: Semivolatile Organics Analyses - Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
5/11/2012	Hexachlorocyclopentadiene	35.7 %	UJ	WS J3 WS I3 WS H3 WS B3
6/01/2012 CHEM06	4-Chloroaniline 3-Nitroaniline 3,3'-Dichlorobenzidine	45.2 % 75.1 % 34.1 %	UJ UJ UJ	WS-H2 WSK3 20 WSG 1 0-15 Dilution
5/31/2012 CHEM12	3,3'-Dichlorobenzidine	32.5 %	UJ	WS-I2 WS-G2 WS-C2 WS-C2 30 FT WSC 5 WSD 5 WSE 5 WS FS WS GS
6/03/2012 CHEM12	Pyridine Benzoic Acid 2,4-Dinitrophenol 2-Nitroaniline 4,6-Dinitro-2-methylphenol Benzyl Butyl Phthalate Bis(2-ethylhexyl)phthalate Di-n-Octylphthalate	33.8 % 57.1 % 30.5 % 31.9 % 30.7 % 48.0 % 36.1 % 35.2 %	UJ UJ UJ UJ UJ UJ UJ UJ	WS-K5 WS-K4 WS-K3 WS-K2 WS-K1 WSK5 20 WSJ1
6/05/2012 CHEM07	Aniline 4-Chloroaniline 3-Nitroaniline 3,3'-Dichlorobenzidine	81.3 % 91.3 % 153.0 % 62.9 %	UJ R R UJ	WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSC3 Test Pit WSE3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
6/10/2012 CHEM06	3-Nitroaniline 3,3'-Dichlorobenzidine Atrazine	92.8 % 55.8 % NR ¹	R UJ R	Field Blank WS-S-1 WS-S-2 WS-S-4 WS-E2 30 FT WS-F2 30 FT WS-F3 WS-F2 WS-D4 WS-D3 WS-D3 DUP WS-C3A WS-C3A 30 FT WS-E2 WS-F4
6/7/2012 CHEM09	3,3'-Dichlorobenzidine Atrazine	36.8 % NR ¹	UJ R	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30 WS D2-25 WS A2 0-20 WS B2 0-20 WS B2 25 Field Blank WS-S-1 Dilution WS-F4 Dilution
9/16/2012 CHEM06	4-Chloroaniline	39.3 %	UJ	MW 102

1. NR – Value was not reported

A five-point calibration was not performed for benzidine. Due to this deviation, the non-detected benzidine results were rejected (R) for all samples.

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 11: Semivolatile Organics Analyses - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
5/23/2012 CHEM09 (09:07)	Aniline 4-Chloroaniline 3-Nitroaniline 3,3'-Dichlorobenzidine Benzidine	52.4 % 46.3 % 80.6 % 42.2 % NR ¹	UJ UJ UJ UJ R	WS J3 WS I3 WS H3 WS B3

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
5/23/2012 (13:39)	Bis(2-chloroethyl)ether Hexachloroethane 2-Nitrophenol Hexachlorocyclopentadiene 2,4-Dinitrophenol 2-Nitroaniline 4,6-Dinitro-2-methylphenol Pentachloronitrobenzene 3,3'-Dichlorobenzidine Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Benzidine	26.0 % 33.7 % 35.4 % 96.0 % 96.1 % 82.1 % 94.7 % 32.0 % 27.5 % 29.0 % 36.3 % NR ¹	UJ UJ UJ R R UJ R UJ UJ J, UJ J, UJ R	WS J3 WS I3 WS H3 WS B3
6/05/2012 CHEM06 (09:10)	3-Nitroaniline Carbazole Benzidine	84.2 % 42.4 % NR ¹	UJ UJ R	WS-H2 WSK3 20
6/05/2012 CHEM06 (13:59)	N-Nitrosodimethylamine Pyridine Hexachloroethane 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Carbazole Benzidine	26.1 % 25.6 % 32.9 % 78.6 % 92.0 % 49.1 % 62.6 % 47.3 % 25.1 % NR ¹	UJ UJ UJ UJ R UJ UJ UJ UJ R	WS-H2 WSK3 20
6/03/2012 CHEM09 (07:22)	2-Nitrophenol Benzidine	25.8 % NR ¹	UJ R	WS-G2 Dilution WS-C2 Dilution WSD 5 Dilution WSE 5 Dilution
6/03/2012 CHEM09 (18:23)	Aniline Hexachloroethane Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 2-Nitroaniline 4,6-Dinitro-2-methylphenol Pentachloronitrobenzene 3,3'-Dichlorobenzidine Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Benzidine	42.9 % 48.0 % 90.7 % 32.2 % 87.8 % 68.4 % 85.0 % 36.0 % 80.5 % 44.5 % 39.9 % 50.0 % NR ¹	UJ UJ R UJ UJ UJ UJ UJ UJ J J, UJ J R	WS-G2 Dilution WS-C2 Dilution WSD 5 Dilution WSE 5 Dilution
6/04/2012 CHEM09 (18:20)	Benzidine	NR ¹	R	WS-K5 Dilution
5/31/2012 CHEM12 (14:41)	Benzidine	NR ¹	R	WS-I2 WS-G2 WS-C2 WS-C2 30 FT WSC 5 WSD 5 WSE 5 WS FS WS GS
5/31/2012 CHEM12 (22:13)	Hexachloroethane 4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Benzidine	44.0 % 35.5 % 96.4 % 96.6 % 94.9 % 77.4 % 40.5 % 38.3 % 44.9 % NR ¹	UJ UJ R R R UJ J, UJ J, UJ J, UJ R	WS-I2 WS-G2 WS-C2 WS-C2 30 FT WSC 5 WSD 5 WSE 5 WS FS WS GS

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
6/03/2012 CHEM09 (07:22)	2-Nitrophenol	25.8 %	UJ	WS H5 WS I5 WS J5 WS H5 Dilution
6/03/2012 CHEM09 (18:23)	Aniline Hexachloroethane Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 2-Nitroaniline 4,6-Dinitro-2-methylphenol Pentachloronitrobenzene 3,3'-Dichlorobenzidine Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	42.9 % 48.0 % 90.7 % 32.2 % 87.8 % 68.4 % 85.0 % 36.0 % 80.5 % 44.5 % 39.9 % 50.0 %	UJ UJ R UJ UJ UJ UJ UJ UJ J J, UJ J, UJ	WS H5 WS I5 WS J5 WS H5 Dilution
6/03/2012 CHEM12 (16:32)	2-Nitrophenol Benzoic Acid 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Benzyl Butyl Phthalate Benzidine	26.8 % 90.8 % 52.0 % 38.2 % 41.1 % NR ¹	UJ R UJ UJ UJ R	WS-K4 WS-K3 WS-K2 WS-K1 WSK5 20 WSJ1 WS-K5
6/03/2012 CHEM12 (23:40)	m,p-Cresol 2-Nitrophenol Benzoic Acid Hexachlorocyclopentadiene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Benzyl Butyl Phthalate Benzo(g,h,i)perylene Benzidine	27.1 % 25.8 % 151.9 % 26.9 % 53.8 % 34.0 % 25.8 % 28.7 % NR ¹	UJ UJ R UJ UJ UJ UJ J, UJ R	WS-K4 WS-K3 WS-K2 WS-K1 WSK5 20 WSJ1 WS-K5
6/06/2012 CHEM07 (22:43)	Benzidine Aniline 3-Nitroaniline	NR ¹ 52.3 % 77.8 %	R UJ UJ	WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSC3 Test Pit WSE3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT
6/07/2012 CHEM07 (08:01)	Benzidine Aniline 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Carbazole Benzo(g,h,i)perylene	NR ¹ 64.2 % 38.7 % 90.5 % 54.8 % 83.4 % 65.7 % 27.0 % 27.3 %	R UJ UJ R UJ UJ UJ J, UJ J, UJ	WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSC3 Test Pit WSE3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT
6/06/2012 CHEM09 (10:11)	Benzidine	NR ¹	R	WS F1 0-15 FT WS E1 0-15 FT WS D1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WS A1 20 FT
6/06/2012 CHEM09 (17:19)	Benzidine 2-Methylnaphthalene Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 2-Nitroaniline 4,6-Dinitro-2-methylphenol Pentachlorophenol	NR ¹ 25.2 % 52.3 % 44.7 % 52.8 % 56.3 % 32.1 % 28.5 %	R J, UJ UJ UJ UJ UJ UJ UJ	WS F1 0-15 FT WS E1 0-15 FT WS D1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WS A1 20 FT WS F1 0-15 FT Dilution WS C1 0-15 FT Dilution

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
6/07/2012 CHEM06 (09:42)	Benzidine N-Nitrosodimethylamine Pyridine Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine	NR ¹ 29.9 % 28.8 % 31.9 % 72.3 % 46.9 % 28.0 % 65.8 %	R UJ UJ UJ UJ UJ UJ	WSG 1 0-15 Dilution
6/07/2012 CHEM06 (22:19)	Benzidine 4-Chloroaniline 3-Nitroaniline Butyl Benzyl Phthalate	NR ¹ 54.2 % 35.1 % 44.8 %	R UJ UJ UJ	WSG 1 0-15 Dilution
6/15/2012 CHEM06 (08:33)	2-Methylphenol Hexachlorocyclopentadiene 2,4-Dinitrophenol 3,3'-Dichlorobenzidine Atrazine	52.7 % 46.2 % 35.5 % 37.8 % NR ¹	UJ UJ UJ UJ R	Field Blank
6/15/2012 CHEM06 (15:33)	2-Methylphenol Hexachlorocyclopentadiene 3-Nitroaniline Atrazine	62.5 % 34.5 % 47.7 % NR ¹	UJ UJ UJ R	Field Blank
6/12/2012 CHEM09 (22:30)	Bis(2-chloroisopropyl)ether Atrazine	28.3 % NR ¹	UJ R	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30
6/13/2012 CHEM09 (09:52)	Bis(2-chloroisopropyl)ether m,p-Xylene Hexachlorocyclopentadiene 3-Nitroaniline Atrazine 3,3'-Dichlorobenzidine	29.7 % 26.6 % 52.0 % 36.3 % NR ¹ 54.6 %	UJ UJ UJ UJ R UJ	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30
6/07/2012 CHEM09 (21:25)	Benzidine 2,4-Dinitrophenol 3,3'-Dichlorobenzidine	NR ¹ 32.8 % 26.4 %	R UJ UJ	WS D2-25 WS A2 0-20 WS B2 0-20 WS B2 25
6/08/2012 CHEM09 (06:08)	Bis(2-chloroethyl)ether Aniline Hexachloroethane Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 2-Nitroaniline 4,6-Dinitro-2-methylphenol Benzidine 3,3'-Dichlorobenzidine Benzo(b)fluoranthene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	25.2 % 33.3 % 39.1 % 85.5 % 69.1 % 84.7 % 79.8 % 80.0 % NR ¹ 63.1 % 25.2 % 41.0 % 36.5 % 50.3 %	UJ UJ UJ UJ UJ UJ UJ UJ R UJ J, UJ J, UJ J, UJ J, UJ	WS D2-25 WS A2 0-20 WS B2 0-20 WS B2 25
6/11/2012 CHEM06 (22:21)	2-Methylphenol 2-Nitroaniline Atrazine	40.4 % 50.4 % NR ¹	UJ UJ R	WS-S-1 WS-S-2 WS-S-4 WS-E2 30 FT

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
6/12/2012 CHEM06 (08:29)	2-Methylphenol Hexachloroethane 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Atrazine 3,3'-Dichlorobenzidine	35.9 % 35.9 % 96.2 % 97.7 % 113.6 % 90.2 % 75.3 % NR ¹ 32.6 %	UJ UJ R R R R UJ R UJ	WS-S-1 WS-S-2 WS-S-4 WS-E2 30 FT
6/12/2012 CHEM06 (10:18)	2-Methylphenol 3-Nitroaniline 2-Nitroaniline Atrazine Carbazole	53.7 % 41.1 % 36.1 % NR ¹ 32.2 %	UJ R UJ R UJ	WS-F2 30 FT WS-F3 WS-F2 WS-D4 WS-D3 WS-D3 DUP WS-C3A
6/12/2012 CHEM06 (21:08)	2-Methylphenol Atrazine Carbazole	48.1 % NR ¹ 26.4 %	UJ R UJ	WS-C3A 30 FT WS-E2 WS-F4
6/13/2012 CHEM06 (08:48)	Bis(2-chloroethyl)ether Benzaldehyde 2-Methylphenol Hexachloroethane 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 2,4-Dinitrophenol Atrazine Fluoranthene Pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	56.1 % 32.0 % 50.5 % 57.0 % 106.6 % 93.8 % 171.7 % 87.2 % NR ¹ 26.2 % 31.6 % 26.9 % 25.9 % 38.9 %	UJ UJ UJ UJ R R R UJ R J, UJ J, UJ J, UJ J, UJ J, UJ	WS-C3A 30 FT WS-E2 WS-F4
6/12/2012 CHEM09 (09:48)	Bis(2-chloroisopropyl)ether Carbazole Benzidine	26.0 % 29.7 % NR ¹	UJ UJ R	Field Blank WS-S-1 Dilution
6/12/12 CHEM09 (20:48)	Bis(2-chloroisopropyl)ether Benzidine	27.0 % NR ¹	UJ R	Field Blank WS-S-1 Dilution
6/14/12 CHEM09 (09:27)	N-Nitrosodimethylamine Bis(2-chloroisopropyl)ether Atrazine	29.9 % 34.9 % NR ¹	UJ UJ R	WS-F4 Dilution
6/14/12 CHEM09 (20:03)	N-Nitrosodimethylamine Bis(2-chloroisopropyl)ether Atrazine Bis(2-ethylhexyl)phthalate Di-n-Octylphthalate	32.1 % 43.6 % NR ¹ 90.5 % 91.6 %	UJ UJ R R R	WS-F4 Dilution
9/25/2012 CHEM12 (09:10)	4-Chloroaniline Atrazine Carbazole	62.5 % 77.8 % 31.9 %	UJ UJ UJ	MW101 MW104 MW103
9/25/2012 CHEM12 (19:05)	4-Chloroaniline Atrazine 3,3'-Dichlorobenzidine	52.4 % 77.5 % 29.4 %	UJ UJ UJ	MW101 MW104 MW103
9/26/2012 CHEM06 (09:09)	Benzaldehyde 2,4-Dinitrophenol Atrazine Pentachlorophenol	35.3 % 29.6 % 74.4 % 39.2 %	UJ UJ UJ UJ	MW 102

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
9/26/2012 CHEM06 (20:48)	N-Nitrosodimethylamine	36.4 %	UJ	MW 102
	Benzaldehyde	46.6 %	UJ	
	2-Nitrophenol	28.9 %	UJ	
	4-Chloroaniline	86.3 %	UJ	
	Hexachlorocyclopentadiene	82.9 %	UJ	
	2,4-Dinitrophenol	33.8 %	UJ	
	4-Nitrophenol	55.9 %	UJ	
	2-Nitroaniline	35.9 %	UJ	
	Atrazine	76.3 %	UJ	
	Carbazole	36.5 %	UJ	

1. NR – Value was not reported

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 12: Semivolatile Organics Analyses - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples	
Soil	2,4-Dinitrophenol	13 %/11 %	30 % to 130 %	R	WS J3 WS I3 WS H3 WS B3	
Soil	2,4-Dinitrophenol	2 %/2 %	30 % to 130 %	R	WS-I2 WS-H2 WS-G2 WS-C2 WS-C2 30 FT	WSC 5 WSD 5 WSE 5 WS FS WS GS
Soil	2,4-Dinitrophenol	25 %/0 %	30 % to 130 %	R	WS H5 WS I5 WS J5 WS H5 Dilution	
Soil	2,4-Dinitrophenol	16 %/28 %	30 % to 130 %	UJ	WS-K5 WS-K4 WS-K3 WS-K2 WS-K1 WSK5 20 WSK3 20 WSJ1	
Soil	2,4-Dinitrophenol	0 %/0 %	30 % to 130 %	R	WS F1 0-15 FT WS E1 0-15 FT WS D1 0-15 FT WS C1 0-15 FT WS B1 0-15 FT WS A1 0-15 FT WS A1 20 FT	

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	0 %/0 % 29 %/46 %	30 % to 130 % 30 % to 130 %	R UJ	WSI 1 0-15 WSH 1 0-15 WSG 1 0-15 WSH1 20-22 WSC3 Test Pit WSE3 Test Pit WS #4 3-15 FT WS-G4 3-15 FT
Soil	Hexachlorocyclopentadiene 2,4-Dinitrophenol Atrazine	21 %/24 % 18 %/15 % 0 %/0 %	30 % to 130 % 30 % to 130 % 30 % to 130 %	UJ UJ R	WS H2 WS H2-25 WS G2 WS J4 WS J4 DUP WS J4 25 WS I3 25 WS F1 30 WS K4 30 WS I1 30
Soil	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	0 %/0 % 33 %/20 %	30 % to 130 % 30 % to 130 %	R UJ	WS D2-25 WS A2 0-20 WS B2 0-20 WS B2 25
Soil	2,4-Dinitrophenol Atrazine	0 %/0 % 0 %/0 %	30 % to 130 % 30 % to 130 %	R R	WS-S-1 WS-S-2 WS-S-4 WS-E2 WS-E2 30 FT WS-F2 WS-F2 30 FT WS-F3 WS-F4 WS-D4 WS-D3 WS-DS DUP WS-C3A WS-C3A 30 FT
Water	Pyridine 4-Chloroaniline	0 %/0 % 0 %/0 %	30 % to 130 % 30 % to 130 %	R R	Field Blank

Internal Standards Recovery

The internal standard areas exceeded recovery limits for several samples. Qualification of sample results included the approximation of results when recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 25 percent. Samples qualified due to internal standard recovery deviations are tabulated below.

Table 13: Semivolatile Organics Analyses - Internal Standard Deviations

Sample ID	Internal Standard	Percent Recovery	Qualifier	Affected Compounds
WS-S-1	Chrysene-d12 Perylene-d12	48.12 % 44.44 %	J, UJ	Butyl Benzyl Phthalate Bis(2-ethylhexyl)phthalate Benzo(a)anthracene Chrysene Di-n-Octylphthalate 3,3'-Dichlorobenzidine Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene
WS-S-2	Chrysene-d12 Perylene-d12	45.41 % 47.25 %	J, UJ	Butyl Benzyl Phthalate Bis(2-ethylhexyl)phthalate Benzo(a)anthracene Chrysene Di-n-Octylphthalate 3,3'-Dichlorobenzidine Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene
WS-S-4	Chrysene-d12 Perylene-d12	41.55 % 36.17 %	J, UJ	Butyl Benzyl Phthalate Bis(2-ethylhexyl)phthalate Benzo(a)anthracene Chrysene Di-n-Octylphthalate 3,3'-Dichlorobenzidine Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene
WS-E2 30 FT	Perylene-d12	42.38 %	J, UJ	Butyl Benzyl Phthalate Bis(2-ethylhexyl)phthalate Benzo(a)anthracene Chrysene Di-n-Octylphthalate 3,3'-Dichlorobenzidine Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene
WS-C3A 30 FT	Chrysene-d12	47.94 %	J, UJ	Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene

Sample ID	Internal Standard	Percent Recovery	Qualifier	Affected Compounds
WS-E2	Chrysene-d12	47.37 %	J, UJ	Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene

Matrix Spike Recovery

Matrix spike/matrix spike duplicate (MS/MSD) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries less than 10 percent. Samples qualified due to MS/MSD recovery deviations are tabulated below.

Table 14: Semivolatile Organics Analyses - MS/MSD Analysis Deviations

MS/MSD Sample ID	Compound	Percent Recovery (MS/MSD)	Control Limits	Qualifier	Affected Samples
WS I3	Hexachlorocyclopentadiene	31 %/16 %	30 % to 130 %	UJ	WS I3
	2,4-Dinitrophenol	0 %/0 %	30 % to 130 %	R	
	4-Nitrophenol	9 %/0 %	30 % to 130 %	R	
	4,6-Dinitro-2-methylphenol	0 %/0 %	30 % to 130 %	R	
	Pentachlorophenol	6 %/7 %	30 % to 130 %	R	
WS-C2 30 FT	2,4-Dinitrophenol	7 %/6 %	30 % to 130 %	R	WS-C2 30 FT
	2-Nitroaniline	177 %/142 %	30 % to 130 %	J	
	Pentachloronitrobenzene	164 %/171 %	30 % to 130 %	J	
WS-K4	2,4-Dinitrophenol	0 %/0 %	30 % to 130 %	R	WS-K4
	4,6-Dinitro-2-methylphenol	36 %/15 %	30 % to 130 %	UJ	
WS F1 0-15 FT	Hexachlorocyclopentadiene	17 %/7 %	30 % to 130 %	R	WS F1 0-15 FT
	2,4-Dinitrophenol	0 %/0 %	30 % to 130 %	R	
	4,6-Dinitro-2-methylphenol	19 %/15 %	30 % to 130 %	UJ	
WSH 1 0-15	Hexachlorocyclopentadiene	35 %/24 %	30 % to 130 %	UJ	WSH 1 0-15
	2,4-Dinitrophenol	14 %/7 %	30 % to 130 %	R	
WS J4	Hexachlorocyclopentadiene	23 %/24 %	30 % to 130 %	UJ	WS J4
	2,4-Dinitrophenol	0 %/0 %	30 % to 130 %	R	
	Atrazine	0 %/0 %	30 % to 130 %	R	
WS-D3	2,4-Dinitrophenol	0 %/0 %	30 % to 130 %	R	WS-D3
	4-Nitrophenol	0 %/13 %	30 % to 130 %	R	
	4,6-Dinitro-2-methylphenol	0 %/0 %	30 % to 130 %	R	
	Atrazine	0 %/0 %	30 % to 130 %	R	

Field Duplicate Analysis

Field duplicate criterion requires the relative percent difference (RPD) between duplicate analyses to be less than 35 percent (50 percent for soil samples). Qualification of sample results included the approximation of data for compounds with RPD values greater than 50 percent. Samples qualified due to laboratory duplicate analysis deviations are tabulated below.

Table 15: Semivolatile Organics Analyses - Field Duplicate Deviations

Duplicate Sample ID	Original Sample ID	Compound	RPD	Qualifier	Affected Samples
WS-D3 DUP	WS-D3	Phenanthrene	200 %	J, UJ	WS-S-1
		Fluoranthene	200 %	J, UJ	WS-S-2
		Pyrene	200 %	J, UJ	WS-S-4
					WS-E2
					WS-E2 30 FT
					WS-F2
					WS-F2 30 FT
					WS-F3
					WS-F4
					WS-D4
					WS-D3
					WS-DS DUP
					WS-C3A
					WS-C3A 30 FT

Overall Data Assessment

Overall, the laboratory performed semivolatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the exception of 7.4 percent of the data that was rejected due to deviations from calibration, laboratory control sample, and matrix spike criteria. Sample results for several compounds were qualified based on deviations from initial calibration, continuing calibration, laboratory control sample, internal standard recovery, field duplicate analysis, and matrix spike criteria.

2.4 PCBs Analyses

Data validation was performed for sixteen soil sample. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Overall Data Assessment

Overall, the laboratory performed PCB analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes as reported by the laboratory.

2.5 Herbicides/Pesticides Analyses

Data validation was performed for sixteen soil samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Overall Data Assessment

Overall, the laboratory performed herbicide/pesticide analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes as reported by the laboratory.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability, which was calculated separately for each type of analysis, is tabulated below.

Table 16: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
Inorganic Parameters	98.65 %	Sample results for Magnesium for three samples, Potassium for eight samples, and Sodium for twelve samples were rejected due to matrix spike recovery deviations
Volatile Organics	99.97 %	Sample results for 1,1,2,2-Tetrachloroethane for two samples were rejected due to matrix spike recovery deviations
Semivolatile Organics	92.60 %	Sample results for 7.4 percent of the data was rejected due to deviations from calibration, laboratory control sample, and matrix spike criteria
PCBs	100 %	None resulting in the rejection of data
Herbicides/Pesticides	100 %	None resulting in the rejection of data

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, 0.30 percent of the data were qualified for field duplicate criteria deviations and 0.47 percent of the data were qualified for laboratory duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, 1.48 percent of the analytical data were qualified for deviations from matrix spike recovery criteria; none of the data were qualified for surrogate recovery criteria deviations; 1.23 percent of the data were qualified for internal standard recovery criteria deviations; 1.06 percent of the data were qualified for laboratory control sample deviations; and 10.81 percent of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical

data required qualification for holding time deviations and 0.66 percent of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The overall percent usability or completeness of the data was 96.93 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

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Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
1.0	<u>Traffic Reports and Laboratory Narrative</u>			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	<u>Holding Times</u>			
2.1	Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?		X	
3.0	<u>System Monitoring Compound (SMC) Recovery (Form II)</u>			
3.1	Are the VOA SMC Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?		X	
	If yes, were samples re-analyzed?			X
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	<u>Matrix Spikes (Form III)</u>			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?		X	
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
4.3	How many VOA spike recoveries are outside QC limits?			
	Water <u>0</u> out of 70 Soils <u>53</u> out of 70			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			
	Water <u>0</u> out of 70 Soils <u>0</u> out of 70			

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
5.0	<u>Blanks (Form IV)</u>			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil, medium soil), whichever is more frequent?	X		
5.3	Has a VOA method/instrument blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	X		
6.0	<u>Contamination</u>			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for VOAs?	X		
6.2	Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?	X		
6.3	Are there field/rinse/equipment blanks associated with every sample?	X		
7.0	<u>GC/MS Instrument Performance Check (Form V)</u>			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	X		
7.3	Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 95?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	<u>Target Compound List (TCL) Analytes</u>			
8.1	Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.3	Are the response factors shown in the Quant Report?	X		

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
8.4	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution?	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			
8.5	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	X		
8.6	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.7	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.8	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	<u>Tentatively Identified Compounds (TIC)</u>			
9.1	Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	X		
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Blanks?	X		
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?		X	
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?	X		
10.0	<u>Compound Quantitation and Reported Detection Limits</u>			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	<u>Standards Data (GC/MS)</u>			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	<u>GC/MS Initial Calibration (Form VI)</u>			
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the volatile fraction at concentrations of 10, 20, 50, 100, 200 ug/L? Are there separate calibrations for low/med soils and low soil samples?	X		
12.2	Were all low level soil standards, blanks, and samples analyzed by heated purge?	X		
12.3	Are the response factors stable for VOA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.4	Are the RRFs above 0.01?	X		
12.5	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?		X	

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
13.0	<u>GC/MS Continuing Calibration (Form VII)</u>			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the volatile fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any volatile compounds have a %Difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	X		
13.4	Do any volatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?		X	
14.0	<u>Internal Standard (Form VIII)</u>			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?		X	
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	<u>Field Duplicates</u>			
15.1	Were any field duplicates submitted for VOA analysis?	X		

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
1.0	<u>Traffic Reports and Laboratory Narrative</u>			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	<u>Holding Times</u>			
2.1	Have any BNA technical holding times, determined from date of collection to date of extraction, been exceeded?		X	
3.0	<u>System Monitoring Compound (SMC) Recovery (Form II)</u>			
3.1	Are the BNA Surrogate Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
3.2	Are all the BNA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Were two or more base neutral or acid surrogate compound recoveries out of specification for any sample or method blank?		X	
	If yes, were samples re-analyzed?		X	
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	<u>Matrix Spikes (Form III)</u>			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	X		
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?	X		
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
4.3	How many BNA spike recoveries are outside QC limits?			
	Water <u>0</u> out of 73 Soils <u>22</u> out of 73			

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits? Water <u> 0 </u> out of 73 Soils <u> 0 </u> out of 73			
5.0	<u>Blanks (Form IV)</u>			
5.1	Is the Method Blank Summary (Form IV) present?	<u> X </u>	<u> </u>	<u> </u>
5.2	Frequency of Analysis: Has a reagent/method blank analysis been reported per 20 samples of a similar matrix, or concentration level, for each extraction batch?	<u> X </u>	<u> </u>	<u> </u>
5.3	Has a BNA method blank been analyzed for each GC/MS system used?	<u> X </u>	<u> </u>	<u> </u>
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for BNAs?	<u> X </u>	<u> </u>	<u> </u>
6.0	<u>Contamination</u>			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for BNAs?	<u> </u>	<u> X </u>	<u> </u>
6.2	Do any field/rinse blanks have positive BNA results (TCL and/or TIC)?	<u> </u>	<u> X </u>	<u> </u>
6.3	Are there field/rinse/equipment blanks associated with every sample?	<u> X </u>	<u> </u>	<u> </u>
7.0	<u>GC/MS Instrument Performance Check (Form V)</u>			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Decafluorotriphenylphosphine (DFTPP)?	<u> X </u>	<u> </u>	<u> </u>
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the DFTPP provided for each twelve-hour shift?	<u> X </u>	<u> </u>	<u> </u>
7.3	Has an instrument performance check solution been analyzed for every twelve hours of sample analysis per instrument?	<u> X </u>	<u> </u>	<u> </u>
7.4	Have the ion abundances been normalized to m/z 198?	<u> X </u>	<u> </u>	<u> </u>
7.5	Have the ion abundance criteria been met for each instrument used?	<u> X </u>	<u> </u>	<u> </u>
7.6	Are there any transcription/calculation errors between mass lists and Form V's?	<u> </u>	<u> X </u>	<u> </u>
7.7	Have the appropriate number of significant figures (two) been reported?	<u> X </u>	<u> </u>	<u> </u>
7.8	Are the spectra of the mass calibration compound acceptable?	<u> X </u>	<u> </u>	<u> </u>
8.0	<u>Target Compound List (TCL) Analytes</u>			
8.1	Are the Organic Analysis Data Sheets (Form I BNA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	<u> X </u>	<u> </u>	<u> </u>
	b. Matrix spikes and matrix spike duplicates?	<u> X </u>	<u> </u>	<u> </u>
	c. Blanks?	<u> X </u>	<u> </u>	<u> </u>
8.2	Has GPC cleanup been performed on all soil/sediment sample extracts?	<u> </u>	<u> </u>	<u> X </u>
8.3	Are the BNA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
	a. Samples and/or fractions as appropriate?	<u>X</u>	<u> </u>	<u> </u>
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	<u>X</u>	<u> </u>	<u> </u>
	c. Blanks?	<u>X</u>	<u> </u>	<u> </u>
8.4	Are the response factors shown in the Quant Report?	<u>X</u>	<u> </u>	<u> </u>
8.5	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	<u>X</u>	<u> </u>	<u> </u>
	Resolution	<u>X</u>	<u> </u>	<u> </u>
	Peak shape?	<u>X</u>	<u> </u>	<u> </u>
	Full-scale graph (attenuation)?	<u>X</u>	<u> </u>	<u> </u>
	Other:			
8.6	Are the lab-generated standard mass spectra of identified BNA compounds present for each sample?	<u>X</u>	<u> </u>	<u> </u>
8.7	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	<u>X</u>	<u> </u>	<u> </u>
8.8	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	<u>X</u>	<u> </u>	<u> </u>
8.9	Do sample and standard relative ion intensities agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
9.0	<u>Tentatively Identified Compounds (TIC)</u>			
9.1	Are all Tentatively Identified Compound Forms (Form I, Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	<u>X</u>	<u> </u>	<u> </u>
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	<u>X</u>	<u> </u>	<u> </u>
	b. Blanks?	<u>X</u>	<u> </u>	<u> </u>
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?	<u> </u>	<u>X</u>	<u> </u>
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	<u>X</u>	<u> </u>	<u> </u>
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?	<u>X</u>	<u> </u>	<u> </u>
10.0	<u>Compound Quantitation and Reported Detection Limits</u>			
10.1	Are there any transcription/calculation errors in Form I results?	<u> </u>	<u>X</u>	<u> </u>
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
11.0	<u>Standards Data (GC/MS)</u>			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	<u>X</u>	<u> </u>	<u> </u>
12.0	<u>GC/MS Initial Calibration (Form VI)</u>			

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the BNA fraction ?	<u>X</u>	<u> </u>	<u> </u>
12.2	Are response factors stable for BNA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)	<u> </u>	<u>X</u>	<u> </u>
12.3	Are all BNA compound RRFs > 0.01?	<u>X</u>	<u> </u>	<u> </u>
12.4	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?	<u>X</u>	<u> </u>	<u> </u>
13.0	<u>GC/MS Continuing Calibration (Form VII)</u>			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the BNA fraction?	<u>X</u>	<u> </u>	<u> </u>
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
13.3	Do any semivolatile compounds have a %Difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	<u>X</u>	<u> </u>	<u> </u>
13.4	Do any semivolatile compounds have a RRF <0.01?	<u> </u>	<u>X</u>	<u> </u>
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?	<u>X</u>	<u> </u>	<u> </u>
14.0	<u>Internal Standard (Form VIII)</u>			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?	<u> </u>	<u>X</u>	<u> </u>
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	<u>X</u>	<u> </u>	<u> </u>
15.0	<u>Field Duplicates</u>			
15.1	Were any field duplicates submitted for BNA analysis?	<u>X</u>	<u> </u>	<u> </u>

Data Validation Checklist - Part C: Herbicides/Pesticides/PCB Analysis

No:	Parameter	YES	NO	N/A
1.0	<u>Traffic Reports and Laboratory Narrative</u>			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or SDG Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?	X		
2.0	<u>Holding Times</u>			
2.1	Have any PEST/PCB technical holding times, determined from date of collection to date of extraction, been exceeded?		X	
3.0	<u>System Monitoring Compound (SMC) Recovery (Form II)</u>			
3.1	Are the PEST/PCB Surrogate Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Soil	X		
3.2	Are all the PEST/PCB samples listed on the appropriate Surrogate Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Soil	X		
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Were surrogate recoveries of TCX or DCB outside of the contract specifications for any sample or method blank? (60-150%)	X		
3.5	Were surrogate retention times (RT) within the windows established during the initial 3-point analysis of Individual Standard Mixture A?	X		
3.6	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	<u>Matrix Spikes (Form III)</u>			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	X		
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?	X		
	a. Low Water	X		
	b. Soil	X		
4.3	How many PEST/PCB spike recoveries are outside QC limits? Water <u> 0 </u> out of 37 Soils <u> 0 </u> out of 37			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits? Water <u> 0 </u> out of 37 Soils <u> 0 </u> out of 37			
5.0	<u>Blanks (Form IV)</u>			
5.1	Is the Method Blank Summary (Form IV) present?	X		

Data Validation Checklist - Part C: Herbicides/Pesticides/PCB Analysis

No:	Parameter	YES	NO	N/A
5.2	Frequency of Analysis: For the analysis of Pesticide/PCB TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix or concentration or each extraction batch, whichever is more frequent?	X		
5.3	Has a PEST/PCB instrument blank been analyzed at the beginning of every 12 hr. period following the initial calibration sequence?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for PEST/PCBs?	X		
6.0	<u>Contamination</u>			
6.1	Do any method/instrument/reagent blanks have positive results PEST/PCBs?		X	
6.2	Do any field/rinse blanks have positive PEST/PCB results?		X	
6.3	Are there field/rinse/equipment blanks associated with every sample?		X	
7.0	<u>Calibration and GC Performance</u>			
7.1	Are the following Gas Chromatograms and Data Systems Printouts for both columns present for all samples, blanks, MS/MSD?			
	a. Peak resolution check	X		
	b. Performance evaluation mixtures	X		
	c. Aroclor 1016/1260	X		
	d. Aroclors 1221, 1232, 1242, 1248, 1254, 1262, 1268	X		
	e. Toxaphene	X		
	f. Low points individual mixtures A & B	X		
	g. Med points individual mixtures A & B	X		
	h. High points individual mixtures A & B	X		
	I. Instrument blanks	X		
7.2	Are Forms VI - PEST 1-4 present and complete for each column and each analytical sequence?	X		
7.3	Are there any transcription/calculation errors between raw data and Forms VI?		X	
7.4	Do all standard retention times, including each pesticide in each level of Individual Mixtures A & B, fall within the windows established during the initial calibration analytical sequence?	X		
7.5	Are the linearity criteria for the initial analyses of Individual Standards A & B within limits for both columns?	X		
7.6	Is the resolution between any two adjacent peaks in the Resolution Check Mixture > 60.0% for both columns?	X		
7.7	Is Form VII - Pest-1 present and complete for each Performance Evaluation Mixture analyzed during the analytical sequence for both columns?	X		
7.8	Has the individual %breakdown exceeded 20.0% on either column?		X	
	- for 4,4' - DDT?		X	
	- for endrin?		X	

Data Validation Checklist - Part C: Herbicides/Pesticides/PCB Analysis

No:	Parameter	YES	NO	N/A
	Has the combined %breakdown for 4,4' - DDT/Endrin exceeded 30.0% on either column?		X	
7.9	Are the relative percent difference (RPD) values for all PEM analytes <25.0%?	X		
7.10	Have all samples been injected within a 12 hr. Period beginning with the injection of an Instrument Blank?	X		
7.11	Is Form VII - Pest-2 present and complete for each INDA and INDB Verification Calibration analyzed?	X		
7.12	Are there any transcription/calculation errors between raw data and Form VII - Pest-2?		X	
7.13	Do all standard retention times for each INDA and INDB Verification Calibration fall within the windows established by the initial calibration sequence?	X		
7.14	Are the RPD values for all verification calibration standard compounds <25.0%?		X	
8.0	<u>Analytical Sequence Check (Form VIII-PEST)</u>			
8.1	Is Form VIII present and complete for each column and each period of analyses?	X		
8.2	Was the proper analytical sequence followed for each initial calibration and subsequent analyses?	X		
9.0	<u>Cleanup Efficiency Verification (Form IX)</u>			
9.1	Is Form IX - Pest-1 present and complete for each lot of Florisil Cartridges used?	X		
9.2	Are all samples listed on the Pesticide Florisil Cartridge Check Form?	X		
9.3	If GPC Cleanup was performed, is Form IX - Pest-2 present?		X	
9.4	Are percent recoveries (%R) of the pesticide and surrogate compounds used to check the efficiency of the cleanup procedures within QC limits:			
	80-120% for florisil cartridge check?	X		
	80-110% for GPC calibration?			X
10.0	<u>Pesticide/PCB Identification</u>			
10.1	Is Form X complete for every sample in which a pesticide or PCB was detected?	X		
10.2	Are there any transcription/calculation errors between raw data and Forms 6E, 6G, 7E, 7D, 8D, 9A, 9B, 10A?		X	
10.3	Are retention times (RT) of the sample compounds within the established windows for both analyses?	X		
10.4	Is the percent difference (%D) calculated for the positive sample results on the two GC columns < 25.0%?		X	
10.5	Check chromatograms for false negatives, especially the multiple peak compounds toxaphene and PCBs. Were there any false negatives?		X	
11.0	<u>Compound Quantitation and Reported Detection Limits</u>			
11.1	Are there any transcription/calculation errors in Form I results?		X	
11.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, %moisture?	X		
12.0	<u>Chromatogram Quality</u>			
12.1	Were baselines stable?	X		

Data Validation Checklist - Part C: Herbicides/Pesticides/PCB Analysis

No:	Parameter	YES	NO	N/A
12.2	Were any electropositive displacement (negative peaks) or unusual peaks seen?	_____	<u> X </u>	_____
13.0	<u>Field Duplicates</u>			
13.1	Were any field duplicates submitted for PEST/PCB analysis?	<u> X </u>	_____	_____

Data Validation Checklist - Part D: Metals Analyses

No:	Parameter	YES	NO	N/A
1.0	<u>Form I to IX</u>			
1.1	Are all the Form I through Form IX labeled with:			
	Laboratory Name?	<u>X</u>	<u> </u>	<u> </u>
	Case/SAS No.?	<u> </u>	<u>X</u>	<u> </u>
	EPA sample No.?	<u> </u>	<u>X</u>	<u> </u>
	SDG No.?	<u>X</u>	<u> </u>	<u> </u>
	Contract No.?	<u>X</u>	<u> </u>	<u> </u>
	Correct units?	<u>X</u>	<u> </u>	<u> </u>
	Matrix?	<u>X</u>	<u> </u>	<u> </u>
1.2	Do any computer/transcription errors exceed 10% of reported values on Forms I-IX for:			
	A. All analytes analyzed by ICP?	<u> </u>	<u>X</u>	<u> </u>
	B. All analytes analyzed by GFAA?	<u> </u>	<u> </u>	<u>X</u>
	C. All analytes analyzed by AA Flame?	<u> </u>	<u> </u>	<u>X</u>
	D. Mercury?	<u> </u>	<u>X</u>	<u> </u>
	E. Cyanide?	<u> </u>	<u> </u>	<u>X</u>
2.0	<u>Raw Data</u>			
2.1	Digestion Log for flame AA/ICP (Form XIII) present?	<u>X</u>	<u> </u>	<u> </u>
2.2	Digestion Log for furnace AA (Form XIII) present?	<u> </u>	<u> </u>	<u>X</u>
2.3	Distillation Log for mercury (Form XIII) present?	<u>X</u>	<u> </u>	<u> </u>
2.4	Distillation Log for cyanides (Form XIII) present?	<u> </u>	<u> </u>	<u>X</u>
2.5	Are pH values (pH<2 for all metals, pH>12 for cyanide) present?	<u>X</u>	<u> </u>	<u> </u>
2.6	Percent solids calculation dates present on sample preparation logs/bench sheets?	<u>X</u>	<u> </u>	<u> </u>
2.7	Are preparation dates present on sample preparation logs/bench sheets?	<u>X</u>	<u> </u>	<u> </u>
2.8	Measurement read out record present?			
	A. ICP	<u>X</u>	<u> </u>	<u> </u>
	B. Flame AA	<u> </u>	<u> </u>	<u>X</u>
	C. Furnace AA	<u> </u>	<u> </u>	<u>X</u>
	D. Mercury	<u>X</u>	<u> </u>	<u> </u>
	E. Cyanides	<u> </u>	<u> </u>	<u>X</u>
2.9	Are all raw data to support all sample analyses and QC operations present?	<u> </u>	<u> </u>	<u>X</u>
3.0	<u>Holding Times</u>			
3.1	A. Mercury analysis (28 days) exceeded?	<u> </u>	<u>X</u>	<u> </u>
	B. Cyanide distillation (14 days) exceeded?	<u> </u>	<u> </u>	<u>X</u>
	C. Other Metals analysis (6 months) exceeded?	<u> </u>	<u>X</u>	<u> </u>
3.2	Is pH of aqueous samples for:			
	A. Metals Analysis >2?	<u> </u>	<u>X</u>	<u> </u>

Data Validation Checklist - Part D: Metals Analyses

No:	Parameter	YES	NO	N/A
	B. Cyanides Analysis <12?			X
4.0	<u>Form I (Final Data)</u>			
4.1	Are all Forms I's present and complete?	X		
4.2	Are correct units (ug/l for waters and mg/kg for soils) indicated on Form I's?	X		
4.3	Are soil sample results for each parameter corrected for percent solids?	X		
4.4	Are all "less than IDL" values properly coded with "U"?	X		
4.5	Are the correct concentration qualifiers used with final data?	X		
4.6	Are EPA sample #s and corresponding laboratory sample ID #s the same as on the Cover Page, Form I's and in the raw data?	X		
4.7	Was a brief physical description of samples given on Form I's?	X		
4.8	Was the dilution of any sample diluted beyond the requirements of the contract noted on Form I or Form XIV?		X	
5.0	<u>Calibration</u>			
5.1	Is record of at least 2 point calibration present for ICP analysis?	X		
5.2	Is record of 5 point calibration present for Hg analysis?	X		
5.3	Is record of 4 point calibration present for:			X
	Flame AA?			X
	Furnace AA?			X
	Cyanides?			X
5.4	Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	X		
5.5	Is correlation coefficient less than 0.995 for:			
	Mercury Analysis?	X		
	Cyanide Analysis?			X
	Atomic Absorption Analysis?			X
5.6	In the instance where less than 4 standards are measured in absorbance (or peak area, peak height, etc.) Mode, are remaining standards analyzed in concentration mode immediately after calibration within +/- 10% of the true values?			X
6.0	<u>Form II A (Initial and Continuing Calibration Verification)</u>			
6.1	Present and complete for every metal and cyanide?	X		
6.2	Present and complete for AA ICP when both are used for the same analyte?			X
6.3	Are all calibration standards (initial and continuing) within control limits:			
	Metals - 90 - 110 %R	X		
	Hg - 80 - 120 %R	X		
	Cyanides - 85 - 115 %R			X
6.4	Was continuing calibration performed every 10 samples or every 2 hours?	X		
6.5	Was ICV for cyanides distilled?			X

Data Validation Checklist - Part D: Metals Analyses

No:	Parameter	YES	NO	N/A
7.0	<u>Form II B (CRDL Standards for AA and ICP)</u>			
7.1	Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	<u>X</u>	<u> </u>	<u> </u>
7.2	Was a mid range calibration verification standard distilled and analyzed for cyanide analysis?	<u>X</u>	<u> </u>	<u> </u>
7.3	Was a 2xCRDL (or 2xIDL when IDL>CRDL) analyzed (CRI) for each ICP run?	<u>X</u>	<u> </u>	<u> </u>
7.4	Was CRI analyzed after ICV/ICB and before the final CCV/CCB, and twice every eight hours of ICP run?	<u>X</u>	<u> </u>	<u> </u>
7.5	Are CRA and CRI standards within control limits: Metals 70 – 130 %R?	<u>X</u>	<u> </u>	<u> </u>
7.6	Is mid-range standard within control limits: Cyanide 70 - 130 %R?	<u>X</u>	<u> </u>	<u> </u>
8.0	<u>Form III (Initial and Continuing Calibration Blanks)</u>			
8.1	Present and complete?	<u>X</u>	<u> </u>	<u> </u>
8.2	For both AA and ICP when both are used for the same analyte?	<u> </u>	<u> </u>	<u>X</u>
8.3	Was an initial calibration blank analyzed?	<u>X</u>	<u> </u>	<u> </u>
8.4	Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	<u>X</u>	<u> </u>	<u> </u>
8.5	Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	<u>X</u>	<u> </u>	<u> </u>
8.6	Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?	<u> </u>	<u> </u>	<u>X</u>
9.0	<u>Form III (Preparation Blank)</u>			
9.1	Was one preparation blank analyzed for: each Sample Delivery Group?	<u>X</u>	<u> </u>	<u> </u>
9.2	Is concentration of preparation blank value greater than the CRDL when IDL is less than or equal to CRDL?	<u> </u>	<u>X</u>	<u> </u>
9.3	If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the preparation blank?	<u> </u>	<u> </u>	<u>X</u>
9.4	Is concentration of preparation blank value (Form III) less than two times IDL, when IDL is greater than CRDL?	<u> </u>	<u> </u>	<u>X</u>
9.5	Is concentration of preparation blank below the negative CRDL?	<u> </u>	<u>X</u>	<u> </u>
10.0	<u>Form IV (Interference Check Sample)</u>			
10.1	Present and Complete?	<u>X</u>	<u> </u>	<u> </u>
10.2	Are all Interference Check Sample results inside the control limits (+/- 20%)?	<u>X</u>	<u> </u>	<u> </u>
10.3	If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?	<u> </u>	<u> </u>	<u>X</u>
11.0	<u>Form V A (Spiked Sample recovery - Pre-Digestion/Pre-Distillation)</u>			
11.1	Present and complete for:			
	each SDG?	<u>X</u>	<u> </u>	<u> </u>
	each matrix type?	<u>X</u>	<u> </u>	<u> </u>
	each concentration range (i.e., low, medium, high)?	<u>X</u>	<u> </u>	<u> </u>

Data Validation Checklist - Part D: Metals Analyses

No:	Parameter	YES	NO	N/A
	For both AA and ICP when both are used for the same analyte?	☐	☐	☒
11.2	Was field blank used for spiked sample?	☐	☒	☐
11.3	Are all recoveries within control limits?	☐	☒	☐
11.4	If no, is sample concentration greater than or equal to four times spike concentration?	☒	☐	☐
12.0	<u>Form VI (Lab Duplicates)</u>			
12.1	Present and complete for :			
	each SDG?	☒	☐	☐
	each matrix type?	☒	☐	☐
	each concentration range (i.e., low, medium, high)?	☒	☐	☐
	both AA and ICP when both are used for the same analyte?	☐	☐	☒
12.2	Was field blank used for duplicate analysis?	☐	☒	☐
12.3	Are all values within control limits (RPD 20% or difference $\leq \pm \text{CRDL}$)?	☐	☒	☐
12.4	If no, are all results outside the control limits flagged with an * on Form I's and VI?	☐	☐	☒
13.0	<u>Field Duplicates</u>			
13.1	Were field duplicates analyzed?	☒	☐	☐
13.2	<u>Aqueous</u>			
	Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?	☐	☒	☐
	Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?	☐	☒	☐
13.3	<u>Soil/Sediment</u>			
	Is any RPD (where sample and duplicate are both greater than 5 times CRDL): $>100\%$?	☐	☒	☐
	Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL): $>2x \text{ CRDL}$?	☐	☒	☐
14.0	<u>Form VII (Laboratory Control Sample)</u>			
14.1	Was one LCS prepared and analyzed for:			
	each SDG?	☒	☐	☐
	each batch samples digested/distilled?	☒	☐	☐
	both AA and ICP when both are used for the same analyte?	☐	☐	☒
14.2	<u>Aqueous LCS</u>			
	Is any LCS recovery:			
	less than 50%?	☐	☒	☐
	between 50% and 79%?	☐	☒	☐
	between 121% and 150%?	☐	☒	☐
	greater than 150%?	☐	☒	☐
14.3	<u>Solid LCS</u>			
	Is LCS "Found" value higher than the control limits on Form VII?	☐	☒	☐

Data Validation Checklist - Part D: Metals Analyses

No:	Parameter	YES	NO	N/A
	Is LCS "Found" value lower than the control limits on Form VII?	☐	☒	☐
15.0	<u>Form IX (ICP Serial Dilution)</u>			
15.1	Was serial dilution analysis performed for:			
	each SDG?	☒	☐	☐
	each matrix type?	☒	☐	☐
	each concentration range (i.e., low, medium, high)?	☒	☐	☐
15.2	Was field blank(s) used for Serial Dilution Analysis?	☐	☒	☐
15.3	Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater?	☐	☐	☒
15.4	Are any %difference values:			
	>10%	☐	☒	☐
	>=100%	☐	☒	☐
16.0	<u>Furnace Atomic Absorption (AA) QC Analysis</u>			
16.1	Are duplicate injections present in furnace raw data for each sample analyzed by GFAA?	☐	☐	☒
16.2	Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or Coefficient of Variation (CV) for concentration greater than CRDL?	☐	☐	☒
16.3	Was a dilution analyzed for sample with analytical spike recovery less than 40%?	☐	☐	☒
16.4	Is analytical spike recovery outside the control limits (85 - 115%) for any sample?	☐	☐	☒
17.0	<u>Form VIII (Method of Standard Addition Results)</u>			
17.1	Present?	☐	☐	☒
17.2	If no, is any Form I result coded with "S" or a "+"?	☐	☐	☒
17.3	Is coefficient of correlation for MSA less than 0.990 for any sample?	☐	☐	☒
17.4	Was MSA required for any sample but not performed?	☐	☐	☒
17.5	Is coefficient of correlation for MSA less than 0.995?	☐	☐	☒
17.6	Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?	☐	☐	☒
17.7	Was proper Quantitation procedure followed correctly as outlined in the SOW on page E-23?	☐	☐	☒
18.0	<u>Dissolved/Total or Inorganic/Total Analytes</u>			
18.1	Were any analyses performed for dissolved as well as total analytes on the same sample(s)?	☐	☒	☐
18.2	Were any analyses performed for inorganic as well as total (organic and inorganic) analytes on the same sample(s)?	☒	☐	☐
18.3	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 10%?	☐	☒	☐
18.4	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 50%?	☐	☒	☐

Data Validation Checklist - Part D: Metals Analyses

No:	Parameter	YES	NO	N/A
19.0	<u>Form I (Field Blank)</u>			
19.1	Is field blank concentration less than CRDL (or 2 x IDL when IDL>CRDL) for all parameters of associated aqueous and soil samples?	X		
19.2	If no, was field blank value already rejected due to other QC criteria?			X
20.0	<u>Form X, XI, XII (Verification of Instrumental Parameters)</u>			
20.1	Is verification report present for:			
	Instrument Detection Limits (quarterly)?	X		
	ICP Interelement Correction Factors (annually)?	X		
	ICP Linear Ranges (quarterly)?	X		
21.0	<u>Form X (Instrument Detection Limits)</u>			
21.1	Are IDLs present for:			
	all the analytes?	X		
	all the instruments used?	X		
	For both AA and ICP when both are used for the same analyte?			X
21.2	Is IDL greater than CRDL for any analytes?		X	
21.3	If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRDL, greater than 5 x IDL?			X
22.0	<u>Form XI (Linear Ranges)</u>			
22.1	Was any sample result higher than the high linear range of ICP?		X	
22.2	Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
22.3	If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
23.0	<u>Percent Solids of Sediments</u>			
23.1	Are percent solids in sediment(s):			
	<50%?		X	
	<10%?		X	

Appendix L

Qualitative Human Health Exposure Assessment



Quantitative Human Health Exposure Assessment

**Privileged and Confidential Information
Disclose Only to Authorized Parties**

Conducted At:

Huxley Envelope Site
145 West Street
Greenpoint, New York 11222
Brownfield Cleanup Program Site #C224147

Prepared For:

145 West Street LLC
235 Park Avenue South, 8th floor
New York, NY 10003

Prepared By:

Galli Engineering, PC
734 Walt Whitman Rd., Suite 402A
Melville, NY 11747

December 14, 2012

Richard D. Galli

Date

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1.0 Introduction

This Qualitative Human Health Exposure Assessment has been prepared by Galli Engineering, P.C. (Galli) on behalf of 145 West Street, LLC in order to evaluate potential human exposure pathways and identify human populations who may potentially be exposed to on-site contaminants. This report is part of the scope of work presented with the Remedial Investigation Report prepared for the site by Galli Engineering, P.C. dated December 14, 2012.

The project location and surrounding vicinity are shown on Figure 1 – Site Vicinity Map. The project Site includes the entire city block bounded by Huron Street, West Street, India Street, and the East River, in Brooklyn, NY. The Site consists of approximately 2.83 acres, with title currently held by 145 West Street LLC (Block 2530 Lot 1) and 157-159 West Street, LLC (Block 2530 Lots 55 and 56). It is important to note that while only 145 West Street, LLC is the BCP Volunteer, members in 157-159 West Street, LLC are identical, and the parcels owned by this entity will eventually be transferred to 145 West Street, LLC.

The overall purpose of the Qualitative Human Health Exposure Assessment is to evaluate and document how people might be exposed to site-related contaminants, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the site. To evaluate if an exposure pathway exists, the exposure assessment must assess the quality, representativeness and adequacy of the available data. Available data may include field data and laboratory data.

In addition, the qualitative exposure assessment considers the nature of populations currently exposed or which have the potential to be exposed to site related contaminants both on and off site, and describes the reasonably anticipated future land use of the site and affected off-site areas.

This assessment has considered all known contamination at the Site and evaluated the potential for people to come in contact with this contamination.

The objectives of the assessment are:

- To identify chemicals of concern (COCs) that are related to the site
- To identify potential pathways of exposure to the exposed population
- To characterize the receptor populations who may be exposed to contaminants
- To indicate the need for mitigative measures to reduce potential exposures

This assessment has been prepared in accordance with DER-10, Technical Guidance for Site Investigation and Remediation, New York State Department of Environmental Conservation, Division of Environmental Remediation, May 2010, Appendix 3B (New York State Department of Health, Qualitative Human Health Exposure Assessment).

In order to determine if a Fish and Wildlife Resources Impact Analysis would be required, the table from Appendix 3C (Fish and Wildlife Resources Impact Analysis Decision Key, DER-10, May 2010) was utilized. Based on this table, it was determined that this analysis would not be needed for this site.

This assessment used data collected in previous environmental investigations of the site, as described in Section 2.4 of this report.

2.0 Site Background and Setting

2.1 Site Location and Description

The site is an approximately 123,000 square foot property located at 143-159 West Street in the Greenpoint section of the Borough of Brooklyn, New York. The Brownfield Cleanup Program Site (BCP Site) consists of the entire city block bounded by Huron Street, West Street, India Street, and the East River, in Brooklyn, NY.

The site encompasses the parcels identified on the New York City Tax assessor's maps as Tax Block 2530, Lots 1, 55 and 56. The lots are comprised of a single-story vacant

warehouse building and rear asphalt-paved loading area at 143-155 West Street (Lot 1) and two two-story buildings at 157 West Street (Lot 56) and 159 West Street (Lot 55). The building at 159 West Street also contains a basement.

Lot 1 contains a single-story warehouse building (approx. 96,000 sf), constructed about 1970. The site is now inactive, but was occupied from 1995 through about 2006 by Variety Accessories, Inc., a maker of holiday decorations and ornaments. From 1970 through 1995, it was occupied by Huxley Envelope Corp., an envelope manufacturer. Prior to that, the lot contained four one-story office buildings and an adjoining lumber yard. A 20,000-gallon heating oil UST was closed in place in 1994 (Langan) when the facility switched to gas. Langan was provided with spill and tank closure documentation from DEC.

Lot 55 (159 West Street) contained a seafood distribution facility, approximately 2,500 sf, which includes a loading area and refrigerated storage units on the ground floor, an office on the second floor, and a storage area in the basement. The building was constructed in 1931.

The project site is located in the area which was rezoned in 2005 through the Greenpoint-Williamsburg Rezoning. Pursuant to this rezoning, waterfront blocks in Greenpoint Williamsburg are subject to the Zoning Resolution's Article VI, Chapter 2, Special Regulations Applying in the Waterfront Area (the "Waterfront Regulations"), including the specific requirements of ZR Section 62-831, the BK-1 Waterfront Access Plan (WAP) for Greenpoint-Williamsburg. Together, the WAP and the rezoning are facilitating a gradual transition in the area's character, with a reduction in underutilized warehouse, storage and auto-related space and an increase in residential, retail, and community facility space. The rezoning will also facilitate the development of a public shore walkway located along the East River waterfront.

The project site was Potential Development Site #34 in the Greenpoint Williamsburg Rezoning FEIS. As part of that rezoning project, an "E" designation was placed on the blocks comprising the proposed project site, which require that a testing and sampling

protocol be conducted, as well as window wall attenuation for the project site (Block 2530, lots 1, 55 and 56).

The project site is located within the City's designated coastal zone. The project site is adjacent to a National Wetland Inventory (NWI) mapped tidal wetland. The shoreline along the project site consists primarily of urban bulkhead and the outfall for the Newtown Creek WPCP. This type of urban structural shoreline significantly limits the potential for higher quality tidal wetlands such as tidal marsh or submerged aquatic vegetation.

For the purposes of the qualitative human exposure assessment, the site and surrounding property are considered separately with respect to potential exposure to human populations. Current and potential future exposures occurring within the confines of the site will be referred to as "on-site" exposures. Current and potential future exposures that could potentially occur outside the confines of this area will be referred to as "off-site" exposures.

2.2 Land Use and Demographics

2.2.1 Existing Land Uses within One-Quarter Mile of the Project Site

The approximately 123,363 sf project site is occupied by three buildings: a vacant 95,000 sf 1 to 2-story building previously utilized for manufacturing and storage of Christmas decorations, a vacant 3,359 sf 2-story building and a vacant 3,696 sf 2-story building both used for the manufacturing and storage of wire rope slings.

Predominant land uses within a quarter-mile of the project site include industrial, residential and scattered institutional uses. Industrial and warehousing uses including vehicle open storage and underutilized industrial sites are located to the north and south, along the waterfront, while residential uses dominated by 3 and 4 story multi-family walk

up buildings are located to the east of the project site. Manhattan and Greenpoint Avenues are the two closest commercial corridors to the site containing scattered commercial uses.

Immediately to the north of the project site is a two-story warehouse. Also to the north of the site is the Greenpoint Lumber Exchange Site- a 22-acre waterfront site located between Green and Clay Streets used for vehicle and open storage. To the east of the project site are older multi-family attached residential buildings, a few vacant buildings and vehicle open storage.

There are scattered institutional uses near the project site including the Church of the Ascension and St. Elias Roman Catholic Church, both on Kent Street between Manhattan Avenue and Franklin Street; St. Johns German Lutheran Church on Milton Street between Franklin and Manhattan Avenues; and, the John Smolenski Memorial Democratic Club on Java Street between Franklin and Manhattan Avenues.

As with many formerly industrial areas of New York City, the study area is experiencing a trend toward residential and commercial development. The recent adoption by the City of the Greenpoint-Williamsburg (GW) Rezoning in 2005 is expected to transform Greenpoint into a mixed-use community, with much of the area occupied by primarily residential buildings with commercial uses, including retail and community facilities, and a planned shore walkway on the new waterfront esplanade.

2.2.2 Population

According to the 2010 census for Brooklyn (Kings County), the population was 2,504,700 up approximately 1.6% from the 2000 population of 2,465,326. The 2010 population for Brooklyn Community District #1, in which the project is located was 173,083, an increase of 7.9% from the 2000 population of 160,338. The 2010 population for Census Tract 563, in which the project site is located, was 4,360, a 1.8% decrease from the 2000 population of 4,440. According to the 2010 census, the population of census tract 563 was 59% white, 27% Hispanic, 3.3% Black, 7.7% Asian, 2 % Two or more Races and 1% Other.

According to the 2010 Census, there were 2,128 housing units in census tract 563, and 65,842 total households and an average of 2.61 persons per household in Community District #1. (Sources: U.S. Bureau of the Census, 2000 and 2010 Census of Population and Housing)

Census data for Kings County, Community Board #1 and census tract 563 (and surrounding census tracts) is contained in Appendix A.

2.3 *Physical Setting*

According to the United States Geological Survey (USGS) Brooklyn, N.Y. 7.5-Minute Quadrangle Map, dated 1967 and revised 1979, the elevation of the site is approximately 10 feet above mean sea level. The topography of the site and surrounding area slopes to the West towards the East River.

Pleistocene glacial activity modified the landscapes and surficial features of Brooklyn, Queens, and the remainder of Long Island. The glaciation scoured uplands areas and deposited varying amounts of till (an unsorted mixture of sand, clay and boulders) across the lowlands and valleys.

The area of Brooklyn in which the project site is located is underlain by glacial deposits known as ground moraine. The ground moraine is a widespread dense layer of till material that typically consists of clay, sand and boulders. Bedrock outcrops were not observed on the project site.

Based on results of Langan's 2005 geotechnical investigation of the site, it is underlain with 6 feet of fill material, which consists of sand with gravel, silt, organic material and construction debris. The bottom depth of the fill material increases towards the East River shoreline. The western portion of the property contains a 2 ft to 7 ft thick layer of organic silty clay that underlies the historic fill. A silty sand layer extends from the bottom of the fill and clay to approximately 40 ft to 50 ft below surface grade. The eastern portion of the property also contains a brown clay layer located within or below the silty sand to depths

of about 40 ft below grade. A fine silty sand layer extends from the bottom of the clay and silty sand to the top of decomposed rock between 70 ft and 85 ft below surface grade.

2.3.1 Geology

Brooklyn and Queens at the western end of Long Island are underlain by Cretaceous sedimentary formations consisting of sands and clay that strike northeast and dip gently to the southeast. These formations consist of the Magothy Formation, the Raritan Formation and the Lloyd Sand Member.

Resting unconformably on top of these sands and clays and forming the highest elevation is a belt of glacially deposited debris composed of an unsorted, unstratified mixture of boulders, sand, silt and clay consisting of the Upper Pleistocene deposits, the Gardners Clay and the Jameco Gravel. This debris was deposited during the Pleistocene when the area was covered by a massive glacial ice sheet. In the vicinity of New York, the ice was moving in a generally southerly direction, bringing with it a large load of detached bedrock, sediment and soil that it had scoured from more northerly regions. This debris was deposited at the periphery of the glacier forming a belt of deposits known as a terminal moraine.

Sloping gently southeastward from the edge of the terminal moraine in Brooklyn and Queens is an apron of sediment (outwash plain) that slopes very gently toward the Atlantic Ocean. This rests on the underlying inclined sedimentary layers and was formed through the deposition of sand, silt and clay by streams that are carrying melt waters from edge of the glacier.

2.3.2 Site Bedrock

Bedrock in the area consists of two formations, the Cambro-Ordovician Hartland Formation and the Cambro-Ordovician Ravenswood Granodiorite. Both formations are unconformably overlain by the above glacial and sedimentary deposits. In the subject

area, regional descriptions indicate that the Upper Pleistocene deposits unconformably overlie bedrock and the Cretaceous deposit subcrop appears to the southeast.

According to the USGS Bedrock and Engineering Geologic Maps on New York County and parts of Kings and Queens Counties, dated 1994, the project site straddles a bedrock contact between the Cambrian-Ordovician Ravenswood Granodiorite on the northwest portion of the site and the Hartland Formation on the remainder of the property. The Ravenswood Granodiorite consists of mica-quartz-feldspar gneiss, and the Hartland Formation is characterized by granulite, mica schist and amphibolite. According to a geotechnical investigation performed by Langan in 2005, bedrock at the project site is located between 70 ft and 100 ft below surface grade.

2.3.3 Groundwater

The depths measured to groundwater were found to be 7'-12' in previous investigations. Groundwater flow direction at the Site was generally found to be to the west and in the direction of the East River. There were not enough data or monitoring points from previous investigations to evaluate seasonal groundwater fluctuations and overburden/bedrock groundwater relationships.

2.4 Previous Environmental Investigations

All three lots (Lots 1, 55, and 56) have been designated as sites with potential environmental impacts by New York City Dept. of Environmental Protection ("E" designated sites) because the potential exists, based on documented past use of the properties, for environmental contamination. The "E" designation is a mechanism which ensures that no significant adverse impacts would result from a proposed action because of steps which would be undertaken prior to the development of an "E" overlay zone. The "E" designation would ensure that these identified sites would not be developed unless necessary remedial measures are implemented.

A number of previous investigations have been conducted on the Site. These include an Environmental Site Assessment at 145 West Street (Lot 1), (EEA) November 1994; a Phase I ESA on Lot 1, 155 West Street, (Langan, November 14, 2005; Rev. March 31, 2006); a Phase II ESI Workplan and HASP, Lot 1, 155 West St., (Langan, January 27, 2006); a Phase II ESI Report, Lot 1, 155 West Street, (Langan, May 2, 2006); a Remedial Action Plan and CHASP for Lot 1 (Langan, May 2, 2006); a Phase I on Lots 1, 55, and 56 (Langan, December 1, 2008); and a Phase II Addendum #1 to the May 2, 2006 Phase II, expanded to cover Lots 55 and 56 (Langan, February 25, 2009).

In order to fully delineate the nature and extent of contamination and fill in data gaps from earlier studies, Galli Engineering prepared a Remedial Investigation Workplan. The Workplan was submitted in August, 2011, revised on November 15, 2011 and approved by the NYSDEC in January, 2012. The Remedial Investigation fieldwork for soil sampling and monitoring well installation was conducted from June 1 to June 22, 2012. This work was conducted in accordance with Division of Environmental Remediation Draft Technical Guidance for Site Investigation and Remediation (DER-10).

The Remedial Investigation was conducted in accordance with other documents prepared for the investigation of this site and approved along with the Remedial Investigation Work Plan, including the Citizens Participation Plan (CPP) dated September 2011; the Health and Safety Plan (HASP) dated August 25, 2011; and the Quality Assurance / Project Plan (QAPP), dated November 15, 2011 (revised).

3.0 Qualitative Human Health Exposure Assessment

This human health exposure assessment provides qualitative descriptions of potential exposure to site-related Contaminants of Concern (COCs) for human populations who may reasonably be expected to contact site media under present or future conditions. This qualitative human exposure assessment is comprised the following components:

- Identification of Contaminants of Concern
- Identification of exposure pathways
- Description and identification of potentially exposed populations
- Description of reasonably anticipated future land use of the site and/or affected off-site areas
- Description of elimination/mitigation measures for any unacceptable exposures

3.1 Contaminants of Concern

As noted, all three of the lots (Lots 1, 55, and 56) that make up the Site have been designated as having potential environmental impacts by New York City Department of Environmental Protection (“e” designated sites) because the potential exists, based on documented past use of the properties, for environmental contamination.

The contaminants of concern are based on the laboratory analytical results from environmental media sampled during previous investigations, which include: Volatile organic compounds (VOCs - solvents and total petroleum hydrocarbons), semi-volatile organic compounds (SVOC’s – petroleum chemical compounds), and metals (heavy metals). Additional sample collection and laboratory analysis were conducted for the contaminants of concern during the BCP Remedial Investigation.

Polychlorinated biphenyls (PCB’s) and TCL pesticides were not detected in environmental samples from previous investigations and are not contaminants of concern. However, the previous investigations were limited to certain areas at the Site and the BCP program requires complete Site characterization. Therefore, sample collection and laboratory

analysis for PCB's and TCL pesticides were conducted as part of the proposed Remedial Investigation for the BCP.

3.1.1 Volatile Organic Compounds

Methyl t-Butyl Ether (MtBE)

3.2.2 Semi-Volatile Organic Compounds

Benzo(a)anthracene	Dibenzo(a,h)anthracene
Benzo(a)pyrene	Dibenzofuran
Benzo(b)fluoranthene	Fluoranthene
Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene
Benzo(k)fluoranthene	Phenanthrene
Chrysene	Pyrene

3.2.3 Miscellaneous

Metals

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Cobalt	Selenium
Copper	Sodium
Iron	Thallium
Lead	Zinc
Magnesium	

Fuel Oil

Total Petroleum Hydrocarbons

Table 1 presents an Exposure Assessment Summary Table; Table 2 presents Recognized Environmental Concerns Summary.

The material safety data sheet for each of these chemicals is located in Appendix B.

3.2 Potential Exposure Pathways

The VOC and SVOC chemical compounds detected in soil and groundwater samples from previous investigations included a range of polynuclear aromatic hydrocarbons (PAHs) and total petroleum hydrocarbons. The potential routes of migration for VOC and SVOC contaminants may include the following:

- Volatilization directly from the ground surface into the air;
- Migration vertically from subsurface soils to overburden groundwater; and
- Migration horizontally and vertically through the overburden soil.

Heavy metals detected in soil and groundwater samples from previous investigations on the Site included arsenic, cobalt, lead, mercury, and selenium. The potential routes of migration for metals (heavy metals) may include the following:

- Migration horizontally and vertically through the overburden soil;
- Migration vertically from subsurface soils to overburden groundwater;

Additional information is required to evaluate migration of contaminants within the various potential migration pathways identified above; however, certain assumptions can be made based on the existing information. Spills or releases of petroleum compounds, VOCs, SVOCs, and heavy metals to soil may leach into overburden groundwater. Although some breakdown of contaminants may occur in the subsurface over time, the remaining chemical compounds and metals may migrate vertically through the soils and may impact the groundwater within the bedrock formation. Therefore, the upper-most water bearing zone in the bedrock formation was the zone monitored by the proposed bedrock wells, and

the following environmental media were sampled as part of the Remedial Investigation: surface soils, subsurface soils, and both overburden and bedrock groundwater.

The following contaminants profile provides descriptions of potential exposure pathways for potential current on-site and off-site human populations. No potential exposure pathways have been identified that pose a significant and imminent threat (as identified by 6 NYCRR Part 375) to human health such that an interim remedial measure is required to protect human health.

CONTAMINANTS PROFILE

Chemical	Exposure Route	Symptoms of Overexposure
Arsenic	Inhalation Ingestion Skin Contact	• Stomach ache, nausea, vomiting, diarrhea. • Fatigue, abnormal heart rate. • Skin changes- redness and swelling.
Cobalt	Inhalation Ingestion Skin Contact	• Abdominal discomfort, nausea and/or constipation, diarrhea, • Weakness, muscle pains, irritability, headache. • Dizziness.
Lead	Inhalation Ingestion Skin Contact	• Abdominal discomfort, nausea and/or constipation, diarrhea, metallic taste. • Weakness, muscle pains, irritability, headache. • Dizziness.
Magnesium	Skin Contact	• FLAMMABLE SOLID in metal form • WATER REACTIVE in metal form

Manganese	Inhalation Ingestion Skin Contact	• Cause metal fume fever • Abdominal pain and nausea • Hypoglycemia • Chronic exposure can cause impairment of central nervous system
Mercury	Inhalation Ingestion Skin Contact	• Lung damage, nausea, vomiting, diarrhea. • Increase in blood pressure and/or heart rate. • Skin rash, eye irritation.
Nickel	Skin Contact Inhalation Ingestion	• Skin sensitization, allergic reaction • Nausea, vomiting, diarrhea • Metal fume fever (sever flu like symptoms)
Selenium	Inhalation Ingestion Skin Contact	• Highly toxic via inhalation • Toxic – may be fatal • May cause skin burns
Thallium	Inhalation Ingestion Skin Contact	• HIGHLY TOXIC via all routes in metallic form.
Zinc	Inhalation Ingestion Skin Contact	• Stomach cramps, nausea, diarrhea. • “Metal Fume Fever”. • Skin irritation.
MtBE	Inhalation Ingestion Skin Contact	• Possible Human Carcinogen • Irritating to eyes, nose, and throat • Headaches • Dizziness
PAH's Polycyclic Aromatic Hydrocarbons	Inhalation Ingestion Skin Contact	• Probable Human Carcinogen.

3.3 Potentially Exposed Receptors

3.3.1 Current Scenarios

Because the site is currently occupied by vacant buildings; the only on-site risk for exposure would be for on-site visitors/trespassers. On-site visitors/trespassers have the potential for exposure to surface soil via the ingestion (oral), dermal contact and inhalation exposure pathways. The site is currently accessible, therefore the possibility exists for people to trespass on the site. Once remediation actions commence, the site will be closed off to the public. Authorized on-site personnel are expected to include field personnel involved in site cleanup activities related to the Brownfield Cleanup Program. These workers will engage in protective measures as described in the Health and Safety Plan (HASP) developed by Galli Engineering, P.C. The HASP for this Brownfield Cleanup Program site will ensure that all site activities conform to an integrated and consistent approach which will minimize the danger to human health, the environment, equipment and property, and which will ensure compliance with safety, health and environmental regulations. The primary objective of the HASP is to ensure the well-being of all field personnel and the community surrounding this site during the cleanup of the site.

Current off-site human populations include residences to the east of the project site as well as workers at the industrial facilities located to the north and south of the site.

These populations have the potential for exposure to site-related COCs via ingestion of and dermal contact with surface soil, inhalation of particles and inhalation of vapors in ambient air. The groundwater in the vicinity of the site is not utilized for public drinking water; therefore this is not considered a COC pathway.

3.3.2 Future Scenarios

The proposed future use of the site consists of a new 39-story residential tower with two 5-story wings and a 6-story building totaling 716,981 gross square feet on a 123,363 square foot site. Two levels of above grade parking and ground level commercial and community areas will also be provided. The 39-story tower, a Huron Street wing, and an India Street wing will consist of market rate condo or rental apartments. The West Street building will consist of affordable rental housing and ground floor commercial space.

There are three residential lobbies proposed, a main lobby to the Market Rate Building and main and secondary lobbies to the Affordable Housing. In addition, the Market Rate Building has two entrances/exits from Huron and India Streets for move-in, service, and egress. The Huron and India Street wings will have connections to the main lobby. The elevator/stairs core from these wings will also have egress/exits accessed from the Huron and India Street sidewalks. The 39-story tower lobby will be located on a private drive to be constructed between Huron and India Streets between the building and the River. The lower income rental housing main lobby will be located on India Street and a secondary lobby at Huron Street. There will be a full-time concierge at the Market Rate condominium/rental lobby, and a security guard at the Affordable Housing lobbies, which will allow for 24-hour controlled access. The condominium/rental lobbies at the Market Rate Building and Affordable Housing building will be double height space and will include waiting areas, package rooms, and mail rooms. The security monitoring system with controlled access shall be considered at the affordable housing and Market Rate Building for all unsupervised entrances.

A retail space has been allocated on street level at West Street. In addition to this, the Community and Commercial spaces were allocated on a street level from Huron and India Streets. These areas will be planned as open spaces for the future tenants fit-out. The 19,996 square-foot Commercial Space and the 4,096 square-foot open Community Space would allow for future division of the space and access from sidewalk grade level.

The Second and Third floor of the 39-story tower will house resident amenities, including a Basketball Court on the Second floor and Sun Deck, Swimming Pool, Gym, Sauna, and multi-purpose room on the Third floor. The amenities area will connect to a landscaped terrace on the roof of the parking garage. Many residential units will have balconies or private roof terraces.

The terrace at the roofs of the 5-story part of the Market Rate building will accommodate private terraces. Residents will use a core area stair and elevator for access. The area will include a kitchenette with barbecue stove and counter.

The open deck terrace court and multi-function community space are designed at the Affordable Building. These areas are designed for community and social activities. The terrace has natural plantings and areas for activities, sitting, and games.

The development will include a waterfront promenade and park, accessible to the public during daylight hours via India Street and Huron Street.

Both buildings' design includes implementation of criteria established by US Green Building Council (USGBC) to qualify for a LEED certified rating for Market Rate portions and LEED Certified for Affordable Housing.

3.3.3 Proposed Remediation Actions

Remediation of this Site will be accomplished through a series of steps designed to remove affected source material and to provide structures that will prevent the potential for any remaining contamination from causing a human health concern on the Site or off-site.

The following steps are expected to be included as part of the remediation of the site:

Removal of Source Material – By far, the most important component of the proposed remediation is excavation and removal of nearly all urban fill (a/k/a “Historic Fill”) from the

Site. Excavation required for building foundations and basement will be deep enough to remove any historic fill, leaving only the native fill layer. Endpoint samples collected at depth indicate that cleanup objectives are met in this native material and that the proposed limits of excavation are suitable.

Mud Slab – This slab will extend across the entire building footprint and will serve to displace any groundwater, prevent disturbance of the underlying substrate, and help establish an impermeable cap across the site.

Structural Slab – Will also extend across the entire building footprint, but will serve as a structural component, able to withstand building loads. This slab will provide an accurate base on which to locate all subsequent structural members.

Foundation Walls – Will form the vertical perimeter of the building, leaving only narrow finishing elements (sidewalks, esplanade, etc.) outside the building footprint.

Waterproof Barrier – This barrier is another key component of the final remediation of the Site. The waterproof barrier will be placed above the mud slab (which will serve as an even, level supporting surface) and below the structural slab. The barrier will be applied continuously beneath the structural slab and outside the foundation walls and will extend up to grade. This barrier will not only keep groundwater from entering the lower building levels, but will completely envelope the sub-grade portions of the building and prevent intrusion of any contaminants into this space from underlying soil or groundwater. While Removal Of Source Material (described above) will provide nearly all remediation required to protect Site occupants and surrounding properties, the Waterproof Barrier will serve, literally, as an extra layer of protection.

Dewatering – Dewatering will be required during construction of the basement floor and structures like elevator pits. Dewatering will enable proper placement of the protective structures described above.

Upon commencement of remediation activities, the site will be fenced off and restricted only to authorized personnel. During remedial activities, appropriate measures will be taken to protect on-site and off-site populations. This includes training of all on-site personnel as well as the use of PPE for all workers engaged in remedial activities.

3.3.4 Conclusion

The analytical data presented for the project site confirm that the subject property has been impacted by contaminants that are consistent with the past use of the property. The nature of contaminants detected is not unusual for previously developed urban sites. The analytical data collected as part of the Remedial Investigation conducted by Galli Engineering, P.C. indicate that the impacted soils do not meet the criteria for hazardous waste.

We conclude that the planned excavation and removal of on-site materials will enable the site to meet the Track 1 thresholds (Unrestricted Use: Site can be used for any purpose). At the conclusion of remediation activities on the site, there will be no anticipated exposure risk to populations both on- and off- site.

References

Environmental Site Assessment at 145 West Street (Lot 1), (EEA) November 1994;

Greenpoint-Williamsburg Rezoning FEIS, CEQR # 04DCP003K, Philip Habib & Associates, AKRF, Inc., LMS Engineers LLP, Celia Bergoffen, PhD., HydroQual, Inc. March 4, 2005

Phase II ESI Workplan and HASP, Lot 1, 155 West St., (Langan, January 27, 2006);

Phase I ESA on Lot 1, 155 West Street, (Langan, November 14, 2005; Rev. March 31, 2006);

Phase II ESI Report, Lot 1, 155 West Street, (Langan, May 2, 2006);

Remedial Action Plan and CHASP for Lot 1 (Langan, May 2, 2006);

155 West Street, Environmental Assessment Statement, CEQR No. 08DCP013K, Philip Habib & Associates, August 2007, Revised October 2008

Phase I Environmental Site Assessment, 143-159 West Street, Brooklyn, New York, Langan Engineering & Environmental Services, P.C., December 2008

Phase II Environmental Site Investigation Report, 157 and 159 West Street, Brooklyn, New York, Langan Engineering & Environmental Services, P.C., February 2009

Figures and Tables

Figure 1	Site Vicinity Map
Table 1	Exposure Assessment Summary Table
Table 2	REC Summary



Table 1
Exposure Assessment Summary Table

Environmental Media & Exposure Route	Human Exposure Assessment
Direct contact with surface soils (and incidental ingestion)	• People can come into contact if they trespass on the site • Prior to remediation work, the site will be fenced off, with restricted access • On-site personnel related to remediation work will not come into contact because all workplace precautions will be taken, as outlined in the HASP
Direct contact with subsurface soils (and incidental ingestion)	• People can come into contact with if they complete ground-intrusive work at the site; however on-site personnel related to remediation work will not come into contact because all workplace precautions will be taken, as outlined in the HASP
Ingestion of groundwater	• The area is served by the public water supply; groundwater is not used for drinking water
Direct contact with groundwater	• People can come into contact with if they complete ground-intrusive work at the site; however on-site personnel related to remediation work will not come into contact because all workplace precautions will be taken, as outlined in the HASP
Inhalation of air (exposures related to soil vapor intrusion)	• Personnel engaged in remedial activities will be provided with appropriate Personal Protective Equipment (PPE) • Proposed remedial activities will remove contaminated soil; appropriate testing/monitoring will be completed as part of remedial action

Table 2 – REC Summary

RECOGNIZED ENVIRONMENTAL CONCERN	DATA SOURCE	SUSPECTED CONTAMINANTS
Huxley Envelope Corp. / Variety Accessories, Inc. (Site Wide)	NYCDEP	"E" Designated Site
Solvent Tanks and Painting Area (B-2, B-3)	Langan Phase II 5/2/06	SOIL: PCBs, Mercury, Lead, Benzo(a)Anthracene, Benzo(g,h,i)Perylene, Benzo(a)Pyrene Benzo(k)Fluoranthene, Benzo(b)Fluoranthene Dibenzo(a,h)Anthracene, Chrysene, Indeno(1,2,3-cd)Pyrene
Hazardous Waste Storage Area (B-3)	Langan Phase II 5/2/06	SOIL: Mercury, Lead, Benzo(a)Anthracene, Benzo(a)Pyrene Benzo(b)Fluoranthene Dibenzo(a,h)Anthracene, Chrysene, Indeno(1,2,3-cd)Pyrene
20,000-gal UST Spill #94-08283 & 94-08663 (B-1)	Langan Phase II 5/2/06	SOIL: Mercury, Benzo(a)Pyrene
275-gal AST (B-11)	Langan Phase II 2/25/09	SOIL: Mercury, Lead, Benzo(a)Anthracene, Benzo(g,h,i)Perylene, Benzo(a)Pyrene, Benzo(b)Fluoranthene Dibenzo(a,h)Anthracene, Chrysene, Phenanthrene, Pyrene GROUNDWATER: Misc. metals
Building: 157-159 West St. (B-9 and B-10)	Langan Phase II 2/25/09	SOIL: Mercury, Lead, Benzo(a)Anthracene, Benzo(a)Pyrene Benzo(b)Fluoranthene, Dibenzo(a,h)Anthracene, Chrysene GROUNDWATER: MtBE, Cobalt, Nickel, Thallium
Pit in Floor, 159 West St.		

Table 2 – REC Summary

Stevedore Shop (B-4)	Langan Phase II 5/2/06	SOIL: Mercury, Lead, Benzo(a)Anthracene, Benzo(a)Pyrene Benzo(k)Fluoranthene, Benzo(b)Fluoranthene Dibenzo(a,h)Anthracene, Chrysene, Indeno(1,2,3-cd)Pyrene
Iron Works, 155 West St. (B-6)	Langan Phase II 5/2/06	SOIL: Mercury, Lead, Benzo(a)Anthracene, Benzo(g,h,i)Perylene, Benzo(a)Pyrene Benzo(k)Fluoranthene, Benzo(b)Fluoranthene Dibenzo(a,h)Anthracene, Chrysene, Indeno(1,2,3-cd)Pyrene, Dibenzofuran, Fluoranthrene, Phenanthrene, Pyrene GROUNDWATER: Lead
Devon Lithographics		VOCs, SVOCs, Pigment Metals (Suspected)
Loading Dock (B-7)	Langan Phase II 5/2/06	SOIL: Mercury GROUNDWATER: Mercury, Lead
Storage Area (B-4, B-5, B-6)	Langan Phase II 5/2/06	Mercury, Lead, Benzo(a)Anthracene, Benzo(g,h,i)Perylene, Benzo(a)Pyrene Benzo(k)Fluoranthene, Benzo(b)Fluoranthene Dibenzo(a,h)Anthracene, Chrysene, Indeno(1,2,3-cd)Pyrene, Dibenzofuran, Fluoranthrene, Phenanthrene, Pyrene GROUNDWATER: Lead

Appendix A

Census Data

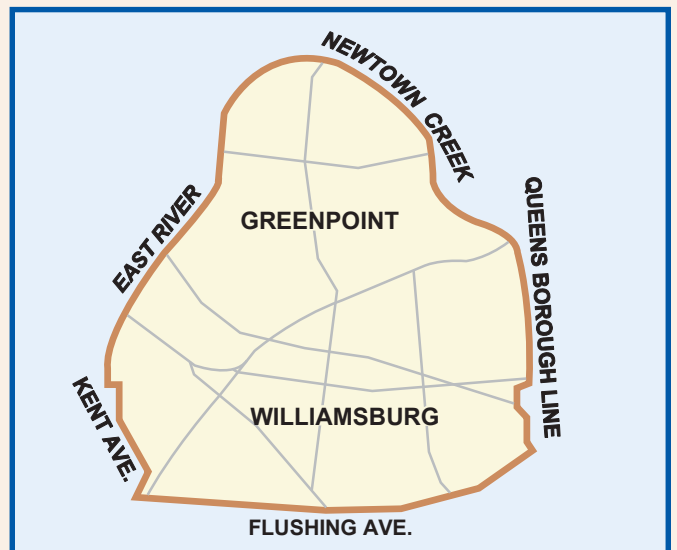
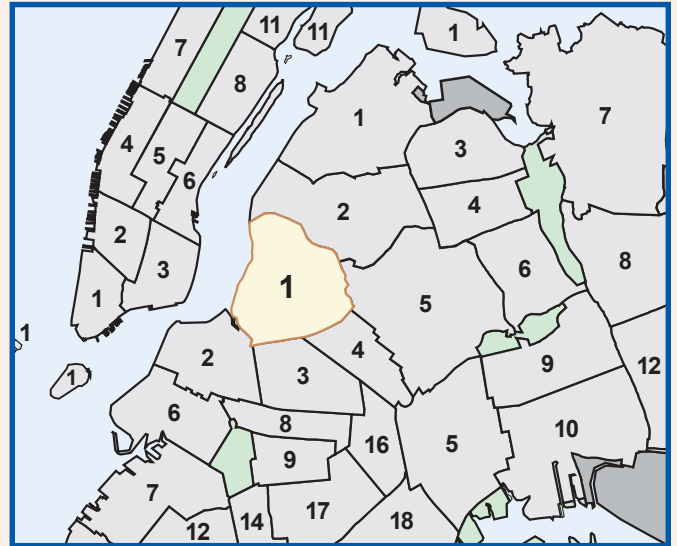
BROOKLYN COMMUNITY DISTRICT 1

TOTAL POPULATION	1990	2000	2010
Number	155,972	160,338	173,083
% Change	—	2.8	7.9

VITAL STATISTICS	2005	2009
Births: Number	3,062	3,423
Rate per 1000	19.1	19.8
Deaths: Number	886	852
Rate per 1000	5.5	4.9
Infant Mortality: Number	12	—
Rate per 1000	3.9	2.0

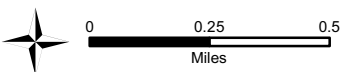
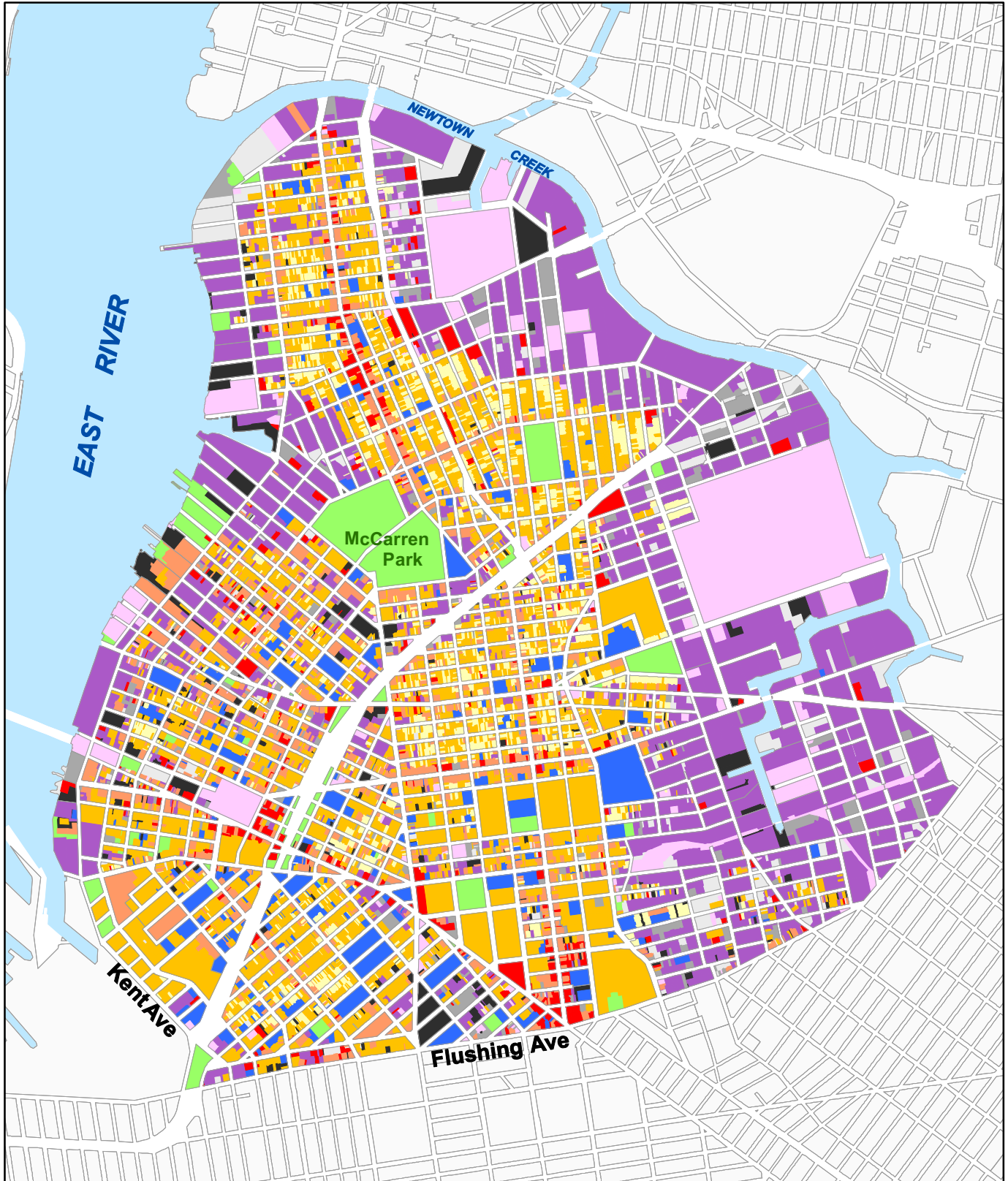
INCOME SUPPORT	2005	2011
Cash Assistance (TANF)	7,600	5,834
Supplemental Security Income	8,781	8,621
Medicaid Only	59,156	58,139
Total Persons Assisted	75,537	72,594
Percent of Population	47.1	41.9

TOTAL LAND AREA		
Acres:		3,043.8
Square Miles:		4.8



LAND USE, 2011				
	Lots	Lot Area		
		Sq. Ft.(000)	%	
1 - 2 Family Residential	2,626	5,105.8	5.6	
Multi-Family Residential	6,121	22,788.2	25.1	
Mixed Resid. / Commercial	2,484	7,805.3	8.6	
Commercial / Office	466	2,780.4	3.1	
Industrial	1,567	27,650.5	30.4	
Transportation / Utility	201	3,768.2	4.2	
Institutions	346	4,930.0	5.4	
Open Space / Recreation	70	4,805.6	5.3	
Parking Facilities	545	3,113.7	3.4	
Vacant Land	493	4,144.9	4.6	
Miscellaneous	338	3,967.1	4.4	
Total	15,257	90,859.6	100.0	

Brooklyn Community District 1



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NYC Department of City Planning

Source: MapPLUTO™ Release 11v1

Residential Land Uses

- One & Two Family Buildings
- Multi-Family Buildings
- Mixed Residential and Commercial Buildings

Non-Residential Land Uses

- Commercial / Office Buildings
- Industrial / Manufacturing
- Open Space and Outdoor Recreation
- Public Facilities and Institutions
- Transportation and Utility
- Parking Facilities
- Vacant Land
- All Others or No Data

Brooklyn Community District 1



**Table PL-P2 CD: Total Population, Under 18 and 18 Years and Over by Mutually Exclusive Race and Hispanic Origin and Total Housing Units
New York City Community Districts, 1990 to 2010**

Brooklyn Community District 1	1990		2000		2010		Change 2000-2010	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Population	155,972	100.0	160,338	100.0	173,083	100.0	12,745	7.9
White Nonhispanic	71,828	46.1	77,040	48.0	105,311	60.8	28,271	36.7
Black/African American Nonhispanic	11,244	7.2	8,808	5.5	8,982	5.2	174	2.0
Asian or Pacific Islander Nonhispanic	4,045	2.6	5,730	3.6	8,765	5.1	3,035	53.0
American Indian and Alaska Native Nonhisp	295	0.2	192	0.1	206	0.1	14	7.3
Some Other Race Nonhispanic	610	0.4	3,635	2.3	599	0.3	(3,036)	-83.5
Nonhispanic of Two or More Races	-	-	4,488	2.8	2,212	1.3	(2,276)	-50.7
Hispanic Origin	67,950	43.6	60,445	37.7	47,008	27.2	(13,437)	-22.2
Population Under 18 Years	47,094	100.0	46,571	100.0	41,264	100.0	(5,307)	-11.4
White Nonhispanic	19,584	41.6	21,504	46.2	27,155	65.8	5,651	26.3
Black/African American Nonhispanic	3,268	6.9	2,601	5.6	1,987	4.8	(614)	-23.6
Asian or Pacific Islander Nonhispanic	956	2.0	1,155	2.5	1,040	2.5	(115)	-10.0
American Indian and Alaska Native Nonhisp	96	0.2	76	0.2	43	0.1	(33)	-43.4
Some Other Race Nonhispanic	322	0.7	1,873	4.0	160	0.4	(1,713)	-91.5
Nonhispanic of Two or More Races	-	-	1,346	2.9	460	1.1	(886)	-65.8
Hispanic Origin	22,868	48.6	18,016	38.7	10,419	25.2	(7,597)	-42.2
Population 18 Years and Over	108,878	100.0	113,767	100.0	131,819	100.0	18,052	15.9
White Nonhispanic	52,244	48.0	55,536	48.8	78,156	59.3	22,620	40.7
Black/African American Nonhispanic	7,976	7.3	6,207	5.5	6,995	5.3	788	12.7
Asian or Pacific Islander Nonhispanic	3,089	2.8	4,575	4.0	7,725	5.9	3,150	68.9
American Indian and Alaska Native Nonhisp	199	0.2	116	0.1	163	0.1	47	40.5
Some Other Race Nonhispanic	288	0.3	1,762	1.5	439	0.3	(1,323)	-75.1
Nonhispanic of Two or More Races	-	-	3,142	2.8	1,752	1.3	(1,390)	-44.2
Hispanic Origin	45,082	41.4	42,429	37.3	36,589	27.8	(5,840)	-13.8
Total Population	155,972	100.0	160,338	100.0	173,083	100.0	12,745	7.9
Under 18 Years	47,094	30.2	46,571	29.0	41,264	23.8	(5,307)	-11.4
18 Years and Over	108,878	69.8	113,767	71.0	131,819	76.2	18,052	15.9
Total Housing Units	55,293	-	58,692	-	72,105	-	13,413	22.9

Race categories in 2000 and 2010 are not strictly comparable to 1990.

Source: U.S. Census Bureau, 2000 and 2010 Census PL and SF1 Files and 1990 Census STF1
Population Division - NYC Department of City Planning (July 2011)

**Table SF1-DP CD: Demographic Profile - New York City Community Districts
2000 and 2010**

Brooklyn Community District 1	2000		2010	Change 2000-2010		
	Number	Percent	Number	Percent	Number	Percent
Total Population	160,338	100.0	173,083	100.0	12,745	7.9
White Nonhispanic	77,040	48.0	105,311	60.8	28,271	36.7
Black Nonhispanic	8,808	5.5	8,982	5.2	174	2.0
Asian and Pacific Islander Nonhispanic	5,730	3.6	8,765	5.1	3,035	53.0
Other Nonhispanic	3,827	2.4	805	0.5	(3,022)	-79.0
Two or More Races Nonhispanic	4,488	2.8	2,212	1.3	(2,276)	-50.7
Hispanic Origin	60,445	37.7	47,008	27.2	(13,437)	-22.2
Female	81,550	50.9	87,575	50.6	6,025	7.4
Male	78,788	49.1	85,508	49.4	6,720	8.5
Under 5 years	13,657	8.5	14,047	8.1	390	2.9
5 to 9 years	13,141	8.2	11,072	6.4	(2,069)	-15.7
10 to 14 years	12,351	7.7	9,975	5.8	(2,376)	-19.2
15 to 19 years	12,476	7.8	10,414	6.0	(2,062)	-16.5
20 to 24 years	14,355	9.0	16,444	9.5	2,089	14.6
25 to 44 years	49,212	30.7	66,070	38.2	16,858	34.3
45 to 64 years	29,686	18.5	30,395	17.6	709	2.4
65 years and over	15,460	9.6	14,666	8.5	(794)	-5.1
18 years and over	113,767	71.0	131,819	76.2	18,052	15.9
In households	159,241	99.3	171,642	99.2	12,401	7.8
In family households	130,062	81.1	120,016	69.3	(10,046)	-7.7
Householder	34,368	21.4	33,140	19.1	(1,228)	-3.6
Spouse	21,546	13.4	21,842	12.6	296	1.4
Own child under 18 years	41,152	25.7	37,502	21.7	(3,650)	-8.9
Other relatives	28,695	17.9	24,752	14.3	(3,943)	-13.7
Nonrelatives	4,301	2.7	2,780	1.6	(1,521)	-35.4
In nonfamily households	29,179	18.2	51,626	29.8	22,447	76.9
Householder	21,263	13.3	32,702	18.9	11,439	53.8
Householder 65 years and over living alone	5,416	3.4	5,360	3.1	(56)	-1.0
Nonrelatives	7,916	4.9	18,924	10.9	11,008	139.1
In group quarters	1,097	0.7	1,441	0.8	344	31.4
Total Households	55,631	100.0	65,842	100.0	10,211	18.4
Family households	34,368	61.8	33,140	50.3	(1,228)	-3.6
Married-couple family	21,546	38.7	21,842	33.2	296	1.4
With related children under 18 years	12,517	22.5	11,455	17.4	(1,062)	-8.5
Female householder, no husband present	10,070	18.1	8,738	13.3	(1,332)	-13.2
With related children under 18 years	6,362	11.4	4,724	7.2	(1,638)	-25.7
Male householder, no wife present	2,752	4.9	2,560	3.9	(192)	-7.0
With related children under 18 years	1,124	2.0	956	1.5	(168)	-14.9
Nonfamily households	21,263	38.2	32,702	49.7	11,439	53.8
Households with one or more persons 65 years and over	12,238	22.0	11,870	18.0	(368)	-3.0
Persons Per Family	3.66	-	3.54	-	(0.12)	-3.3
Persons Per Household	2.86	-	2.61	-	(0.26)	-8.9
Total Housing Units	58,692	-	72,105	-	13,413	22.9
Occupied Housing Units	55,631	100.0	65,842	100.0	10,211	18.4
Renter occupied	48,086	86.4	56,511	85.8	8,425	17.5
Owner occupied	7,545	13.6	9,331	14.2	1,786	23.7
By Household Size:						
1 person household	15,459	27.8	19,018	28.9	3,559	23.0
2 person household	14,970	26.9	22,092	33.6	7,122	47.6
3 person household	8,958	16.1	10,406	15.8	1,448	16.2
4 person household	6,981	12.5	6,255	9.5	(726)	-10.4
5 persons and over	9,263	16.7	8,071	12.3	(1,192)	-12.9
By Age of Householder:						
15 to 24 years	4,071	7.3	5,101	7.7	1,030	25.3
25 to 44 years	23,821	42.8	32,724	49.7	8,903	37.4
45 to 64 years	17,029	30.6	17,616	26.8	587	3.4
65 years and over	10,710	19.3	10,401	15.8	(309)	-2.9

2010 Census Tracts - Brooklyn Community District 1



12 Community District Boundary

124 2010 Census Tract

Source: DCP, BYTES of the Big Apple

NYCPLANNING
DEPARTMENT OF CITY PLANNING CITY OF NEW YORK



May 2012



**Change in Total Population, 2000 to 2010
by Census Tract
Brooklyn Community District 1**

Census Tract	Total Population		Population Change, 2000-2010	
	2000	2010	Number	Percent
449	3,100	2,932	-168	-5.4
453	1,616	2,017	401	24.8
477	2,276	3,318	1,042	45.8
481	2,772	2,778	6	0.2
485	1,613	2,510	897	55.6
489	4,020	4,039	19	0.5
491	5,453	6,418	965	17.7
493	7,681	7,625	-56	-0.7
495	2,727	2,603	-124	-4.5
497	2,228	2,645	417	18.7
499	1,649	1,753	104	6.3
501	2,646	2,786	140	5.3
503	2,735	2,582	-153	-5.6
505	4,211	4,163	-48	-1.1
507	728	2,288	1,560	214.3
509	1,838	3,694	1,856	101.0
511	3,730	3,933	203	5.4
513	4,362	4,332	-30	-0.7
515	877	1,372	495	56.4
517	1,514	1,735	221	14.6
519	3,043	3,564	521	17.1
523	5,729	5,469	-260	-4.5
525	3,537	3,499	-38	-1.1
527	7,277	6,629	-648	-8.9
529	4,295	3,979	-316	-7.4
531	2,582	7,027	4,445	172.2
533	7,560	6,566	-994	-13.1
535	4,880	4,348	-532	-10.9
537	1,963	3,575	1,612	82.1
539	3,476	2,756	-720	-20.7
545	8,257	8,008	-249	-3.0
547	3,364	5,245	1,881	55.9
549	1,488	3,122	1,634	109.8
551	4,313	4,597	284	6.6
553	2,583	2,596	13	0.5

* Census tract is within two or more community districts. Data are for entire census tract.

**Change in Total Population, 2000 to 2010
by Census Tract
Brooklyn Community District 1**

Census Tract	Total Population		Population Change, 2000-2010	
	2000	2010	Number	Percent
555	875	1,959	1,084	123.9
557	1,168	1,655	487	41.7
561	3,728	3,295	-433	-11.6
563	4,440	4,360	-80	-1.8
565	3,563	3,255	-308	-8.6
569	1,664	1,630	-34	-2.0
571	5,083	4,400	-683	-13.4
573	2,787	2,608	-179	-6.4
575	5,006	4,249	-757	-15.1
579	1,362	1,117	-245	-18.0
589	1,774	1,904	130	7.3
591	4,277	3,920	-357	-8.3
593	2,488	2,228	-260	-10.5

* Census tract is within two or more community districts. Data are for entire census tract.

**Total Population by Mutually Exclusive Race and Hispanic Origin
by Census Tract, 2010
Brooklyn Community District 1**

Census Tract	Total Population	Nonhispanic by Race					Hispanic Origin (of any race)
		Single Race				Two or More Races	
		White	Black/ African American	Asian	Other		
449	2,932	574	967	42	21	50	1,278
453	2,017	593	278	84	15	29	1,018
477	3,318	2,336	64	265	28	91	534
481	2,778	1,511	37	322	12	43	853
485	2,510	1,290	125	115	29	66	885
489	4,039	41	1,561	10	14	36	2,377
491	6,418	1,100	1,063	1,721	20	66	2,448
493	7,625	1,352	1,090	155	32	84	4,912
495	2,603	1,515	33	227	20	61	747
497	2,645	2,168	21	167	15	52	222
499	1,753	1,385	24	79	10	27	228
501	2,786	2,045	34	187	11	40	469
503	2,582	1,622	31	146	16	52	715
505	4,163	829	650	492	20	60	2,112
507	2,288	1,578	109	25	5	24	547
509	3,694	3,329	17	5	12	11	320
511	3,933	1,006	289	785	13	46	1,794
513	4,332	1,983	134	198	20	78	1,919
515	1,372	971	24	110	10	24	233
517	1,735	1,338	12	151	9	32	193
519	3,564	2,467	48	273	25	73	678
523	5,469	1,562	93	175	21	75	3,543
525	3,499	2,121	224	82	31	12	1,029
527	6,629	1,401	173	156	29	50	4,820
529	3,979	3,591	10	13	10	40	315
531	7,027	6,726	11	4	2	13	271
533	6,566	6,365	21	8	4	10	158
535	4,348	3,987	4	5	11	27	314
537	3,575	3,504	21	7	1	4	38
539	2,756	2,251	107	0	17	21	360
545	8,008	5,339	613	10	53	39	1,954
547	5,245	3,834	281	132	32	61	905
549	3,122	2,279	78	159	11	57	538

* Census tract is within two or more community districts. Data are for entire census tract.

**Total Population by Mutually Exclusive Race and Hispanic Origin
by Census Tract, 2010
Brooklyn Community District 1**

Census Tract	Total Population	Nonhispanic by Race					Hispanic Origin (of any race)
		Single Race				Two or More Races	
		White	Black/ African American	Asian	Other		
551	4,597	1,780	164	231	28	77	2,317
553	2,596	1,674	54	239	22	44	563
555	1,959	1,292	72	204	14	49	328
557	1,655	1,266	36	117	7	27	202
561	3,295	2,644	18	198	15	53	367
563	4,360	2,580	148	338	44	93	1,157
565	3,255	2,485	26	163	20	63	498
569	1,630	1,335	9	66	7	39	174
571	4,400	3,907	17	177	11	57	231
573	2,608	2,219	23	114	17	40	195
575	4,249	2,964	59	255	28	66	877
579	1,117	503	25	67	27	21	474
589	1,904	1,656	13	66	18	29	122
591	3,920	3,324	46	103	7	65	375
593	2,228	1,689	25	63	15	35	401

* Census tract is within two or more community districts. Data are for entire census tract.

**Selected Facilities and Program Sites
in New York City, release 2011.2**

BROOKLYN COMMUNITY DISTRICT 1

<u>Block</u>	<u>Lot</u>	<u>Facility Name</u>	<u>Facility Address</u>	<u>Facility Type</u>	<u>Capacity / Type</u>	<u>Oversight Agency</u>
SCHOOLS						
<i>Public Elementary and Secondary Schools</i>						
2688	42	PS 110 THE MONITOR	124 Monitor St	Elementary School - Public	349 Enrollment	NYC DOE
2759	1	PS 132 THE CONSELYEA SCHOOL	320 Manhattan Ave	Elementary School - Public	767 Enrollment	NYC DOE
3091	1	PS 147 ISSAC REMSEN	325 Bushwick Ave	Elementary School - Public	245 Enrollment	NYC DOE
2177	1	PS 16 LEONARD DUNKLY	157 Wilson St	Elementary School - Public	335 Enrollment	NYC DOE
2345	1	PS 17 HENRY D WOODWORTH	208 N 5 St	Elementary School - Public	394 Enrollment	NYC DOE
2787	1	PS 18 EDWARD BUSH	101 Maujer St	Elementary School - Public	221 Enrollment	NYC DOE
2423	1	PS 19 ROBERTO CLEMENTE	325 S 3 St	Elementary School - Public	378 Enrollment	NYC DOE
3046	1	PS 196 TEN EYCK	207 Bushwick Ave	Elementary School - Public	401 Enrollment	NYC DOE
3060	1	PS 250 GEORGE H LINDSEY	108 Montrose Ave	Elementary School - Public	813 Enrollment	NYC DOE
3114	11	PS 257 JOHN F HYLAN	60 Cook St	Elementary School - Public	595 Enrollment	NYC DOE
2595	1	PS 31 SAMUEL F DUPONT	75 Meserole Ave	Elementary School - Public	556 Enrollment	NYC DOE
2424	1	PS 319	360 Keap St	Elementary School - Public	193 Enrollment	NYC DOE
2622	28	PS 34 OLIVER H PERRY	131 Norman Ave	Elementary School - Public	521 Enrollment	NYC DOE
2236	9	PS 380 JOHN WAYNE ELEMENTARY	370 Marcy Ave	Elementary School - Public	573 Enrollment	NYC DOE
2391	1	PS 84 JOSE DE DIEGO	250 Berry St	Elementary School - Public	465 Enrollment	NYC DOE
2345	1	CONSELYEA PREPARATORY SCHOOL	208 N 5 St	Intermediate/JHS - Public	444 Enrollment	NYC DOE
2246	1	IS 318 EUGENO MARIA DE HOSTOS	101 Walton St	Intermediate/JHS - Public	1678 Enrollment	NYC DOE
2419	1	JHS 50 JOHN D WELLS	183 S 3 St	Intermediate/JHS - Public	471 Enrollment	NYC DOE
2712	1	JOHN ERICSSON MIDDLE SCHOOL 126	424 Leonard St	Intermediate/JHS - Public	330 Enrollment	NYC DOE
3046	1	MS 582	207 Bushwick Ave	Intermediate/JHS - Public	307 Enrollment	NYC DOE
3025	1	YOUNG WOMEN'S LEADERSHIP SCHOOL OF BROOKLYN	223 Graham Ave	Intermediate/JHS - Public	199 Enrollment	NYC DOE
2227	1	JUAN MOREL CAMPOS SECONDARY SCHOOL	215 Heyward St	Junior/Senior High School - Public	877 Enrollment	NYC DOE

**Selected Facilities and Program Sites
in New York City, release 2011.2**

BROOKLYN COMMUNITY DISTRICT 1

<u>Block</u>	<u>Lot</u>	<u>Facility Name</u>	<u>Facility Address</u>	<u>Facility Type</u>	<u>Capacity / Type</u>	<u>Oversight Agency</u>
Public Elementary and Secondary Schools						
3025	1	LYONS COMMUNITY SCHOOL	223 Graham Ave	Junior/Senior High School - Public	547 Enrollment	NYC DOE
2419	1	ACADEMY FOR YOUNG WRITERS	183 S 3 St	High School - Public	373 Enrollment	NYC DOE
2670	1	AUTOMOTIVE HIGH SCHOOL	50 Bedford Ave	High School - Public	888 Enrollment	NYC DOE
3091	1	BROOKLYN LATIN SCHOOL (THE)	325 Bushwick Ave	High School - Public	336 Enrollment	NYC DOE
2330	11	BROOKLYN PREPARATORY HIGH SCHOOL	257 N 6 St	High School - Public	380 Enrollment	NYC DOE
2207	2	EL PUENTE ACADEMY FOR PEACE AND JUSTICE	250 Hooper St	High School - Public	201 Enrollment	NYC DOE
2670	1	FRANCES PERKINS ACADEMY	50 Bedford Ave	High School - Public	149 Enrollment	NYC DOE
3025	1	GREEN SCHOOL: AN ACADEMY FOR ENVIRONMENTAL CAREERS	223 Graham Ave	High School - Public	362 Enrollment	NYC DOE
3016	1	HIGH SCHOOL OF ENTERPRISE, BUSINESS & TECHNOLOGY	850 Grand St	High School - Public	950 Enrollment	NYC DOE
3016	1	PROGRESS HIGH SCHOOL FOR PROFESSIONAL CAREERS	850 Grand St	High School - Public	1008 Enrollment	NYC DOE
3016	1	SCHOOL FOR LEGAL STUDIES	850 Grand St	High School - Public	813 Enrollment	NYC DOE
2330	11	WILLIAMSBURG HIGH SCHOOL FOR ARCHITECTURE AND DESIGN	257 N 6 St	High School - Public	429 Enrollment	NYC DOE
2330	11	WILLIAMSBURG PREPARATORY SCHOOL	257 N 6 St	High School - Public	539 Enrollment	NYC DOE
2268	1	BEGINNING WITH CHILDREN CHARTER SCHOOL	11 Bartlett St	Elementary School - Public Charter	441 Enrollment	NYC DOE
2177	1	WILLIAMSBURG COLLEGIATE CHARTER SCHOOL	157 Wilson St	Elementary School - Public Charter	350 Enrollment	NYC DOE
2712	1	BELIEVE NORTHSIDE CHARTER HIGH SCHOOL	424 Leonard St	High School - Public Charter	173 Enrollment	NYC DOE
2712	1	BELIEVE SOUTHSIDE CHARTER HIGH SCHOOL	424 Leonard St	High School - Public Charter	193 Enrollment	NYC DOE
3117	24	WILLIAMSBURG CHARTER HIGH SCHOOL	198 Varet St	High School - Public Charter	872 Enrollment	NYC DOE
Private/Parochial Elementary and Secondary Schools						
2208	3	BE'ER MIRIAM	11 Harrison Ave	Elementary School - Private/Parochial	65 Enrollment	NYSED

**Selected Facilities and Program Sites
in New York City, release 2011.2**

BROOKLYN COMMUNITY DISTRICT 1

<u>Block</u>	<u>Lot</u>	<u>Facility Name</u>	<u>Facility Address</u>	<u>Facility Type</u>	<u>Capacity / Type</u>	<u>Oversight Agency</u>
<i>Private/Parochial Elementary and Secondary Schools</i>						
2159	1	BE'IKVEI HATZOIN	31 Division Ave	Elementary School - Private/Parochial	153 Enrollment	NYSED
2187	39	ICHUD HATALMIDIM	163 Rodney St	Elementary School - Private/Parochial	1075 Enrollment	NYSED
2315	1	NORTHSIDE CATHOLIC SCHOOL AT MOUNT CARMEL	10 Withers St	Elementary School - Private/Parochial	131 Enrollment	NYSED
2789	30	SAINT JOHN THE EVANGELIST LUTHERAN SCHOOL	195 Maujer St	Elementary School - Private/Parochial	14 Enrollment	NYSED
2921	23	SAINT NICHOLAS ELEMENTARY SCHOOL	287 Powers St	Elementary School - Private/Parochial	213 Enrollment	NYSED
2684	42	SAINT STANISLAUS KOSTKA SCHOOL	12 Newell St	Elementary School - Private/Parochial	220 Enrollment	NYSED
3061	10	SAINTS JOSEPH AND DOMINIC CATHOLIC ACADEMY OF WILLIAMSBURG	140 Montrose Ave	Elementary School - Private/Parochial	238 Enrollment	NYSED
2203	7	TALMUD TORAH TOLDOS HILLEL-KRASNA	35 Hewes St	Elementary School - Private/Parochial	249 Enrollment	NYSED
2178	6	TALMUD TORAH TZEMACH TZADIK VIZNITZ	185 Wilson St	Elementary School - Private/Parochial	40 Enrollment	NYSED
2239	1	YESHIVA BNOS SPINKA	127 Wallabout St	Elementary School - Private/Parochial	213 Enrollment	NYSED
2173	1	YESHIVA JESODE HATORAH	505 Bedford Ave	Elementary School - Private/Parochial	266 Enrollment	NYSED
2188	11	YESHIVA TZEMACH TZADIK VIZNITZ	186-88 Ross St	Elementary School - Private/Parochial	191 Enrollment	NYSED
2204	39	YESHIVA YESODE HATORAH	620 Bedford Ave	Elementary School - Private/Parochial	191 Enrollment	NYSED
2226	1	CONGREGATION AHAVAS SHULEM DNADVERNA TIFERES BNOS	199 Lee Ave	Junior/Senior High School - Private/Parochial	499 Enrollment	NYSED
2134	50	JEWISH CENTER FOR SPECIAL EDUCATION	430 Kent Ave	Junior/Senior High School - Private/Parochial	48 Enrollment	NYSED
2226	1	KEREN HATORAH	199 Lee Ave	Junior/Senior High School - Private/Parochial	99 Enrollment	NYSED
2187	39	TALMUD TORAH DNITRA	163 Rodney St	Junior/Senior High School - Private/Parochial	489 Enrollment	NYSED
2221	23	TALMUD TORAH OF KASHO	324 Penn St	Junior/Senior High School - Private/Parochial	393 Enrollment	NYSED
2182	1	TALMUD TORAH TASHBAR	543 Bedford Ave	Junior/Senior High School - Private/Parochial	302 Enrollment	NYSED
2193	30	UNITED TALMUDICAL ACADEMY	82 Lee Ave	Junior/Senior High School - Private/Parochial	3765 Enrollment	NYSED
2210	38	YESHIVA KEHILATH YAKOV	638 Bedford Ave	Junior/Senior High School - Private/Parochial	554 Enrollment	NYSED

Selected Facilities and Program Sites
in New York City, release 2011.2

BROOKLYN COMMUNITY DISTRICT 1

<u>Block</u>	<u>Lot</u>	<u>Facility Name</u>	<u>Facility Address</u>	<u>Facility Type</u>	<u>Capacity / Type</u>	<u>Oversight Agency</u>
Private/Parochial Elementary and Secondary Schools						
2132	7501	ACH TOV V'CHESED	123 S 8 St	Senior High School - Private/Parochial	168 Enrollment	NYSED
2197	20	CONGREGATION YESHIVA MEVOI HATALMUD	712 Wythe Ave	Senior High School - Private/Parochial	45 Enrollment	NYSED
2178	6	MESIVTA NACHLAS YACOV-A YERIM	185 Wilson St	Senior High School - Private/Parochial	47 Enrollment	NYSED
2182	58	YESHIVA BETH JOSEPH ZVI DUSHINSKY	135 Ross St	Senior High School - Private/Parochial	34 Enrollment	NYSED
2193	7	BAIS YAKOV OF KHAL ADAS YEREIM	563 Bedford Ave	K-12 School - Private/Parochial	488 Enrollment	NYSED
2204	39	BETH CHANA SCHOOL AND HIGH SCHOOL FOR GIRLS	620 Bedford Ave	K-12 School - Private/Parochial	414 Enrollment	NYSED
2195	1	BETH RACHEL SCHOOL FOR GIRLS	241 Keap St	K-12 School - Private/Parochial	3886 Enrollment	NYSED
2464	14	BNOS CHAYIL	345 Hewes St	K-12 School - Private/Parochial	883 Enrollment	NYSED
2220	38	BNOS YAKOV SCHOOL FOR GIRLS	62-68 Harrison Ave	K-12 School - Private/Parochial	917 Enrollment	NYSED
2224	5	KHHD YOEL OF SATMAR BP	76 Rutledge St	K-12 School - Private/Parochial	4558 Enrollment	NYSED
2225	50	MOSDOS CHASIDEI SQUARE	105 Heyward St	K-12 School - Private/Parochial	319 Enrollment	NYSED
2173	31	YESHIVA BNOS AHAVAS ISRAEL	2 Lee Ave	K-12 School - Private/Parochial	869 Enrollment	NYSED
2210	38	YESHIVA KEHILATH YAKOV	638 Bedford Ave	K-12 School - Private/Parochial	722 Enrollment	NYSED
2235	55	YESHIVA MESIVTA ARUGATH HABOSEM	40 Lynch St	K-12 School - Private/Parochial	464 Enrollment	NYSED

RECREATIONAL AND CULTURAL FACILITIES

Libraries and Cultural Institutions

3098	19	BUSHWICK LIBRARY	340 Bushwick Ave	Public Library - Branch	134191 Annual Circ.	BPL
2621	32	GREENPOINT LIBRARY	107 Norman Ave	Public Library - Branch	253736 Annual Circ.	BPL
2762	21	LEONARD LIBRARY	81 Devoe St	Public Library - Branch	186447 Annual Circ.	BPL
2189	1	WILLIAMSBURGH LIBRARY	240 Division Ave	Public Library - Branch	191070 Annual Circ.	BPL

Parklands

		AMERICAN PLAYGROUND	Franklin St bet Milton St and Noble St	Park/Playground - NYC	0.896 Acres	NYC DPR

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Parklands						
		BARTLETT PLAYGROUND	Bartlett St to Whipple St bet Throop Ave & Harrison Ave	Park/Playground - NYC	0.918 Acres	NYC DPR/DOE
		BEDFORD PLAYGROUND	Bedford Ave bet S 9 St and Division Ave	Park/Playground - NYC	0.881 Acres	NYC DPR
		BERRY PLAYGROUND	S 3 St bet Berry St and Bedford Ave	Park/Playground - NYC	0.327 Acres	NYC DPR
		BUSHWICK INLET PARK	Kent Ave & N 9 St, N 10 St	Park/Playground - NYC	9.036 Acres	NYC DPR
		BUSHWICK PLAYGROUND	Flushing Ave bet. BeAver St and Garden St	Park/Playground - NYC	1.29 Acres	NYC DPR
		CLASSON PLAYGROUND	Classon Ave, Kent Ave, BQE North	Park/Playground - NYC	3.15 Acres	NYC DPR
		COOPER PARK	Maspeth Ave, Sharon St bet Olive St and Morgan Ave	Park/Playground - NYC	6.401 Acres	NYC DPR
		DE HOSTOS PLAYGROUND	Harrison Ave bet Walton and Lorimer Sts	Park/Playground - NYC	1.1 Acres	NYC DPR/DOE
		EPIPHANY PLAYGROUND	Berry St bet S 9 St and S 10 St	Park/Playground - NYC	0.5 Acres	NYC DPR
		ERICSSON PLAYGROUND	Manhattan Ave and Leonard St	Park/Playground - NYC	1.15 Acres	NYC DPR/DOE
		FROST PLAYGROUND	Frost St bet Debevoise Ave and Kingsland Ave	Park/Playground - NYC	0.739 Acres	NYC DPR
		GILBERT RAMIREZ PARK	Mc Kibbin St bet White St and Bogart St	Park/Playground - NYC	1.034 Acres	NYC DPR
		GRAND FERRY PARK	Grand St at River St	Park/Playground - NYC	1.7 Acres	NYC DPR
		GREENPOINT PLAYGROUND	Franklin St bet Commerical St and Dupoint St	Park/Playground - NYC	0.504 Acres	NYC DPR
		JACOB'S LADDER PLAYGROUND	Clymer St bet Kent Ave and Wythe Ave	Park/Playground - NYC	1.085 Acres	NYC DPR
		JAIME CAMPIZ PLAYGROUND	Hope St, Marcy, Metropolitan Aves	Park/Playground - NYC	0.752 Acres	NYC DPR
		LA GUARDIA PLAYGROUND	S 4 St bet Roebling St and Williamsburg Bridge Ramp	Park/Playground - NYC	0.406 Acres	NYC DPR
		MCCARREN PARK	N 12 St, Lorimer St, Manhattan Ave bet Bayard St and Berry St - Nassau Ave	Park/Playground - NYC	35.713 Acres	NYC DPR
		MIDDLETON PLAYGROUND	Lynch St, Middleton St bet Lee Ave and Bedford Ave	Park/Playground - NYC	1.101 Acres	NYC DPR

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Parklands						
		MSGR. MCGOLRICK PARK	Russell St, Monitor St bet Nassau Ave and Driggs Ave	Park/Playground - NYC	9.134 Acres	NYC DPR
		NORTH 5TH STREET PIER	Kent Ave bet N 5 St and N 3 St	Park/Playground - NYC	0.744 Acres	NYC DPR
		P.S. 110	Monitor St, Kingsland Ave, and Driggs Ave	Park/Playground - NYC	0.353 Acres	NYC DPR/DOE
		P.S. 31	Lorimer St bet Meserole Ave and Calyer St	Park/Playground - NYC	0.167 Acres	NYC DPR/DOE
		P.S. 34	Norman Ave bet McGuinness Blvd and Eckford St	Park/Playground - NYC	0.27 Acres	NYC DPR/DOE
		PARK	Keap St and Bedford Ave	Park/Playground - NYC	0.064 Acres	NYC DPR
		PENN TRIANGLE	Penn St and Wythe Ave	Park/Playground - NYC	0.183 Acres	NYC DPR
		RODNEY PARK SOUTH	Rodney, S 3 and S 4 Sts	Park/Playground - NYC	0.319 Acres	NYC DPR
		RODNEY PLAYGROUND CENTER	Rodney, S 3 St	Park/Playground - NYC	0.189 Acres	NYC DPR
		RODNEY PLAYGROUND NORTH	Borinquen, Rodney and S 1 St	Park/Playground - NYC	0.29 Acres	NYC DPR
		ROEBLING PLAYGROUND	Wilson & Lee Aves, Taylor St, Bedford Ave	Park/Playground - NYC	1.227 Acres	NYC DPR/DOE
		SCT. WILLIAM DOUGHERTY PLAYGROUND	Vandervoort Ave bet Cherry St and Anthony St	Park/Playground - NYC	0.76 Acres	NYC DPR
		SOBEL PLAYGROUND	Lee Ave, Division Ave, Roebbling St	Park/Playground - NYC	0.135 Acres	NYC DPR
		STERNBERG PARK	Lorimer St bet Montrose Ave and Boerum St	Park/Playground - NYC	4.044 Acres	NYC DPR
		TEN EYCK PLAYGROUND	Scholes St bet Bushwick Ave & Waterbury St	Park/Playground - NYC	0.972 Acres	NYC DPR/DOE
		TEN EYCK PLAZA	Ten Eyck St, Stagg St bet Lorimer St and Union Ave	Park/Playground - NYC	0.46 Acres	NYC DPR
		TRANSMITTER PARK	West St bet Kent St and Greenpoint Ave	Park/Playground - NYC	6.611 Acres	NYC DPR
		WILLIAM SHERIDAN PLAYGROUND	Wythe Ave bet Grand St and S 1 St	Park/Playground - NYC	1.17 Acres	NYC DPR/DOE
		LA GUARDIA PLAYGROUND	S 5 St, Broadway, Havemeyer St	Buildings/Institutions, Athletic/Recreation Fac - NYC	0.773 Acres	NYC DPR
		MARCY PARK SOUTH	Marcy Ave bet S 9 St & Division St	Buildings/Institutions, Athletic/Recreation Fac - NYC	0.357 Acres	NYC DPR

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		MARTINEZ PLAYGROUND	Scholes St bet Manhattan Ave and Graham Ave	Buildings/Institutions, Athletic/Recreation Fac - NYC	1.373 Acres	NYC DPR/NYCHA
		METROPOLITAN RECREATION CENTER	Bedford Ave bet Metropolitan Ave and N 1 St	Buildings/Institutions, Athletic/Recreation Fac - NYC	0.181 Acres	NYC DPR
		NEWTOWN BARGE PLAYGROUND	Commercial St, Dupont St	Buildings/Institutions, Athletic/Recreation Fac - NYC	1.198 Acres	NYC DPR
		ROBERTO CLEMENTE BALLFIELD	Division Ave bet Wythe and Kent Aves	Buildings/Institutions, Athletic/Recreation Fac - NYC	1.875 Acres	NYC DPR
		RODNEY PARK CENTER	Broadway, Rodney, S 5 Sts	Buildings/Institutions, Athletic/Recreation Fac - NYC	0.237 Acres	NYC DPR
		RODNEY PARK NORTH	Rodney, S 4 and S 5 Sts	Buildings/Institutions, Athletic/Recreation Fac - NYC	0.37 Acres	NYC DPR
		RODNEY PARK SOUTH	Division Ave, Rodney St, S 9 St	Buildings/Institutions, Athletic/Recreation Fac - NYC	0.392 Acres	NYC DPR
		BEDAME SESSA TRIANGLE	Leonard St, Withers St, Meeker Ave	Triangle, Plaza, Mall, Other - NYC	0.067 Acres	NYC DPR
		CLASSON TRIANGLE	Kent Ave, Classon Ave, Wallabout St	Triangle, Plaza, Mall, Other - NYC	0.206 Acres	NYC DPR
		COHN TRIANGLE	Bedford Ave at Division Ave	Triangle, Plaza, Mall, Other - NYC	0.07 Acres	NYC DPR
		CONTINENTAL ARMY PLAZA	S 4 St bet S 5 Pl and Roebing St	Triangle, Plaza, Mall, Other - NYC	0.532 Acres	NYC DPR
		FATHER GIORGIO TRIANGLE	Jackson, Lorimer Sts, Meeker Ave	Triangle, Plaza, Mall, Other - NYC	0.1 Acres	NYC DPR
		FIDELITY TRIANGLE	Monitor St bet Engert Ave and Meeker Ave	Triangle, Plaza, Mall, Other - NYC	0.005 Acres	NYC DPR
		HARMONY TRIANGLE	Middleton St, Harrison Ave, Union Ave	Triangle, Plaza, Mall, Other - NYC	0.1 Acres	NYC DPR
		LINDSAY TRIANGLE	Throop Ave, Lorner St, Broadway	Triangle, Plaza, Mall, Other - NYC	0.039 Acres	NYC DPR
		LITHUANIA SQUARE	Stagg St, Hewes St, Union Ave	Triangle, Plaza, Mall, Other - NYC	0.02 Acres	NYC DPR
		LOT	S 5 St bet Wythe Ave and Berry St	Triangle, Plaza, Mall, Other - NYC	0.975 Acres	NYC DPR
		MACRI TRIANGLE	Metropolitan, Union, Meeker Aves	Triangle, Plaza, Mall, Other - NYC	0.657 Acres	NYC DPR
		MARCY GREEN CENTER	Marcy Ave, S 4 and S 5 Sts	Triangle, Plaza, Mall, Other - NYC	0.195 Acres	NYC DPR
		MARCY GREEN NORTH	Marcy Ave, S 3 and S 4 Sts	Triangle, Plaza, Mall, Other - NYC	0.137 Acres	NYC DPR
		MARCY GREEN SOUTH	Broadway, Marcy Ave and S 5 St	Triangle, Plaza, Mall, Other - NYC	0.104 Acres	NYC DPR
		MEMORIAL GORE	Metropolitan Ave, Maspeth Ave, bet Humbolt St and Bushwick Ave	Triangle, Plaza, Mall, Other - NYC	0.066 Acres	NYC DPR
		MT. CARMEL TRIANGLE	Union, Meeker Aves, Jackson St	Triangle, Plaza, Mall, Other - NYC	0.102 Acres	NYC DPR

Parklands

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		PVT. SONSIRE TRIANGLE	Union Ave, N 11 St and Roebling St	Triangle, Plaza, Mall, Other - NYC	0.036 Acres	NYC DPR
		BERRY STREET GARDEN	Berry St bet S 3 St and S 2 St	Beach, Garden, Natural Area, Other - NYC	0.137 Acres	NYC DPR
		EARTH SPIRIT GARDEN	S 2 St bet Driggs Ave and Roebling St	Beach, Garden, Natural Area, Other - NYC	0.23 Acres	NYC DPR
		LENTOL GARDEN	Graham, Meeker Aves, J Lentol, Humbolt St	Beach, Garden, Natural Area, Other - NYC	0.762 Acres	NYC DPR
		ORIENT GROVE	Metropolitan Ave and Orient Ave	Beach, Garden, Natural Area, Other - NYC	0.149 Acres	NYC DPR
		PROJECT ROOTS	Walton St, bet Harrison and Throop	Beach, Garden, Natural Area, Other - NYC	0.172 Acres	NYC DPR
		RED SHED GARDEN	Kingsland Ave bet Skillman Ave and Maspeth Ave	Beach, Garden, Natural Area, Other - NYC	0.123 Acres	NYC DPR
		ST. NICHOLAS - OLIVE ST. GARDEN	Olive St bet Powers St and Devoe St	Beach, Garden, Natural Area, Other - NYC	0.179 Acres	NYC DPR
		ST. NICHOLAS - POWERS ST. GARDEN	Powers St bet Judge St and Olive St	Beach, Garden, Natural Area, Other - NYC	0.115 Acres	NYC DPR
		SUNSHINE COMMUNITY GARDEN	Mc Kibbin St bet Manhattan Ave and Graham Ave	Beach, Garden, Natural Area, Other - NYC	0.115 Acres	NYC DPR
		TEN EYCH HOUSES HDFC	Ten Eyck St bet Union Ave & Lorminer St	Beach, Garden, Natural Area, Other - NYC	0.114 Acres	NYC DPR
		GREENSTREET	Banker St & Calyer St & Franklin St	Joint NYCDOT/DPR Landscaped Area	0.018 Acres	NYC DOT
		GREENSTREET	Bayard St & McGuinness Blvd & Meeker Ave	Joint NYCDOT/DPR Landscaped Area	0.111 Acres	NYC DOT
		GREENSTREET	Bayard St & McGuinness Blvd & Newton St	Joint NYCDOT/DPR Landscaped Area	0.038 Acres	NYC DOT
		GREENSTREET	Bayard St bet McGuinness Blvd & Meeker Ave	Joint NYCDOT/DPR Landscaped Area	0.022 Acres	NYC DOT
		GREENSTREET	Bedford St & Lynch St & Wallabout St	Joint NYCDOT/DPR Landscaped Area	0.052 Acres	NYC DOT
		GREENSTREET	BQE Ex Nb and Humboldt St and Herb	Joint NYCDOT/DPR Landscaped Area	0.136 Acres	NYC DOT
		GREENSTREET	Bushwick Ave bet Maspeth & Metropolitan	Joint NYCDOT/DPR Landscaped Area	0.009 Acres	NYC DOT
		GREENSTREET	Division Ave & Harrison Ave & Hooper St	Joint NYCDOT/DPR Landscaped Area	0.077 Acres	NYC DOT
		GREENSTREET	Driggs Ave & Graham Ave & McGuinness Bl	Joint NYCDOT/DPR Landscaped Area	0.128 Acres	NYC DOT

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		GREENSTREET	Engert Ave & McGuinness Blvd & Newton St	Joint NYCDOT/DPR Landscaped Area	0.031 Acres	NYC DOT
		GREENSTREET	Flushing Ave & Irving Ave & Varick Ave	Joint NYCDOT/DPR Landscaped Area	0.018 Acres	NYC DOT
		GREENSTREET	Flushing Ave, Marcy Ave and Union Ave	Joint NYCDOT/DPR Landscaped Area	0.017 Acres	NYC DOT
		GREENSTREET	Grand St & Metropolitan Ave	Joint NYCDOT/DPR Landscaped Area	0.06 Acres	NYC DOT
		GREENSTREET	Grand St, Metropolitan Ave & Varick St	Joint NYCDOT/DPR Landscaped Area	0.145 Acres	NYC DOT
		GREENSTREET	Humboldt St, Bayard St, McGuinness Blvd	Joint NYCDOT/DPR Landscaped Area	0.015 Acres	NYC DOT
		GREENSTREET	Humboldt St, Maspeth Ave, and Metropolitan Ave	Joint NYCDOT/DPR Landscaped Area	0.014 Acres	NYC DOT
		GREENSTREET	Johnson St & Morgan St	Joint NYCDOT/DPR Landscaped Area	0.03 Acres	NYC DOT
		GREENSTREET	Kent Ave & Williamsburg St (N)	Joint NYCDOT/DPR Landscaped Area	0.112 Acres	NYC DOT
		GREENSTREET	Leonard St, Moore St & Broadway	Joint NYCDOT/DPR Landscaped Area	0.053 Acres	NYC DOT
		GREENSTREET	Lorimer St, Withers St & Meeker Ave	Joint NYCDOT/DPR Landscaped Area	0.019 Acres	NYC DOT
		GREENSTREET	Marcy Ave & Union Ave & Wallabout St	Joint NYCDOT/DPR Landscaped Area	0.099 Acres	NYC DOT
		GREENSTREET	Maujer St and Union Ave & S 1 St	Joint NYCDOT/DPR Landscaped Area	0.034 Acres	NYC DOT
		GREENSTREET	McGuinness Blvd & Meserole Ave	Joint NYCDOT/DPR Landscaped Area	0.016 Acres	NYC DOT
		GREENSTREET	McGuinness Blvd & Meserole Ave & Norman Ave	Joint NYCDOT/DPR Landscaped Area	0.061 Acres	NYC DOT
		GREENSTREET	McGuinness Blvd & Nassau Ave & Norman Ave	Joint NYCDOT/DPR Landscaped Area	0.052 Acres	NYC DOT
		GREENSTREET	McGuinness Blvd bet Calyer St & Meserole Ave	Joint NYCDOT/DPR Landscaped Area	0.065 Acres	NYC DOT
		GREENSTREET	McGuinness Blvd bet Driggs Ave	Joint NYCDOT/DPR Landscaped Area	0.09 Acres	NYC DOT
		GREENSTREET	McGuinness Blvd bet Driggs Ave St & Broome St	Joint NYCDOT/DPR Landscaped Area	0.032 Acres	NYC DOT

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<i>Parklands</i>						
		GREENSTREET	Mcguinness Blvd bet Engert Ave & Broome St	Joint NYCDOT/DPR Landscaped Area	0.034 Acres	NYC DOT
		GREENSTREET	Mcguinness Blvd bet Freeman St & Green St	Joint NYCDOT/DPR Landscaped Area	0.037 Acres	NYC DOT
		GREENSTREET	Mcguinness Blvd bet Green St & Huron St	Joint NYCDOT/DPR Landscaped Area	0.036 Acres	NYC DOT
		GREENSTREET	Mcguinness Blvd bet Greenpoint Ave & Calyer St	Joint NYCDOT/DPR Landscaped Area	0.084 Acres	NYC DOT
		GREENSTREET	Mcguinness Blvd bet Huron St & India St	Joint NYCDOT/DPR Landscaped Area	0.036 Acres	NYC DOT
		GREENSTREET	Mcguinness Blvd bet India St & Java St	Joint NYCDOT/DPR Landscaped Area	0.038 Acres	NYC DOT
		GREENSTREET	Mcguinness Blvd bet Java St & Kent St	Joint NYCDOT/DPR Landscaped Area	0.037 Acres	NYC DOT
		GREENSTREET	Mcguinness Blvd bet Kent St & Greenpoint Ave	Joint NYCDOT/DPR Landscaped Area	0.034 Acres	NYC DOT
		GREENSTREET	Metropolitan Ave & Orient Ave	Joint NYCDOT/DPR Landscaped Area	0.011 Acres	NYC DOT
		GREENSTREET	Metropolitan Ave, North 5 St, HAvemeye St	Joint NYCDOT/DPR Landscaped Area	0.057 Acres	NYC DOT
		GREENSTREET	Metropolitan Ave, Roebling St, North	Joint NYCDOT/DPR Landscaped Area	0.149 Acres	NYC DOT
		GREENSTREET	Penn St & Wythe Ave	Joint NYCDOT/DPR Landscaped Area	0.017 Acres	NYC DOT
		GREENSTREET	Rodney St/Division Ave	Joint NYCDOT/DPR Landscaped Area	0.051 Acres	NYC DOT
		GREENSTREET	Roebling St, North 4 St (W)	Joint NYCDOT/DPR Landscaped Area	0.027 Acres	NYC DOT
		EAST RIVER STATE PARK	N 7th-N 9th St, Kent Ave, East River	New York State Park	12 Acres	NYS OPRHP

PUBLIC SAFETY AND CRIMINAL JUSTICE FACILITIES

NYPD, FDNY, Courts, and Correctional Facilities

2465	100	90 PRECINCT/PBBN/FD	211 Union Ave	NYC Police Station	NA	NYPD
2619	3	94 PRECINCT	100 Meserole Ave	NYC Police Station	NA	NYPD
3016	1	SCHOOL SAFETY BKLYN. NO. OFFICE (EAST DISTRICT H.S.)	850 Grand St	Other NYPD Facility	NA	NYPD

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<i>NYPD, FDNY, Courts, and Correctional Facilities</i>						
2776	37	TRAFFIC CONTROL DIV T-301	137 Powers St	Other NYPD Facility	NA	NYPD
2929	53	ENG 206	1201 Grand St	NYC Fire House	NA	FDNY
2203	16	ENG 211, LAD 119	26 Hooper St	NYC Fire House	NA	FDNY
2465	100	ENG 216, LAD 108, BN 35	187 Union Ave	NYC Fire House	NA	FDNY
2406	35	ENG 221, LAD 104	161 S 2 St	NYC Fire House	NA	FDNY
2722	28	ENG 229, LAD 146	75-77 Richardson St	NYC Fire House	NA	FDNY
3102	23	ENG 237	43 Morgan Ave	NYC Fire House	NA	FDNY
2560	50	ENG 238, LAD 106	205 Greenpoint Ave	NYC Fire House	NA	FDNY
2368	12	EMS STATION 28	332 Metropolitan Ave	NYC Emergency Medical Svc	NA	FDNY
2491	51	SPARE FLEET STORAGE FACILITY	59 Paidge Ave	Other FDNY Facility	NA	FDNY

NURSING HOMES, HOSPITALS, HOSPICES, AND AMBULATORY PROGRAMS

Nursing Homes, Hospitals, Hospices, and Hospital Inpatient Units

2230	13	KESER NURSING AND REHABILITATION CENTER, INC.	40 Heyward St	Residential Health Care Facility	200 Beds	NYS DOH

Ambulatory Facilities and Programs

2186	1	BEDFORD MEDICAL FAMILY HEALTH CENTER INC	100 Ross St	Health Center	NA	NYS DOH
2230	4	ODA PRIMARY HEALTH CARE CENTER, INC	14-16 Heyward St	Health Center	NA	NYS DOH
3079	6	CHN - C A B S CLINIC	94-98 Manhattan Ave	Health Center Extension Clinic	NA	NYS DOH
2337	27	JOHNATHAN WILLIAMS HOUSES CHILD HC	118 Roebling St	Health Center Extension Clinic	NA	NYS DOH
2541	5	MANHATTAN AVENUE HEALTH CENTER	960 Manhattan Ave	Health Center Extension Clinic	NA	NYS DOH
2208	16	ODA PRIMARY HEALTH CARE CENTER, INC	420 Broadway	Health Center Extension Clinic	NA	NYS DOH
2169	34	QUALITY HEALTH	138 Division Ave	Health Center Extension Clinic	NA	NYS DOH

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<i>Ambulatory Facilities and Programs</i>						
2157	7501	WILLIAMSBURG FAMILY HEALTH CENTER	99 Division Ave	Health Center Extension Clinic	NA	NYS DOH
2788	33	WILLIAMSBURG HEALTH CENTER	151 Maujer St	Health Center Extension Clinic	NA	NYS DOH
2563	48	GREENPOINT COMMUNITY HEALTH CENTER	875 Manhattan Ave	Hospital Extension Clinic	NA	NYS DOH
3026	1	WILLIAMSBURG DENTAL CLINIC	214 Graham Ave	Hospital Extension Clinic	NA	NYS DOH
2782	24	WOODHULL WILLIAMSBURG ADULT HEALTH CENTER	279 Graham Ave	Hospital Extension Clinic	NA	NYS DOH
3016	1	850 GRAND ST CAMPUS HIGH SCHOOL	850 Grand St	School Based Hospital Extension Clinic	NA	NYS DOH
3025	1	I S 49	223 Graham Ave	School Based Hospital Extension Clinic	NA	NYS DOH
2225	50	YELED V'YALDA CHILDHOOD CENTER	99 Heyward St	School Based Health Center Extension Clinic	NA	NYS DOH

CHEMICAL DEPENDENCY SERVICES

Residential

2407	37	EL REGRESO - CD INTENSIVE RES REHAB	189-191 S 2 St	Intensive Residential Svc - Chem Depndncy	54 Beds	NYS OASAS
2418	45	EL REGRESO CD INTENSIVE RESIDENTIAL	141-143 S 3 St	Intensive Residential Svc - Chem Depndncy	40 Beds	NYS OASAS
2411	6	DAMON HOUSE N Y - COMMUNITY RESID.	310 S 1 St	Community Residential Svc - Chem Depndncy	70 Beds	NYS OASAS

Non-Residential

3119	34	BGR SERVICES CD OUTPATIENT	7 Debevoise St	Outpatient Clinic - Chem Depndncy	NA	NYS OASAS
2406	26	EL REGRESO,INC- CD OUTPATIENT CLINIC	728 Driggs Ave	Outpatient Clinic - Chem Depndncy	NA	NYS OASAS

MENTAL HEALTH SERVICES

Residential

2152	10	PESACH TIKVAH COMMUNITY RESIDENCE I	340 Broadway	Congregate/Treatment - Mental Health	24 Beds	NYS OMH

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Residential						
3049	46	SUS COMMUNITY RESIDENCE V	17-19 Montrose Ave	Congregate/Treatment - Mental Health	48 Beds	NYS OMH
Non-Residential						
2133	13	BRIDGE TO RECOVERY	206 Broadway	Day Treatment - Mental Health	NA	NYS OMH
3079	6	CHN MENTAL HEALTH SERVICES- CABS CENTER	94-98 Manhattan Ave	Day Treatment - Mental Health	NA	NYS OMH
2239	3	PESACH TIKVAH CONTINUING DAY TREATMENT	18 Middleton St	Day Treatment - Mental Health	56 Cert. Capacity	NYS OMH
2239	3	PESACH TIKVAH FAMILY SERVICES CENTER	18 Middleton St	Day Treatment - Mental Health	NA	NYS OMH
2460	8	PUERTO RICAN FAMILY INSTITUTE BROOKLYN MENTAL HEALTH CLINIC	217 Havemeyer St	Day Treatment - Mental Health	NA	NYS OMH
2922	1	WILLIAMSBURG CLINIC	819 Grand St	Day Treatment - Mental Health	NA	NYS OMH
3113	1	WILLIAMSBURG CLINIC	10 Manhattan Ave	Day Treatment - Mental Health	NA	NYS OMH
3016	1	CAMELOT OF STATEN ISLAND,INC.	850 Grand St	School Based Mental Health Program	653 Clients/Year	NYC DOHMH
2460	8	PRFI PARTIAL HOSPITALIZATION PROGRAM	217 Havemeyer St	Hospital Based Intensive Day Service - Mental Health	20 Cert. Capacity	NYS OMH
3026	1	SOCIAL ADULT DAY CARE/BROOKLYN FRIENDSHIP HOUSE	202 Graham Ave	Psychosocial Club - Mental Health	NA	NYS OMH

DEVELOPMENTAL DISABILITIES SERVICES

Residential						
2315	33	CATHOLIC CHARITIES NEIGHBORHOOD SVCS	277 N 8 St	Intermediate Care Facility - Resid Dev Disability	9 Beds	NYS OPWDD
2551	11	CATHOLIC CHARITIES NEIGHBORHOOD SVCS	174 Java St	Intermediate Care Facility - Resid Dev Disability	7 Beds	NYS OPWDD
2359	24	HEARTSHARE HUMAN SERVICES OF NEW YORK	175 Metropolitan Ave	Intermediate Care Facility - Resid Dev Disability	10 Beds	NYS OPWDD
2339	1	MERCY HOME FOR CHILDREN	259 N 5 St	Intermediate Care Facility - Resid Dev Disability	10 Beds	NYS OPWDD
2574	57	MERCY HOME FOR CHILDREN	878 Manhattan Ave	Intermediate Care Facility - Resid Dev Disability	15 Beds	NYS OPWDD

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<u>Block</u>	<u>Lot</u>	<u>Facility Name</u>	<u>Facility Address</u>	<u>Facility Type</u>	<u>Capacity / Type</u>	<u>Oversight Agency</u>
Residential						
2201	35	PESACH TIKVAH	274-276 Division Ave	Intermediate Care Facility - Resid Dev Disability	14 Beds	NYS OPWDD
2792	16	ST VINCENT'S SERVICES, INC.	69 Ten Eyck St	Intermediate Care Facility - Resid Dev Disability	12 Beds	NYS OPWDD
2551	11	CATHOLIC CHARITIES NEIGHBORHOOD SVCS	174 Java St	Community Residence - Dev Disability	5 Beds	NYS OPWDD
2833	12	0235 - BROOKLYN	105-107 Kingsland Ave	Community Residence - Dev Disability	8 Beds	NYS OPWDD
3070	10	EVELYN DOUGLIN CTR SERV. PEOPLE IN NEED	140 Johnson Ave	Community Residence - Dev Disability	4 Beds	NYS OPWDD
3070	10	EVELYN DOUGLIN CTR SERV. PEOPLE IN NEED	140 Johnson Ave	Community Residence - Dev Disability	4 Beds	NYS OPWDD
3070	10	MERCY HOME FOR CHILDREN	140 Johnson Ave	Community Residence - Dev Disability	5 Beds	NYS OPWDD
2136	34	PROVIDER HAMASPIK - KINGS COUNTY	69 S 9 St	Community Residence - Dev Disability	6 Beds	NYS OPWDD
Non-Residential						
2921	23	CATHOLIC CHARITIES NEIGHBORHOOD SVCS	11-29 Catherine St	Day Habilitation - Dev Disability	195 Cert. Capacity	NYS OPWDD
2130	21	HASC CENTER, INC.	83 S 8 St	Day Habilitation - Dev Disability	31 Cert. Capacity	NYS OPWDD
3019	85	MULTI-FUNCTIONAL FAMILY SERVICES, INC.	130 Waterbury St	Day Habilitation - Dev Disability	NA	NYS OPWDD
2136	34	PROVIDER HAMASPIK - KINGS COUNTY	69 S 9 St	Day Habilitation - Dev Disability	NA	NYS OPWDD
2152	7501	PROVIDER HAMASPIK - KINGS COUNTY	293-295 Division Ave	Day Habilitation - Dev Disability	30 Cert. Capacity	NYS OPWDD
2387	32	COMMUNITY ASST. RESOURCES & EXTENDED SVC	465 Grand St	Evaluation and Diagnosis - Dev Disability	NA	NYS OPWDD
2921	23	CATHOLIC CHARITIES NEIGHBORHOOD SERVICES, INC.	11 Catherine St	Recreation - Dev Disability	67 Clients/Year	NYC DOHMH
3019	85	MULTI-FUNCTIONAL FAMILY SERVICES, INC.	130 Waterbury St	Recreation - Dev Disability	NA	NYS OPWDD

DAYCARE AND RESIDENTIAL FACILITIES FOR CHILDREN

Residential

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Residential						
2462	2	SCO FAMILY OF SERVICES (FORMALLY ST. CHRIS OT)	306 Rodney St	Agency Operated Boarding Home for Children	6 Beds	NYC ACS
Daycare and Headstart Facilities						
2220	38	BEDFORD HARRISON DAY CARE CENTER	60 Harrison Ave	Group Day Care - Public	75 Children	NYC DOHMH
3043	1	BUSHWICK UNITED HOUSING DEVELOPMENT FUND CORPORATION	152 Manhattan Ave	Group Day Care - Public	72 Children	NYC DOHMH
2408	32	COMMUNITY AND PARENTS DAY CARE CENTER	243 S 2 St	Group Day Care - Public	58 Children	NYC DOHMH
2867	1	COOPER PARK CHILD CARE CENTER	292 Frost St	Group Day Care - Public	55 Children	NYC DOHMH
3100	78	FENNEL DAY CARE CENTER	175 Moore St	Group Day Care - Public	27 Children	NYC DOHMH
3026	1	GRAHAM CHILD CARE CENTER	222 Graham Ave	Group Day Care - Public	60 Children	NYC DOHMH
2176	1	GRAHAM-WINDHAM CHILD CARE CENTER	110 Taylor St	Group Day Care - Public	55 Children	NYC DOHMH
2642	27	JOHN ORAVECZ CHILD CARE CENTER	25 Nassau Ave	Group Day Care - Public	104 Children	NYC DOHMH
2140	26	JONATHAN WILLIAMS DAY CARE CENTER	321 Roebling St	Group Day Care - Public	101 Children	NYC DOHMH
2451	8	NUESTROS NINOS C.D. SCHOOL	384 S 4 St	Group Day Care - Public	162 Children	NYC DOHMH
2408	32	NUESTROS NINOS CDS @ WILLIAMSBURG DAY CARE	243 S 2 St	Group Day Care - Public	80 Children	NYC DOHMH
2418	31	NUESTROS NINOS DAY CARE CENTER III	161 S 3 St	Group Day Care - Public	35 Children	NYC DOHMH
2276	37	ROBERT F. KENNEDY CHILD CARE CENTER	741 Flushing Ave	Group Day Care - Public	64 Children	NYC DOHMH
2770	1	SMALL WORLD DAY CARE CENTER	211 Ainslie St	Group Day Care - Public	94 Children	NYC DOHMH
3023	32	STAGG STREET CENTER FOR CHILDREN	77 Stagg St	Group Day Care - Public	75 Children	NYC DOHMH
2261	17	YELED V'YALDA TORAH DAY CARE CENTER	12 Franklin Ave	Group Day Care - Public	35 Children	NYC DOHMH
2648	35	ABC CHILD CENTER	109 Nassau Ave	Group Day Care - Private	45 Children	NYC DOHMH
2892	7	AHRC @ FRANCIS OF PAOLA	201 Conselyea St	Group Day Care - Private	180 Children	NYC DOHMH

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Daycare and Headstart Facilities						
2907	7501	CARRIG MONTESSORI SCHOOL	100 Maspeth Ave	Group Day Care - Private	41 Children	NYC DOHMH
3076	6	CONGREGATION AHAVAS SHULEM D'NADVERNA	12 Boerum St	Group Day Care - Private	NA	NYC DOHMH
2436	19	L & A 349 KEAP STREET INC.	349 Keap St	Group Day Care - Private	74 Children	NYC DOHMH
2338	27	METROPOLITAN PRESCHOOLS, INC.	70 Havemeyer St	Group Day Care - Private	48 Children	NYC DOHMH
2250	7	OUR LADY OF GRACE SCHOOL	157 Harrison Ave	Group Day Care - Private	NA	NYC DOHMH
2574	53	ST. ANTHONY-ST. ALPHONSUS SCHOOL	725 Leonard St	Group Day Care - Private	65 Children	NYC DOHMH
3027	1	ST. ATHANASIUS SCHOOL	176 Bushwick Ave	Group Day Care - Private	NA	NYC DOHMH
2700	20	ST. STANISLAUS KOSTKA SCHOOL	189 Driggs Ave	Group Day Care - Private	47 Children	NYC DOHMH
2211	5	TALMUD TORAH TOLDOS HILLEL-KRA	631 Bedford Ave	Group Day Care - Private	NA	NYC DOHMH
3063	33	TIFFERETH MORDE CHAI SHOLOMO	213 Johnson Ave	Group Day Care - Private	27 Children	NYC DOHMH
2239	3	WILLIAMSBURG INFANT & EARLY CHILDHOOD DEVELOPMENT CENTER, INC.	22 Middleton St	Group Day Care - Private	74 Children	NYC DOHMH
2416	1	WILLIAMSBURG NEIGHBORHOOD NURSERY SCHOOL @ CATHOLIC CHARTITES NEIGHBOR	288 Berry St	Group Day Care - Private	39 Children	NYC DOHMH
2344	8	WILLIAMSBURG NORTHSIDE PRESCHOOL	152 N 5 St	Group Day Care - Private	127 Children	NYC DOHMH
2596	1	Y.M.C.A. OF GREATER NEW YORK	99 Meserole Ave	Group Day Care - Private	34 Children	NYC DOHMH
2200	19	YESHIVA ATERES YISROEL	204 Keap St	Group Day Care - Private	15 Children	NYC DOHMH
2203	7	YESHIVA BETH HILLEL OF WILLIAMSBURG	33 Williamsburg St W	Group Day Care - Private	NA	NYC DOHMH
2197	15	YESHIVA BETH YEHUDA V CHAIM DB	52 Keap St	Group Day Care - Private	77 Children	NYC DOHMH
2193	1	YESHIVA BETH YITZCHOK DSPRINKA	575 Bedford Ave	Group Day Care - Private	NA	NYC DOHMH
2210	38	YESHIVA KEHILATH YAKOV	638 Bedford Ave	Group Day Care - Private	64 Children	NYC DOHMH
2210	38	YESHIVA KEHILATH YAKOV CHILD CARE	636 Bedford Ave	Group Day Care - Private	NA	NYC DOHMH

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Daycare and Headstart Facilities						
2200	7503	YESHIVA RUGATH HABOSEM SCHOOL	171 Hooper St	Group Day Care - Private	NA	NYC DOHMH
3024	1	BUSHWICK UNITED HOUSING DEVELOPMENT FUND CORPORATION	178 Leonard St	Head Start Center - Public	39 Children	NYC DOHMH
3043	1	BUSHWICK UNITED HOUSING DEVELOPMENT FUND CORPORATION	152 Manhattan Ave	Head Start Center - Public	37 Children	NYC DOHMH
2416	1	CATHOLIC CHARITIES NEIGHBORHOOD SERVICES INC.	288 Berry St	Head Start Center - Public	45 Children	NYC DOHMH
2203	20	UNITED ACADEMY, INC.	722 Wythe Ave	Head Start Center - Public	240 Children	NYC DOHMH
2166	1	Y.M.Y.W.H.A. OF WILLIAMSBURG, INC.	64 Division Ave	Head Start Center - Public	198 Children	NYC DOHMH
2193	7	YELDA V' YELDA HEAD START	563 Bedford Ave	Head Start Center - Public	50 Children	NYC DOHMH
2200	19	YELED V' YALDA EARLY CHILDHOOD CENTER,INC.	204 Keap St	Head Start Center - Public	38 Children	NYC DOHMH
2261	17	YELED V'YALDA EARLY CHILDHOOD CENTER,INC.	12 Franklin Ave	Head Start Center - Public	90 Children	NYC DOHMH
2183	24	YESHIVA KEHILATH YAKOV, INC.	212-220 Wilson St	Head Start Center - Public	75 Children	NYC DOHMH
2201	25	YESHIVATH KEHILATH YAKOV	274 Keap St	Head Start Center - Public	153 Children	NYC DOHMH
2210	40	YESHIVATH KEHILATH YAKOV	644 Bedford Ave	Head Start Center - Public	18 Children	NYC DOHMH
2235	55	PROJECT SOCIAL CARE HEAD START INC.	40 Lynch St	Head Start Center - Private	58 Children	NYC DOHMH
2151	6	THE PUERTO RICAN FAMILY INSTITUTE, INC.	185 Marcy Ave	Head Start Center - Private	71 Children	NYC DOHMH

FACILITIES FOR SENIORS

Senior Centers

3096	30	BORINQUEN PLAZA NUTRITION PROGRAM	80 Seigel St	Senior Center	4410 Av. Meals/Month	NYC DFTA
2574	53	CCNS MCGUINESS NORTHSIDE SENIOR CENTER	715 Leonard St	Senior Center	3960 Av. Meals/Month	NYC DFTA
2328	25	CCNS NORTHSIDE SENIOR CENTER	179 N 6 St	Senior Center	1590 Av. Meals/Month	NYC DFTA
2867	1	COOPER PARK SENIOR CENTER	288 Frost St	Senior Center	NA	NYC DFTA

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Senior Centers						
3026	1	JASA WILLIAMSBURG SENIOR CENTER	202 Graham Ave	Senior Center	2310 Av. Meals/Month	NYC DFTA
2551	14	KRAKUS LUNCHEON CLUB SENIOR CENTER	176 Java St	Senior Center	4050 Av. Meals/Month	NYC DFTA
2432	25	LOS SURES SENIOR CENTER	201 S 4 St	Senior Center	2160 Av. Meals/Month	NYC DFTA
2770	1	SWINGING 60'S SENIOR CENTER	211 Ainslie St	Senior Center	2550 Av. Meals/Month	NYC DFTA
2225	42	WILLIAMSBURG-SATMAR SENIOR CENTER	125 Heyward St	Senior Center	3450 Av. Meals/Month	NYC DFTA

RESIDENTIAL FACILITIES AND FOOD PROGRAMS FOR ADULTS AND FAMILIES

Residential

3061	18	MOST HOLY TRINITY	157 Graham Ave	State/City-Contracted Permanent Supportive SRO	88 Singles Units	NYC DHS
2993	1	PORTER AVENUE	89-111 Porter Ave	Shelter For Singles - DHS Contracted	262 Beds	NYC DHS
2993	1	PORTER AVENUE VETERANS PROGRAM	89-111 Porter Ave	Shelter For Singles - DHS Contracted	138 Beds	NYC DHS
2885	1	BARBARA S. KLEIMAN SHELTER	300 Skillman Ave	Shelter For Singles - DHS Directly Operated	200 Beds	NYC DHS

Food Programs and Drop-In Centers

3051	18	ACT OF FAITH MINISTRIES	141 Manhattan Ave	Food Pantry	NA	NA
2566	32	GREENPOINT REFORMED CHURCH	136 Milton St	Food Pantry	NA	NA
2400	14	IGLESIA DE DIOS DE LA PROFECIA	333 Union Ave	Food Pantry	NA	NA
3063	33	LA NUEVA ESPERANZA INC.	213 Johnson Ave	Food Pantry	NA	NA
2789	30	MOMENTUM PROJECT INC. @ST. JOHN'S LUTHERAN CHURCH	195 Maujer St	Food Pantry	NA	NA
2418	40	SOUTHSIDE UNITED HDFC INC./LOS SURES SOCIAL SERVIC	145 S 3 St	Food Pantry	NA	NA
2832	8	ST. CECILIA GIFT OF LOVE FOOD PANTRY	84 Herbert St	Food Pantry	NA	NA
2207	1	TRANSFIGURATION CHURCH	263 Marcy Ave	Food Pantry	NA	NA
3061	10	TRINITY HUMAN SERVICE CORP.	153 Johnson Ave	Food Pantry	NA	NA

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<i>Food Programs and Drop-In Centers</i>						
2263	25	UNITED JEWISH ORGANIZATION OF WILLIAMSBURG	186 Wallabout St	Food Pantry	NA	NA

Appendix B
MSDS Sheets
(on CD)

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

Section 1 - Product and Company Identification

Synonyms: # 2 Fuel Oil, regular sulfur diesel, premium high sulfur diesel, marine diesel, Diesel oil, home heating oil, fuel distillate

Chemical Name: Fuel Oil, no. 2

Chemical Family: Hydrocarbon Distillates

Material Use: Fuel for home heating; also for marine and off-road diesel engines

Chemical Formula: Not available; complex mixture

NOVA Chemicals

P.O. Box 2518, Station M

Calgary, Alberta, Canada T2P 5C6

Product Information: 1-412-490-4063

MSDS Information Email:

msdsemail@novachem.com

EMERGENCY Telephone Numbers:

North America (Canada and US):

1-800-561-6682, 1-403-314-8767 (NOVA Chemicals) (24 hours)

1-800-424-9300 (CHEMTREC-USA) (24 hours)

1-613-996-6666 (Canutec-Canada) (24 hours)

Mexico and South America: +44 208 762 8322 (NCEC) (24 hours)

General Comments

This product has been assigned a CAS # of 68476-30-2. CAS # 68476-34-6 for Fuels, diesel, no. 2 may also be used. This product may also be identified as Fuel oils, distillate (light).

Section 2 - Hazards Identification

HMIS Ratings: Health: 1* Fire: 2 Physical Hazard: 0 Personal Protection: chemical goggles, gloves, respirator, coveralls

*Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard*

NFPA Ratings: Health: 1 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Emergency Overview

WARNING! COMBUSTIBLE. Product is a clear to red oily liquid with a kerosene odor. This product burns readily when heated to high temperatures, giving off combustible and toxic vapors. This product is harmful and possibly fatal if swallowed. Small amounts of this product, if aspirated into the lungs, may cause mild to severe injury.

This product is irritating to the eyes and skin. Ingestion or excessive inhalation of this product may result in headache, sleepiness, dizziness, nausea, loss of coordination, and in extreme conditions coma and possibly death. Contains trace components that may cause cancer. Avoid contact. Prevent entry into drains, ditches, sewers, and waterways.

Potential Health Effects: Eyes

This product is irritating to the eyes.

Potential Health Effects: Skin

Prolonged and/or repeated skin contact with this product may cause irritation, blistering and severe dermatitis. Product may be partially absorbed through intact skin. Prolonged or repeated contact with this product may cause allergic-like skin reactions and over time may possibly cause skin cancer.

Potential Health Effects: Ingestion

This product is extremely harmful if swallowed. Ingestion causes vomiting, and cramping; depression of the central nervous system. May also cause central nervous system effects including headache, sleepiness, dizziness, nausea and loss of coordination. Ingestion may cause kidney and liver damage and blood disorders, and in extreme conditions, coma and possibly death. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

Potential Health Effects: Inhalation

This product may be harmful by inhalation. Excessive inhalation of this product may result in heartbeat irregularities and central nervous system effects including headache, sleepiness, dizziness, nausea, loss of coordination, and in extreme conditions, coma and possibly death. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

Section 3 - Composition / Information on Ingredients

CAS #	Component	Percent by Wt.
68476-30-2	Fuel oil, no. 2	100
Not available	Mixed sulfur-containing impurities (as Total Sulfur)	<0.05-0.1
Not Available	Mixed sulfur-containing impurities (as Total Sulfur)	0.1-0.2

Additional Information

This product is a complex mixture of aliphatic, olefinic, naphthenic and aromatic hydrocarbons having a variable boiling range of 190°C to 365°C (374°F to 689°F). This product has been tested and found to have low levels of naphthalene (CAS # 91-20-3) (<0.1% by wt.), methylnaphthalenes (<0.4% by wt.) and other polynuclear aromatic hydrocarbons (< 0.1% by wt.).

This product may or may not contain dye. Dye is added prior to sale to indicate product is **not** for use in on-road diesels.

The actual components and weight % concentrations vary based on operating conditions.

This product is considered to be hazardous under 29 CFR 1910.1200 (Hazard Communication).

This material is a controlled product under Canadian WHMIS regulations.

This material is regulated as a combustible material for transportation in the U.S.A.

See Section 8 for applicable exposure limits. See Section 11 for applicable toxicity data.

Section 4 - First Aid Measures

First Aid: Eyes

Remove contact lenses, if it can be done safely. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

First Aid: Skin

Remove contaminated clothing and shoes. For skin contact, wash immediately with soap and water. Seek medical attention if symptoms develop or persist. Completely decontaminate clothing, shoes and other protective equipment before reuse or discard.

First Aid: Inhalation

Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, unconscious or if any other symptoms persist. **WARNING:** Contact through mouth-to-mouth resuscitation may pose a secondary risk to the rescuer. Avoid mouth-to-mouth contact by using a mouth shield or guard to perform artificial respiration.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.

First Aid: Notes to Physician

For more detailed medical emergency support information call 1-800-561-6682 or 1-403-314-8767 (24 hours, NOVA Chemicals Emergency Response). Ensure thorough eye and skin decontamination. Treat unconsciousness, nausea, hypotension, seizures and cardiac arrhythmias in the conventional manner. Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use the method least likely to cause aspiration, such as gastric lavage after protecting the airway. Observe hospitalized patients for delayed chemical pneumonia, acute tubular necrosis, encephalopathy and dysrhythmias. Monitor for urinary phenol within 72 hours of acute exposure.

Section 5 - Fire Fighting Measures

See Section 9: Physical Properties for flammability limits, flash point and autoignition information.

General Fire Hazards

Fire and container explosion hazards are serious when this product is exposed to heat or flame. Empty containers when heated may pose a fire risk. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Consider need for immediate emergency isolation and evacuation. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

Explosion Hazards

Vapors may form explosive mixture with air. Keep containers away from source of heat or fire. Containers may explode when involved in a fire.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons, acidic gases, nitrogen oxides, sulfur oxides, and other toxic contaminants.

Extinguishing Media

Dry chemical, foam, carbon dioxide, and water spray or fog. Use water to cool fire-exposed containers and to protect personnel. Water spray may be an ineffective extinguishing medium and may actually spread flames. Monitor water run-off for flammability, and prevent from entering drains, ditches and sewers, or other confined or underground spaces.

Fire Fighting Equipment/Instructions

Reference 2008 Emergency Response Guidebook, Guide No. 128 for additional details and instructions. Position upwind. Keep unnecessary personnel away. Move containers from fire area if you can do so without risk. Fight fire from maximum distance or use unmanned holders or monitor nozzles. Immediately withdraw in case of fire and tank venting or heat discoloration of a tank. Fire fighters should wear full-face, self-contained breathing apparatus and thermal protective clothing. Avoid inhaling any smoke and combustion products. Remove and clean or destroy any contaminated clothing. Cool containers with flooding quantities of water until well after the fire is out. Control runoff waters to prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.

Section 6 - Accidental Release Measures

Evacuation Procedures

Isolate area. Keep unnecessary personnel away. Alert stand-by emergency and fire fighting personnel. Monitor surrounding area for build-up of flammable concentrations in air.

Small Spills

Spill or leak area should be isolated immediately for at least 50 meters (164 feet) in all directions. Eliminate ignition sources. Keep upwind and out of low areas. Stop discharge if safe to do so. Contain discharge by booming on water or diking on ground. Remove liquid material with non-sparking approved pumps, skimmers or vacuum equipment. Absorb with DRY earth, sand or other non-combustible material and clean up with non-sparking tools. Prevent entry into sewers, drains, ditches, underground or confined spaces, water intakes and waterways. Shovel material with non-sparking tools into appropriate container for disposal.

Large Spills

Consider downwind evacuation for 300 meters (984 feet). Eliminate ignition sources. Keep upwind and out of low areas. Stop discharge if safe to do so. Contain discharge by booming on water or diking on ground. Remove liquid material with approved non-sparking pumps, skimmers or vacuum equipment. Absorb with DRY earth, sand or other non-combustible material. Soil remediation may be required. Prevent entry into sewers, drains, ditches, underground or confined spaces, water intakes and waterways.

Special Procedures

Contact local police/emergency services and appropriate emergency telephone numbers provided in Section 1. Ensure that statutory and regulatory reporting requirements in the applicable jurisdiction are met. Wear appropriate protective equipment and clothing during cleanup. Individuals without appropriate protective equipment should be excluded from area of spill until cleanup has been completed.

See Section 8 for recommended Personal Protective Equipment and see Section 13 for waste disposal considerations.

Section 7 - Handling and Storage

Handling Procedures

Keep locked up or secured. Handle in fully grounded, properly designed and approved equipment systems that are suitable for flammable liquids. Use with adequate ventilation. Do not ingest or inhale. Collect and flare vents. Keep away from heat and ignition sources. No smoking or open flames permitted in storage, use or handling areas. Dissipate static electricity during transfer by grounding and bonding containers and equipment. Take special precautions when cold cutting or breaking into lines, or when cleaning and disposing of empty containers.

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately. Avoid contact with skin and eyes. Keep away from incompatible materials such as oxidizing agents and acids. Oil-contaminated clothing must be removed and cleaned prior to reuse. After handling, always wash hands thoroughly with soap and water.

Storage Procedures

Storage area should be clearly identified, well-illuminated, clear of obstruction and accessible only to trained and authorized personnel. Adequate security must be provided so that unauthorized personnel do not have access to product. Store in grounded, properly designed and approved vessels and away from incompatible materials. Store and use away from heat, sparks, open flame, or any other ignition source. An anti-static agent may be added to storage tanks to reduce static charge build-up during loading. Store according to applicable regulations for combustible materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers (dry chemical, foam or carbon dioxide)) and flammable gas detectors. Water spray is ineffective for extinguishing fires. Prevent soil contamination. Keep absorbents for leaks and spills readily available. Equip storage tank vents with a flame arrestor. Inspect vents during winter conditions for vapor ice build-up. Storage tanks should be above ground and diked to hold entire contents.

See Section 8: Exposure Controls/Personal Protection for appropriate Personal Protective Equipment. See Section 10 for information on Incompatibilities.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

Refer to published exposure limits - use effective control measures and PPE to maintain worker exposure to concentrations that are below these limits. Ensure that eyewash stations and safety showers are in close proximity to work locations.

B: Component Exposure Limits

ACGIH, OSHA, NIOSH, EPA, Alberta, and Ontario exposure limit lists have been checked for major components listed with CAS registry numbers. Other exposure limits may apply, check with proper authorities.

*NOTE: The Vacated OSHA Permissible Exposure Limits (PELs) are those provided in the 1989 update to OSHA's Air Contaminants Standard 29 CFR 1910.1000. These limits were vacated by the U.S. Court of Appeals, Eleventh Circuit but may be enforceable in some states.

Diesel Fuel/Fuel oil, no. 2 (68476-30-2)

ACGIH: 100 mg/m³ TWA (inhalable fraction and vapor) (as total hydrocarbons)
Skin - potential significant contribution to overall exposure by the cutaneous route
Ontario: 100 mg/m³ TWAEV (as total hydrocarbons, vapour and aerosol)
Absorption through skin, eyes, or mucous membranes

Total Sulfur (CAS # Not Available)

Alberta: 10 mg/m³ TWA (related to Sulphur)

ENGINEERING CONTROLS

Engineering methods to reduce hazardous exposure are preferred controls. Methods include mechanical ventilation (dilution and local exhaust) process or personal enclosure, remote and automated operation, control of process conditions, leak detection and repair systems, and other process modifications. Ensure all exhaust ventilation systems are discharged to outdoors, away from air intakes. Supply sufficient replacement air to make up for air removed by exhaust systems. Administrative (procedure) controls and use of personal protective equipment may also be required.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles are recommended if splashing is possible, or to prevent eye irritation from vapors.

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

Personal Protective Equipment: Skin/Hands/Feet

Use chemically resistant gloves when handling product. Wear chemical-resistant safety footwear with good traction to prevent slipping. Work clothing that sufficiently prevents skin contact should be worn, such as coveralls and/or long sleeves and pants. Fire resistant (i.e., Nomex) or natural fiber clothing (i.e., cotton or wool) is recommended. Synthetic clothing can generate static electricity and is not recommended where flammable vapor releases may occur. Static Dissipative (SD) rated footwear is recommended.

Personal Protective Equipment: Respiratory

If engineering controls and ventilation are not sufficient to prevent buildup of aerosols, vapors or dusts, appropriate NIOSH/MSHA approved air-purifying respirators or self-contained breathing apparatus (SCBA) appropriate for exposure potential should be used. Air supplied breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Personal Protective Equipment: General

Personal protective equipment (PPE) should not be considered a long-term solution to exposure control. Employer programs to properly select, fit, maintain, and train employees to use equipment must accompany PPE. Consult a competent industrial hygiene resource, the PPE manufacturer's recommendation, and/or applicable regulations to determine hazard potential and ensure adequate protection.

Section 9 - Physical & Chemical Properties

Physical State and Appearance:	Oily liquid	Color:	Clear or yellow to red
Odor:	Kerosene-like	Odor Threshold:	Can be detected at low ppm levels
pH:	Not applicable	Vapor Pressure:	Range: 0.75 to 1.5 mm Hg at 20°C (68°F)
Vapor Density @ 0°C (Air=1):	4	Boiling Point:	Range: 190°C to 365°C (374°F to 689°F)
Freezing Point:	-30°C (-22 °F)	Solubility (H2O):	Negligible
Specific Gravity (Water=1):	0.83 at 15°C (59°F)	Evaporation Rate (n-Butyl Acetate=1):	Not available
Viscosity:	Range: 1.8 to 3.4 cSt at 40°C (104°F)	Percent Volatile:	99%
Octanol/H2O Coeff.:	Not available	Auto Ignition:	257°C (495°F)
Flash Point:	Range: 62°C to 100°C (144°F to 212°F)	Flash Point Method:	Pensky-Martens, closed cup
Upper Flammable Limit (UFL):	5-6%	Lower Flammable Limit (LFL):	0.7-1%
Flammability Classification:	Combustible		

Section 10 - Stability & Reactivity Information

Chemical Stability

This product is stable under normal use conditions for shock, vibration, pressure, or temperature.

Chemical Stability: Conditions to Avoid

Keep away from heat, sparks, or open flame.

Incompatibility

May react with strong acids or oxidizing agents. Heated vapors or mists may form explosive mixture with air.

Possibility of Hazardous Reactions or Hazardous Polymerization

Hazardous polymerization not likely to occur.

Corrosivity

Not considered to be corrosive.

Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons, acidic gases, nitrogen oxides, sulfur oxides, and other toxic contaminants.

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

Section 11 - Toxicological Information

A: Acute Toxicity - General Product Information

Similar fuel oil mixtures have been tested under the EPA's High Production Volume (HPV) Chemical Challenge Program for the Gas Oils Category. Fuel oil no. 2 is a very strong skin irritant. It produces severe pneumonitis if inhaled into the lungs. Delayed dermatitis and chemical blistering may develop from contact with the skin. Ingestion causes vomiting, cramping and depression of the central nervous system. Exposure can cause headache, nausea, dizziness, sleepiness, loss of coordination and in extreme conditions coma and possibly death. Fuel oil no. 2 tested positive in the Ames mutagenicity test.

B: Acute Toxicity - LD50/LC50

Fuel oil, no. 2 (68476-30-2)

Oral LD50 Rat: 12 g/kg

C: Chronic Toxicity - General Product Information

Similar fuel oil mixtures have been tested under the EPA's High Production Volume (HPV) Chemical Challenge Program for the Gas Oils Category. Animal skin-painting bioassays have reported evidence of increased dermal irritation, fibrosis, necrosis and tumors, as well as damage to the kidney. Some petroleum distillates (containing >5% polynuclear aromatic hydrocarbons) have been shown to cause skin cancer in laboratory animals following prolonged and frequent skin contact. However, this product contains <0.1 wt% total polynuclear aromatic hydrocarbons.

D: Chronic Toxicity - Carcinogenic Effects

ACGIH, EPA, IARC, OSHA, and NTP carcinogen lists have been checked for selected similar materials or those components with CAS registry numbers.

Fuel oil, no. 2 (68476-30-2)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans (as total hydrocarbons)

IARC: Monograph 45 [1989] (related to Fuel oils, distillate (light)) (Group 3 (not classifiable))

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

Similar fuel oil mixtures have been tested under the EPA's High Production Volume (HPV) Chemical Challenge Program for the Gas Oils Category. Product is largely insoluble in water, and evaporates slowly. Under ambient conditions, this product has low volatility and absorbs quickly in soil. Fuel oil no. 2 has been shown to be toxic to aquatic organisms.

B: Component Analysis - Ecotoxicity - Aquatic/Terrestrial Toxicity

Fuel oil, no. 2 (68476-30-2)

96 Hr LC50 Pimephales promelas: 35 mg/L [flow-through]

48 hr EL50 Daphnia magna= 5.3 mg/L [static]

Environmental Fate/Mobility

Under ambient conditions, the product has low volatility into air. Product is largely insoluble in water, evaporates slowly, and will disperse on water surfaces. Wind and wave action can cause formation of a mousse (emulsion) which may absorb particulates and sink. This product is oily and will rapidly adsorb into soils and sediment. Components can migrate through soil and travel with ground water. Material is considered damaging on direct contact with plants, birds, and water mammals. This product is considered somewhat mobile in soils; varies with soil type, porosity, and other factors.

Persistence/Degradability

Studies have been conducted on various grades of oils, for site remediation, and following water and land spills and recovery. This material is considered ultimately, but not readily, biodegradable. Some components biodegrade quickly while other higher molecular weight components will degrade more slowly. Biodegradation rates depend on oxygenation (aeration), mixing and the presence of appropriate microorganisms.

Bioaccumulation/Accumulation

This product is considered somewhat mobile in soils; varies with soil type, porosity, and other factors. This product will accumulate on the surface of plants, waterfowls and mammals, resulting in serious injury and possible death. Fuel oil no. 2 is rapidly taken up by mussels and retained for more than two weeks. Some aromatic components in Fuel oil no. 2 have a moderate potential for bioaccumulation.

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

Section 13 - Disposal Considerations

U.S./Canadian Waste Number & Descriptions

A: General Product Information

This product may be known to be a hazardous waste according to US and Canadian regulations. The use, mixing or processing of this material may alter this product. Contact federal, provincial/state and local authorities in order to generate or ship a waste material associated with this product to ensure materials are handled appropriately and meet all criteria for disposal of hazardous waste. **DO NOT ATTEMPT TO DISPOSE OF BY UNCONTROLLED IGNITION.** Since emptied containers retain product residue, follow safe handling/label warnings even after container is emptied.

See Section 7: Handling and Storage and Section 8: Exposure Controls/Personal Protection for additional handling information that may be applicable for safe handling and the protection of employees.

Waste generator is advised to carefully consider hazardous properties and control measures needed for other materials that may be found in the waste.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Section 14 - Transportation Information

US DOT Information

Shipping Name: Combustible Liquid, n.o.s. (Fuel oil, No. 2)

UN/NA #: NA1993 **Hazard Class:** Combustible Liquid **Packing Group:** III

Required Label(s): None

Additional Information: 2008 Emergency Response Guidebook, Guide # 128.

Canadian TDG Information

Shipping Name: FUEL OIL

UN #: UN1202 **Hazard Class:** 3 **Packing Group:** III

Required Label(s): FLAMMABLE LIQUID

Additional Information: 2008 Emergency Response Guidebook, Guide # 128.

International Air Transport Association (IATA) and ICAO Regulations

Shipping Name: Not regulated as dangerous goods for transportation

International Maritime Dangerous Goods (IMDG) Regulations

Shipping Name: Not regulated as dangerous goods for transportation

Section 15 - Regulatory Information

A: International Regulations

Component Analysis - International Inventory Status

Component	CAS #	US - TSCA	CANADA - DSL	EU - EINECS
Fuel oil, no. 2	68476-30-2	Yes	Yes	Yes

B: USA Federal & State Regulations

Ongoing occupational hygiene, medical surveillance programs, or site emission or spill reporting may be required by Federal or State regulations. Check for applicable regulations.

USA OSHA Hazard Communication Class

This product/material is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). HCS Classes:
HCS CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).

HCS CLASS: Irritating substance.

HCS CLASS: Target organ effects.

USA Right-to-Know - Federal

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

USA Right-to-Know - State

The following components appear on one or more of the following state hazardous substances lists. Some components (including those present only in trace quantities, and therefore not listed in this document) may be included on the Right-To-Know lists of other U.S. states. The reader is therefore cautioned to contact his or her NOVA Chemicals' representative or NOVA Chemicals' Product Integrity group for further U.S. State Right-To-Know information.

Component	CAS #	NJ	PA
Fuels, diesel, no. 2	68476-34-6	Yes	Yes
Fuel oil, no. 2	68476-30-2	No	Yes
Total Sulfur (*related to Sulfur)	Not available	Yes ¹	Yes ¹

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

C: Canadian Regulations - Federal and Provincial

Canadian Environmental Protection Act (CEPA): All components of this material are on the Domestic Substances List (DSL) or are exempt and are acceptable for use under the provisions of CEPA.

WHMIS Ingredient Disclosure List (IDL)

No components are listed in the WHMIS Ingredient Disclosure List (IDL).

WHMIS Classification

Workplace Hazardous Materials Information System (WHMIS): This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR.

WHMIS CLASS B3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

WHMIS CLASS D2A: Very Toxic.

WHMIS CLASS D2B: Toxic (skin/eye irritant).

Other Regulations

Ongoing occupational hygiene, medical surveillance programs, or site emission or spill reporting may be required by Federal or Provincial regulations. Check for applicable regulations.

Section 16 - Other Information

Label Information

WARNING! COMBUSTIBLE. Product is a clear to red oily liquid with a kerosene odor. This product burns readily when heated to high temperatures, giving off combustible and toxic vapors. This product is harmful and possibly fatal if swallowed. Small amounts of this product, if aspirated into the lungs, may cause mild to severe injury. This product is irritating to the eyes and skin. Ingestion or excessive inhalation of this product may result in headache, sleepiness, dizziness, nausea, loss of coordination, and in extreme conditions coma and possibly death. Contains trace components that may cause cancer. Avoid contact. Prevent entry into drains, ditches, sewers, and waterways.

FIRST AID:

SKIN: Remove contaminated clothing and shoes. For skin contact, wash immediately with soap and water. Seek medical attention if symptoms develop or persist. Completely decontaminate clothing, shoes and other protective equipment before reuse or discard.

EYES: Remove contact lenses, if it can be done safely. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

INHALATION: Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, unconscious or if any other symptoms persist. WARNING: Contact through mouth-to-mouth resuscitation may pose a secondary risk to the rescuer. Avoid mouth-to-mouth contact by using a mouth shield or guard to perform artificial respiration.

INGESTION: DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.

IN CASE OF A LARGE SPILL: Consider downwind evacuation for 300 meters (984 feet). Eliminate ignition sources. Keep upwind and out of low areas. Stop discharge if safe to do so. Contain discharge by booming on water or diking on ground. Remove material with approved non-sparking pumps, skimmers or vacuum equipment. Absorb with DRY earth, sand or other non-combustible material. Soil remediation may be required. Prevent entry into sewers, drains, ditches, underground or confined spaces, water intakes and waterways.

Material Safety Data Sheet

Material Name: **Fuel Oil, #2**

MSDS ID: NOVA-0022

References

Available on request.

Special Considerations

The International Agency for Research on Cancer (IARC) has categorized diesel exhaust as carcinogenic to humans (Class 2A).

Diesel exhaust particulates

NTP: Reasonably Anticipated to be a Human Carcinogen (related to Diesel exhaust particulates)

IARC: Monograph 46 [1989] (related to Diesel engine exhaust) (Group 2A (probably carcinogenic to humans))

For additional information on equipment bonding and grounding, refer to the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity".

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; BLEVE = Boiling Liquid Expanding Vapor Explosion; BOD = Biochemical Oxygen Demand; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Substances; EPA = Environmental Protection Agency; EU = European Union; FDA = Food and Drug Administration; IARC = International Agency for Research on Cancer; IDL = Ingredient Disclosure List; Kow = Octanol/water partition coefficient; LEL = Lower Explosive Limit; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; RCRA = Resource Conservation and Recovery Act; SARA = Superfund Amendments and Reauthorization Act; TDG = Transportation of Dangerous Goods; TSCA = Toxic Substances Control Act.

MSDS Prepared by: NOVA Chemicals

MSDS Information Phone Number: 1-412-490-4063

Other Information

Notice to Reader:

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This is the end of MSDS # NOVA-0022.



From: Avantor Performance Materials, Inc.
Saucon Valley Plaza
3477 Corporate Parkway
Suite #200
Center Valley, PA 18034



All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

ANTIMONY TRIOXIDE

1. Product Identification

Synonyms: Antimony oxide; antimony peroxide

CAS No.: 1309-64-4

Molecular Weight: 291.50

Chemical Formula: Sb₂O₃

Product Codes: 0886, 0887, 5305

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Antimony Trioxide	1309-64-4	99 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES, RESPIRATORY AND GASTROINTESTINAL TRACTS. AFFECTS THE CARDIOVASCULAR SYSTEM.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Life)

Flammability Rating: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Blue (Health)

Potential Health Effects

Inhalation:

Causes irritation to the respiratory tract. Symptoms can include sore throat, cough.

Ingestion:

Ingestion causes irritation to the mouth, nose and stomach. Other symptoms include salivation, cough, metallic taste, nausea, vomiting, bloody diarrhea, dizziness, irritability, and muscular pains. May cause heart to beat irregularly or stop.

Skin Contact:

Causes irritation to skin. Symptoms include redness, itching, and pain.

Eye Contact:

Causes irritation, redness, and pain.

Chronic Exposure:

Prolonged or repeated exposure may damage the liver and the heart muscle. Prolonged skin contact may cause irritation, dermatitis, itching, and pimple eruptions. There is an association between antimony trioxide production and an increased incidence of lung cancer.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, impaired respiratory function, or heart disorders (or disease) may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

A urine test can be used to confirm exposure to antimony trioxide: 1 mg / ml is indicative of potentially harmful exposure. Chelators such as BAL and unithiol have been used in some countries.

5. Fire Fighting Measures

Fire:

Non-combustible, but powdered antimony trioxide may ignite and burn when heated in air.

Explosion:

Not considered to be an explosion hazard. Trivalent antimony compounds tend to form explosive mixtures with perchloric acid.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):

0.5 mg (Sb) m3 (TWA)

-ACGIH Threshold Limit Value (TLV):

0.5 mg (Sb)/m3 (TWA) for handling and use,

A2 suspected human carcinogen for production.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a full facepiece respirator with dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White polymorphic crystals.

Odor:

Odorless.

Solubility:

Insoluble in water @ 25C (77F); Slightly soluble in water @ 100C (212F)

Density:

5.2

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

1425C (2597F)

Melting Point:

655C (1211F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

1 @ 574C (1065F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Toxic metal fumes may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Bromine trifluoride, strong acids, strong bases, reducing agents, perchloric acid, and chlorinated rubber.

Reduction with hydrogen or if used near acids it may form a deadly gas (stibine).

Conditions to Avoid:

Dusting and incompatibles.

11. Toxicological Information

Oral rat LD50: > 20 g/kg; investigated as a mutagen, tumorigen, reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	

Antimony Trioxide (1309-64-4)	No	No	2B

12. Ecological Information

Environmental Fate:

When released into the soil, this material is not expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is not expected to evaporate significantly.

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S. (ANTIMONY TRIOXIDE)
Hazard Class: 6.1
UN/NA: UN1549
Packing Group: III
Information reported for product/size: 30LB

International (Water, I.M.O.)

Proper Shipping Name: ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S. (ANTIMONY TRIOXIDE)
Hazard Class: 6.1
UN/NA: UN1549
Packing Group: III
Information reported for product/size: 30LB

International (Air, I.C.A.O.)

Proper Shipping Name: ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S. (ANTIMONY TRIOXIDE)
Hazard Class: 6.1
UN/NA: UN1549
Packing Group: III
Information reported for product/size: 30LB

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Antimony Trioxide (1309-64-4)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Antimony Trioxide (1309-64-4)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.
Antimony Trioxide (1309-64-4)	No	No	No	Antimony com

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Antimony Trioxide (1309-64-4)	1000	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Australian Hazchem Code: 2X

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 1 Reactivity: 0

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES, RESPIRATORY AND GASTROINTESTINAL TRACTS. AFFECTS THE CARDIOVASCULAR SYSTEM.

Label Precautions:

Avoid breathing dust.

Avoid contact with eyes, skin and clothing.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician.

Product Use:

Laboratory Reagent.

Disclaimer:

THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND AVANTOR PERFORMANCE MATERIALS MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE.

continued

THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, AVANTOR PERFORMANCE MATERIALS ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. AVANTOR PERFORMANCE MATERIALS REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES.

Prepared by: Environmental Health & Safety

ALDRICH CHEMICAL CO INC. -- ARSENIC (III) OXIDE 99.999%, 20267-3 -- 6810-00N016649

===== Product Identification =====

Product ID: ARSENIC (III) OXIDE 99.999%, 20267-3

MSDS Date: 09/10/1987

FSC: 6810

NIIN: 00N016649

MSDS Number: BQTFR

=== Responsible Party ===

Company Name: ALDRICH CHEMICAL CO INC.

Address: 1001 W. ST. PAUL AVE

Box: 355

City: MILWAUKEE

State: WI

ZIP: 53201

Country: US

Info Phone Num: 414-273-3850/FAX -4979

Emergency Phone Num: 414-273-3850

CAGE: 60928

=== Contractor Identification ===

Company Name: ALDRICH CHEMICAL CO INC

Address: 1001 WEST ST PAUL AVE

Box: 355

City: MILWAUKEE

State: WI

ZIP: 53233

Country: US

Phone: 414-273-3850

CAGE: 60928

===== Composition/Information on Ingredients =====

Ingred Name: ARSENIC TRIOXIDE (SARA III)

CAS: 1327-53-3

RTECS #: CG3325000

Fraction by Wt: 99.999%

OSHA PEL: 0.5 MG AS/M3

ACGIH TLV: 0.2 MG AS/M3

EPA Rpt Qty: 1 LB

DOT Rpt Qty: 1 LB

===== Hazards Identification =====

LD50 LC50 Mixture: LD50 (ORAL, RAT): 40 MG/KG

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES

Reports of Carcinogenicity: NTP: YES IARC: YES OSHA: YES

Health Hazards Acute and Chronic: ACUTE: MAY BE FATAL IF INHALED,
SWALLOWED, OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION. CHRONIC:
CARCINOGEN.

Explanation of Carcinogenicity: ARSENIC TRIOXIDE: LISTED AS GROUP 1

CARCINOGEN BY IARC, VOL 7, P. 100, 1987; KNOWN TO BE CARCINOGEN BY
NTP SIXTH (SUPDAT)

Effects of Overexposure: SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid: EYE/SKIN: IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MIN WHILE REMOVING CONTAMINATED CLOTHING AND
SHOES. INHAL: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTF RESP.
IF BRT HG IS DIFFICULT, GIVE OXYGEN. IN CASE OF EXPOSURE, OBTAIN
MEDICAL ATTENTION IMMEDIATELY. WASH THOROUGHLY AFTER HANDLING.

===== Fire Fighting Measures =====

Extinguishing Media:NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE CONDITIONS.
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .
Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

===== Accidental Release Measures =====

Spill Release Procedures:EVAC AREA. WEAR NIOSH/MSHA APPROVED SCBA, RUBBER BOOTS & HEAVY RUBBER GLOVES. WEAR DISPOSABLE COVERALLS & DISCARD THEM AFTER USE. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. VENT AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:HIGHLY TOXIC. STORE IN A COOL DRY PLACE. KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME. AVOID CONTACT WITH ACID AND METALS.
Other Precautions:DO NOT BREATHE DUST. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. CARCINOGEN.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR.
Ventilation:USE ONLY IN A CHEMICAL FUME HOOD.
Protective Gloves:CHEMICAL-RESISTANT GLOVES.
Eye Protection:CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:SAFETY SHOWER AND EYE BATH.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health
WASTE DISPOSAL: WASTE SITE. DESTROY ANY EXCESS SULFIDE WITH SODIUM HYPOCHLORITE. NEUTRALIZE THE SOLUTION BEFORE FLUSHING DOWN THE DRAIN. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS. EXPLAN OF CARCINOGEN: ANNUAL REPORT ON CARCINOGENS, 1991. OSHA REGULATED, 29 CFR 1910.1018, 1 JULY 1992.

===== Physical/Chemical Properties =====

HCC:T2
Spec Gravity:3.738
Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
ACIDS, OXIDIZING AGENTS, HALOGENS.
Stability Condition to Avoid:HEAT. MAY DECOMPOSE ON EXPOSURE TO MOIST AIR OR WATER.
Hazardous Decomposition Products:TOXIC FUMES OF: ARSENIC OXIDES.

===== Disposal Considerations =====

Waste Disposal Methods:THE MATERIAL SHOULD BE DISSOLVED IN 1)WATER; 2)ACID SOLUTION OR 3)OXIDIZED TO A WATER-SOLUBLE STATE. PRECIPITATE THE MATERIAL AS THE SULFIDE, ADJUSTING THE PH OF THE SOLUTION TO 7 TO COMPLETE PRECIPITATION. FILTER THE INSOLUBLE & DISPOSE OF THEM IN A HAZARDOUS WASTE (SUPPLEMENTAL DATA)

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Material Safety Data Sheet

Cobalt, certified powder, mesh 300 and finer

ACC# 05250

Section 1 - Chemical Product and Company Identification

MSDS Name: Cobalt, certified powder, mesh 300 and finer**Catalog Numbers:** C363-100**Synonyms:** Color Index No. 77320.**Company Identification:**

Fisher Scientific

1 Reagent Lane

Fair Lawn, NJ 07410

For information, call: 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7440-48-4	Cobalt	>98	231-158-0

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: silver gray or bluish white or black solid.

Danger! Flammable solid. Can be explosive when exposed to heat or flames. May cause allergic respiratory reaction. Causes eye and skin irritation. May cause allergic skin reaction. May cause lung damage. May cause cancer based on animal studies.**Target Organs:** Lungs, skin.

Potential Health Effects

Eye: Causes eye irritation. May cause conjunctivitis.**Skin:** Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause allergic reaction.**Inhalation:** Causes respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory tract. May cause asthma and shortness of breath.**Chronic:** Repeated exposure may cause sensitization dermatitis. Repeated exposure may cause allergic respiratory reaction (asthma). Chronic inhalation of dust may lead to restricted pulmonary function and interstitial fibrosis.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. Material can spontaneously ignite (pyrophoric) when exposed to air at normal or slightly elevated temperatures. Flammable solid.

Extinguishing Media: Use dry sand or earth to smother fire. DO NOT USE WATER!

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 2; Instability: 1

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Keep away from sources of ignition. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Cobalt	0.02 mg/m ³ TWA	0.05 mg/m ³ TWA (dust and fume) 20 mg/m ³ IDLH (dust and fume)	0.1 mg/m ³ TWA (dust and fume)

OSHA Vacated PELs: Cobalt: 0.05 mg/m³ TWA (dust and fume)

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: silver gray or bluish white or black

Odor: none reported

pH: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not applicable.

Evaporation Rate: Not available.

Viscosity: Not applicable.

Boiling Point: 2870 deg C

Freezing/Melting Point: 1495 deg C

Decomposition Temperature: Not available.

Solubility: Insoluble in water.

Specific Gravity/Density: 8.92

Molecular Formula: Co

Molecular Weight: 58.9332

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, dust generation, strong acids, oxidizers.

Incompatibilities with Other Materials: Pyrophoric cobalt decomposes acetylene in the cold and the metal becomes incandescent. Fused ammonium nitrate can react explosively with powdered cobalt. Pyrophoric cobalt, a black powder, burns brilliantly when exposed to air.

Hazardous Decomposition Products: Oxides of cobalt.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7440-48-4: GF8750000; GF8850000; GG0375000

LD50/LC50:

CAS# 7440-48-4:

Oral, rat: LD50 = 6171 mg/kg;

Carcinogenicity:

CAS# 7440-48-4:

- **ACGIH:** A3 - Confirmed animal carcinogen with unknown relevance to humans
- **California:** carcinogen, initial date 7/1/92 (powder)
- **NTP:** Not listed.
- **IARC:** Group 2B carcinogen

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available.

Neurotoxicity: No data available.

Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	METAL POWDERS, FLAMMABLE, N.O.S.	No information available.
Hazard Class:	4.1	
UN Number:	UN3089	
Packing Group:	III	

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7440-48-4 is listed on the TSCA inventory.

Health & Safety Reporting List

CAS# 7440-48-4: Effective 6/1/87, Sunset 6/1/97

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7440-48-4: immediate, delayed, fire.

Section 313

This material contains Cobalt (CAS# 7440-48-4, >98%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7440-48-4 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Cobalt, a chemical known to the state of California to cause cancer.
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 42/43 May cause sensitization by inhalation and skin contact.

R 53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 22 Do not breathe dust.

S 24 Avoid contact with skin.

S 37 Wear suitable gloves.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 7440-48-4: 1

Canada - DSL/NDSL

CAS# 7440-48-4 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B, D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 7440-48-4 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 12/12/1997

Revision #5 Date: 11/06/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.



From: Avantor Performance Materials, Inc.
Saucon Valley Plaza
3477 Corporate Parkway
Suite #200
Center Valley, PA 18034



24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

Copper, Powder

1. Product Identification

Synonyms: Bronze Powder; C.I. 77400; Arwood Copper

CAS No.: 7440-50-8

Molecular Weight: 63.546

Chemical Formula: Cu

Product Codes: 1728

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
-----	-----	-----	-----
Copper	7440-50-8	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS THE LIVER AND KIDNEYS. CHRONIC EXPOSURE MAY CAUSE TISSUE DAMAGE.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Life)

Flammability Rating: 2 - Moderate

Reactivity Rating: 2 - Moderate

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES;
CLASS D EXTINGUISHER

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Inhalation of dusts and fumes of metallic copper causes irritation of the upper respiratory tract, congestion of nasal mucous membranes, ulceration and perforation of the nasal septum, and pharyngeal congestion. Inhalation of copper fumes may give rise to metal fume fever (high temperature, metallic taste, nausea, coughing, general weakness, muscle aches, and exhaustion).

Ingestion:

Copper ingestion causes nausea, vomiting, abdominal pain, metallic taste, and diarrhea. Ingestion of large doses may cause stomach and intestine ulceration, jaundice, and kidney and liver damage.

Skin Contact:

Causes irritation to skin. Symptoms include redness, itching, and pain. Exposure to copper dust may cause a greenish-black skin discoloration.

Eye Contact:

Small copper particles in the eyes may cause irritation, discoloration, and damage.

Chronic Exposure:

Prolonged or repeated exposure to copper can discolor skin and hair and irritate the skin; may cause mild dermatitis, runny nose, and irritation of the mucous membranes. Repeated ingestion may damage the liver and kidneys. Repeated inhalation can cause chronic respiratory disease.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or impaired liver, kidney, or pulmonary function or pre-existing Wilson's disease may be more susceptible to the effects of this material.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard since the bulk solid does not burn, but very finely divided particles (ultra-fine powder) may burn in air.

Explosion:

Not considered to be an explosion hazard. Reactions with incompatibles may pose an explosion hazard. Liquid copper explodes on contact with water. High concentrations of finely divided copper particles in the air may present an explosion hazard. Sensitive to static discharge.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid exposure to air and moisture. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Copper Dust and Mists, as Cu:

- OSHA Permissible Exposure Limit (PEL) - 1 mg/m³ (TWA)
- ACGIH Threshold Limit Value (TLV) - 1 mg/m³ (TWA)

Copper Fume:

- OSHA Permissible Exposure Limit (PEL) - 0.1 mg/m³ (TWA)
- ACGIH Threshold Limit Value (TLV) - 0.2 mg/m³ (TWA)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece particulate respirator (NIOSH type N100 filters) may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Red Powder.

Odor:

Odorless.

Solubility:

Insoluble in water.

Density:

8.94

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

2595C (4703F)

Melting Point:

1083C (1981F)

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

1 @ 1628C (2962F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Copper becomes dull when exposed to air; on exposure to moist air it gradually converts to the carbonate. On long standing, a white, highly explosive peroxide deposit may form.

Hazardous Decomposition Products:

No information found.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Copper is incompatible with oxidizers, alkalis, acetylene, chlorine plus oxygen difluoride, phosphorus, nitric acid, potassium peroxide, 1-bromo-2-propyne, sulfur plus chlorates. Reacts violently with ammonium nitrate, bromates, iodates, chlorates, ethylene oxide, hydrozoic acid, potassium oxide, dimethyl sulfoxide plus trichloroacetic acid, hydrogen peroxide, sodium peroxide, sodium azide, sulfuric acid, hydrogen sulfide plus air, and lead azide. A potentially explosive reaction occurs with acetylenic compounds. Copper ignites on contact with chlorine, fluorine (above 121C), chlorine trifluoride, and hydrazinum nitrate (above 70C). An incandescent reaction occurs with potassium dioxide.

Conditions to Avoid:

Incompatibles and prolonged exposure to air and moisture.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen and a reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	

Copper (7440-50-8)	No	No	None

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia

Copper (7440-50-8)	Yes	Yes	No	Yes
-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada-- DSL	NDSL	Phil.

Copper (7440-50-8)	Yes	Yes	No	Yes
-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.

Copper (7440-50-8)	No	No	Yes	No
-----\Federal, State & International Regulations - Part 2\-----				
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)	

Copper (7440-50-8)	5000	No	No	
Chemical Weapons Convention: No TSCA 12(b): No CDTA: No				
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No				
Reactivity: No (Pure / Solid)				

Australian Hazchem Code: None allocated.
Poison Schedule: None allocated.
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 0 Reactivity: 0

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS THE LIVER AND KIDNEYS. CHRONIC EXPOSURE MAY CAUSE TISSUE DAMAGE.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust or vapors.

Keep container closed.

Use only with adequate ventilation.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

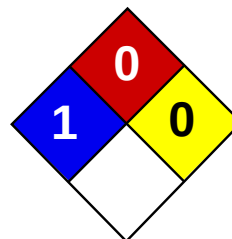
No Changes.

Disclaimer:

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Prepared by: Environmental Health & Safety



Health	1
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

Lead MSDS

Section 1: Chemical Product and Company Identification

Product Name: Lead

Catalog Codes: SLL1291, SLL1669, SLL1081, SLL1459, SLL1834

CAS#: 7439-92-1

RTECS: OF7525000

TSCA: TSCA 8(b) inventory: Lead

CI#: Not available.

Synonym: Lead Metal, granular; Lead Metal, foil; Lead Metal, sheet; Lead Metal, shot

Chemical Name: Lead

Chemical Formula: Pb

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Lead	7439-92-1	100

Toxicological Data on Ingredients: Lead LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

Slightly hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Non-flammable in presence of open flames and sparks, of shocks, of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: When heated to decomposition it emits highly toxic fumes of lead.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable

protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 0.05 (mg/m³) from ACGIH (TLV) [United States] TWA: 0.05 (mg/m³) from OSHA (PEL) [United States] TWA: 0.03 (mg/m³) from NIOSH [United States] TWA: 0.05 (mg/m³) [Canada] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Metal solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 207.21 g/mole

Color: Bluish-white. Silvery. Gray

pH (1% soln/water): Not applicable.

Boiling Point: 1740°C (3164°F)

Melting Point: 327.43°C (621.4°F)

Critical Temperature: Not available.

Specific Gravity: 11.3 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, excess heat

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Can react vigorously with oxidizing materials. Incompatible with sodium carbide, chlorine trifluoride, trioxane + hydrogen peroxide, ammonium nitrate, sodium azide, disodium acetylide, sodium acetylide, hot concentrated nitric acid, hot concentrated hydrochloric acid, hot concentrated sulfuric acid, zirconium.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. May cause damage to the following organs: blood, kidneys, central nervous system (CNS).

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential: Skin: Lead metal granules or dust: May cause skin irritation by mechanical action. Lead metal foil, shot or sheets: Not likely to cause skin irritation Eyes: Lead metal granules or dust: Can irritate eyes by mechanical action. Lead metal foil, shot or sheets: No hazard. Will not cause eye irritation. Inhalation: In an industrial setting, exposure to lead mainly occurs from inhalation of dust or fumes. Lead dust or fumes: Can irritate the upper respiratory tract (nose, throat) as well as the bronchi and lungs by mechanical action. Lead dust can be absorbed through the respiratory system. However, inhaled lead does not accumulate in the lungs. All of an inhaled dose is eventually absorbed or transferred to the gastrointestinal tract. Inhalation effects of exposure to fumes or dust of inorganic lead may not develop quickly. Symptoms may include metallic taste, chest pain, decreased physical fitness, fatigue, sleep disturbance, headache, irritability, reduces memory, mood and personality changes, aching bones and muscles, constipation, abdominal pains, decreasing appetite. Inhalation of large amounts may lead to ataxia, delirium, convulsions/seizures, coma, and death. Lead metal foil, shot, or sheets: Not an inhalation hazard unless metal is heated. If metal is heated, fumes will be released. Inhalation of these fumes may cause "fume metal fever", which is characterized by flu-like symptoms. Symptoms may include metallic taste, fever, nausea, vomiting, chills, cough, weakness, chest pain, generalized muscle pain/aches, and increased white blood cell count. Ingestion: Lead metal granules or dust: The symptoms of lead poisoning include abdominal pain or cramps (lead colic), spasms, nausea, vomiting, headache, muscle weakness, hallucinations, distorted perceptions, "lead line" on the gums, metallic taste, loss of appetite, insomnia, dizziness and other symptoms similar to that of inhalation. Acute poisoning may result in high lead levels in the blood and urine, shock, coma and death in extreme cases. Lead metal foil, shot or sheets: Not an ingestion hazard for usual industrial handling.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information**Federal and State Regulations:**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Lead California prop. 65 (no significant risk level): Lead: 0.0005 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead Connecticut hazardous material survey.: Lead Illinois toxic substances disclosure to employee act: Lead Illinois chemical safety act: Lead New York release reporting list: Lead Rhode Island RTK hazardous substances: Lead Pennsylvania RTK: Lead

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):

R20/22- Harmful by inhalation and if swallowed. R33- Danger of cumulative effects. R61- May cause harm to the unborn child. R62- Possible risk of impaired fertility. S36/37- Wear suitable protective clothing and gloves. S44- If you feel unwell, seek medical advice (show the label when possible). S53- Avoid exposure - obtain special instructions before use.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:21 PM

Last Updated: 11/01/2010 12:00 PM

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From: Avantor Performance Materials, Inc.
Saucon Valley Plaza
3477 Corporate Parkway
Suite #200
Center Valley, PA 18034



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24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

Magnesium Carbonate, n-Hydrate

1. Product Identification

Synonyms: Magnesium (II) Carbonate, Hydrate; Magnesium carbonate (1:1) hydrate

CAS No.: 546-93-0 (USP: 23389-33-5).

Molecular Weight: Not applicable to mixtures.

Chemical Formula: $MgCO_3 \cdot nH_2O$

Product Codes: 2432, 2436, 2437

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Magnesium Carbonate	546-93-0	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion:

Magnesium carbonate is a food additive and non-toxic unless ingested in very large quantities. May cause diarrhea.

Skin Contact:

No adverse effects expected. May cause mild irritation and redness.

Eye Contact:

May cause irritation, redness and pain.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally.

Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

- OSHA Permissible Exposure Limit (PEL):

15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White Powder.

Odor:

Odorless.

Solubility:

Negligible (< 0.1%)

Specific Gravity:

2.95

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

No information found.

Melting Point:

No information found.

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

Not applicable.

Evaporation Rate (BuAc=1):

No information found.

-----		-----	----	----	-----
Magnesium Carbonate (546-93-0)		Yes	Yes	No	Yes
-----\Federal, State & International Regulations - Part 1\-----					
		-SARA 302-		-----SARA 313-----	
Ingredient		RQ	TPQ	List	Chemical Catg.
-----		----		-----	
Magnesium Carbonate (546-93-0)		No	No	No	No
-----\Federal, State & International Regulations - Part 2\-----					
		-RCRA-		-TSCA-	
Ingredient		CERCLA	261.33	8(d)	
-----		----		-----	
Magnesium Carbonate (546-93-0)		No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **1** Flammability: **0** Reactivity: **0**

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

Label Precautions:

Avoid contact with eyes.

Avoid breathing dust.

Use with adequate ventilation.

Wash thoroughly after handling.

Keep container closed.

Label First Aid:

If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes while lifting lower and upper eyelids. Call a physician if irritation persists.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

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Prepared by: Environmental Health & Safety



From: Avantor Performance Materials, Inc.
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24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

Manganese Oxide

1. Product Identification

Synonyms: Manganic oxide; Manganese tetroxide; Manganese sesquioxide; C.I. 77727; Manganomanganic oxide

CAS No.: 1317-35-7

Molecular Weight: 228.81

Chemical Formula: Mn₃O₄

Product Codes: 2548

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Manganese Tetroxide	1317-35-7	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. AFFECTS CENTRAL NERVOUS SYSTEM, BLOOD AND KIDNEYS. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Life)

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

May cause irritation to the respiratory tract. Inhalation can cause a flu-like illness (metal fume fever). This 24- to 48-hour illness is characterized by chills, fever, aching muscles, dryness in the mouth and throat and headache. May cause pleuritis and/or severe or fatal pneumonia.

Ingestion:

May cause abdominal pain and nausea. Although they are poorly absorbed through the intestines, inorganic manganese salts may produce hypoglycemia and decreased calcium blood levels should absorption occur.

Skin Contact:

May cause irritation with redness and pain. Small particles embedded into the skin can cause localized inflammatory reactions.

Eye Contact:

May cause irritation, redness and pain.

Chronic Exposure:

Chronic manganese poisoning can result from excessive inhalation and ingestion exposure and involves impairment of the central nervous system. Early symptoms include sluggishness, sleepiness, and weakness in the legs. Advanced cases have shown fixed facial expression, emotional disturbances, spastic gait, and falling. Illness closely resembles Parkinson's Disease. Kidney effects, blood changes and manganese psychosis also may occur as a result of chronic exposure. Chronic inhalation exposure can cause lung damage.

Aggravation of Pre-existing Conditions:

Persons with impaired respiratory function, psychiatric or neurological disturbances, and nutritional deficiencies may be more susceptible to the effect of this substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

- OSHA Permissible Exposure Limit (PEL):
5 mg/m³ Ceiling for manganese compounds as Mn

- ACGIH Threshold Limit Value (TLV):
0.2 mg/m³ (TWA) for manganese, elemental and inorganic compounds as Mn

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Brown to black Powder.

Odor:

Odorless.

Solubility:

Negligible (< 0.1%)

Density:

4.7

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

No information found.

Melting Point:

1564C (2847F)

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

Not applicable.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of manganese may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Reacts vigorously with strong reducing agents, acids, or bases.

Conditions to Avoid:

Incompatibles.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	

Manganese Tetroxide (1317-35-7)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

```
-----\Chemical Inventory Status - Part 1\-----
Ingredient                                     TSCA  EC   Japan  Australia
-----
Manganese Tetroxide (1317-35-7)              Yes   Yes   Yes    Yes
```

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-----\Chemical Inventory Status - Part 2\-----
Ingredient                                     Korea  --Canada--
                                     DSL    NDSL   Phil.
-----
Manganese Tetroxide (1317-35-7)              Yes   Yes   No     Yes
```

```
-----\Federal, State & International Regulations - Part 1\-----
Ingredient                                     -SARA 302-  -----SARA 313-----
                                     RQ    TPQ      List  Chemical Catg.
-----
Manganese Tetroxide (1317-35-7)              No     No       No    Manganese co
```

```
-----\Federal, State & International Regulations - Part 2\-----
Ingredient                                     CERCLA  -RCRA-  -TSCA-
                                     261.33  8(d)
-----
Manganese Tetroxide (1317-35-7)              No       No       No
```

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **1** Flammability: **0** Reactivity: **0**

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. AFFECTS CENTRAL NERVOUS SYSTEM, BLOOD AND KIDNEYS. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Label Precautions:

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

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Prepared by: Environmental Health & Safety



From: Avantor Performance Materials, Inc.
Saucon Valley Plaza
3477 Corporate Parkway
Suite #200
Center Valley, PA 18034



24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

MERCURY

1. Product Identification

Synonyms: Quicksilver; hydrargyrum; Liquid Silver

CAS No.: 7439-97-6

Molecular Weight: 200.59

Chemical Formula: Hg

Product Codes:

J.T. Baker: 2564, 2567, 2569

Macron: 1278, 1280, 1288

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
-----	-----	-----	-----
Mercury	7439-97-6	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

DANGER! CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. MAY BE FATAL IF SWALLOWED OR INHALED. HARMFUL IF ABSORBED THROUGH SKIN. AFFECTS THE KIDNEYS AND CENTRAL NERVOUS SYSTEM. MAY CAUSE ALLERGIC SKIN REACTION.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 4 - Extreme (Life)

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation:

Mercury vapor is highly toxic via this route. Causes severe respiratory tract damage. Symptoms include sore throat, coughing, pain, tightness in chest, breathing difficulties, shortness of breath, headache, muscle weakness, anorexia, gastrointestinal disturbance, ringing in the ear, liver changes, fever, bronchitis and pneumonitis. Can be absorbed through inhalation with symptoms similar to ingestion.

Ingestion:

May cause burning of the mouth and pharynx, abdominal pain, vomiting, corrosive ulceration, bloody diarrhea. May be followed by a rapid and weak pulse, shallow breathing, paleness, exhaustion, tremors and collapse. Delayed death may occur from renal failure. Gastrointestinal uptake of mercury is less than 5% but its ability to penetrate tissues presents some hazard. Initial symptoms may be thirst, possible abdominal discomfort.

Skin Contact:

Causes irritation and burns to skin. Symptoms include redness and pain. May cause skin allergy and sensitization. Can be absorbed through the skin with symptoms to parallel ingestion.

Eye Contact:

Causes irritation and burns to eyes. Symptoms include redness, pain, blurred vision; may cause serious and permanent eye damage.

Chronic Exposure:

Chronic exposure through any route can produce central nervous system damage. May cause muscle tremors, personality and behavior changes, memory loss, metallic taste, loosening of the teeth, digestive disorders, skin rashes, brain damage and kidney damage. Can cause skin allergies and accumulate in the body. Repeated skin contact can cause the skin to turn gray in color. A suspected reproductive hazard; may damage the developing fetus and decrease fertility in males and females.

Aggravation of Pre-existing Conditions:

Persons with nervous disorders, or impaired kidney or respiratory function, or a history of allergies or a known sensitization to mercury may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Do not allow water runoff to enter sewers or waterways.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Undergoes hazardous reactions in the presence of heat and sparks or ignition. Smoke may contain toxic mercury or mercuric oxide. Smoke may contain toxic mercury or mercuric oxide.

6. Accidental Release Measures

Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from vapor.

Spills: Pick up and place in a suitable container for reclamation or disposal in a method that does not generate misting. Sprinkle area with sulfur or calcium polysulfide to suppress mercury. Do not flush to sewer. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker CINNASORB® and RESISORB® are recommended for spills of this product.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Do not use or store on porous work surfaces (wood, unsealed concrete, etc.). Follow strict hygiene practices. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

- OSHA Acceptable Ceiling Concentration:

mercury and mercury compounds: 0.1 mg/m³ (TWA), skin

- ACGIH Threshold Limit Value (TLV):

inorganic and metallic mercury, as Hg: 0.025 mg/m³ (TWA) skin, A4 Not classifiable as a human carcinogen.

- ACGIH Biological Exposure Indices:

total inorganic mercury in urine (preshift): 35 ug/g creatinine;

total inorganic mercury in blood (end of shift): 15 ug/l.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half-face respirator with a mercury vapor or chlorine gas cartridge may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with a mercury vapor or chlorine gas cartridge may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:
Silver-white, heavy, mobile, liquid metal.

Odor:
Odorless.

Solubility:
Insoluble in water.

Density:
13.55

pH:
No information found.

% Volatiles by volume @ 21C (70F):
100

Boiling Point:
356.7C (675F)

Melting Point:
-38.87C (-38F)

Vapor Density (Air=1):
7.0

Vapor Pressure (mm Hg):
0.0018 @ 25C (77F)

Evaporation Rate (BuAc=1):
4

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:
At high temperatures, vaporizes to form extremely toxic fumes.

Hazardous Polymerization:
Will not occur.

Incompatibilities:
Acetylenes, ammonia, ethylene oxide, chlorine dioxide, azides, metal oxides, methyl silane, lithium, rubidium, oxygen, strong oxidants, metal carbonyls.

Conditions to Avoid:
Heat, flames, ignition sources, metal surfaces and incompatibles.

11. Toxicological Information

Toxicological Data:
Investigated as a tumorigen, mutagen, reproductive effector.

Reproductive Toxicity:
All forms of mercury can cross the placenta to the fetus, but most of what is known has been learned from experimental animals. See Chronic Health Hazards.

Carcinogenicity:
EPA / IRIS classification: Group D1 - Not classifiable as a human carcinogen.

-----\Cancer Lists\-----			
---NTP Carcinogen---			
Ingredient	Known	Anticipated	IARC Category

-----	-----	-----	-----
Mercury (7439-97-6)	No	No	3

12. Ecological Information

Environmental Fate:
 This material has an experimentally-determined bioconcentration factor (BCF) of greater than 100. This material is expected to significantly bioaccumulate.

Environmental Toxicity:
 This material is expected to be toxic to aquatic life. The LC50/96-hour values for fish are less than 1 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: RQ, MERCURY
Hazard Class: 8
UN/NA: UN2809
Packing Group: III
Information reported for product/size: 1LB

International (Water, I.M.O.)

Proper Shipping Name: MERCURY
Hazard Class: 8
UN/NA: UN2809
Packing Group: III
Information reported for product/size: 1LB

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Mercury (7439-97-6)	Yes	Yes	No	Yes
-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Mercury (7439-97-6)	Yes	Yes	No	Yes
-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.
-----	----	----	----	-----

Mercury (7439-97-6)	No	No	Yes	No

-----\Federal, State & International Regulations - Part 2\-----			
		-RCRA-	-TSCA-
Ingredient	CERCLA	261.33	8(d)

Mercury (7439-97-6)	1	U151	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Liquid)

WARNING:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Australian Hazchem Code: 2Z
Poison Schedule: S7
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0
Label Hazard Warning:
DANGER! CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. MAY BE FATAL IF SWALLOWED OR INHALED. HARMFUL IF ABSORBED THROUGH SKIN. AFFECTS THE KIDNEYS AND CENTRAL NERVOUS SYSTEM. MAY CAUSE ALLERGIC SKIN REACTION.
Label Precautions:
Do not get in eyes, on skin, or on clothing. Do not breathe vapor. Keep container closed.
Use only with adequate ventilation. Wash thoroughly after handling.
Label First Aid:
If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases get medical attention immediately.
Product Use: Laboratory Reagent.
Revision Information: No Changes.

Disclaimer:

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continued

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Prepared by: Environmental Health & Safety

Material Safety Data Sheet

Nickel Metal

ACC# 16240

Section 1 - Chemical Product and Company Identification

MSDS Name: Nickel Metal

Catalog Numbers: N40-500

Synonyms:

Company Identification:

Fisher Scientific

1 Reagent Lane

Fair Lawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7440-02-0	NICKEL	100.0	231-111-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white to gray white solid.

Caution! May cause allergic skin reaction. May cause eye irritation. May cause respiratory tract irritation. May cause cancer in humans. May cause liver and kidney damage.

Target Organs: Kidneys, liver, respiratory system.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause severe irritation and possible burns. May cause dermatitis.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. Inhalation of a mist of this material may cause respiratory tract irritation. Breathing Nickel (Dust and Fume) can cause a sore or hole in the "bone" (septum) dividing the inner nose.

Chronic: Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration. May cause respiratory tract cancer.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid if irritation develops or persists. Wash clothing before reuse. Flush skin with plenty of soap and water.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Antidote: There exists several chelation agents. The determination of there use should be made only by qualified medical personnel.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust can be an explosion hazard when exposed to heat or flame.

Extinguishing Media: Confining and smothering is preferable to applying water. DO NOT USE WATER, CO₂, OR FOAM DIRECTLY ON FIRE ITSELF. Use DRY sand, sodium chloride powder, graphite powder, copper powder or Lith-X powder. Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Very fine particles can cause a fire or explosion. Eliminate all ignition sources. Reduce airborne dust and prevent scattering by moistening with water. Sweep up, then place into a suitable container for disposal. Carefully scoop up and place into appropriate disposal container. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash

facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
NICKEL	1.5 mg/m3 TWA (inhalable fraction)	0.015 mg/m3 TWA 10 mg/m3 IDLH	1 mg/m3 TWA

OSHA Vacated PELs: NICKEL: 1 mg/m3 TWA

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: white to gray white

Odor: none reported

pH: Not available.

Vapor Pressure: 1 mm Hg @ 1810 C

Vapor Density: Not available.

Evaporation Rate:Not available.

Viscosity: Not applicable.

Boiling Point: 2730 deg C

Freezing/Melting Point:1455 deg C

Decomposition Temperature:Not available.

Solubility: Insoluble in water.

Specific Gravity/Density:8.90

Molecular Formula:Ni

Molecular Weight:58.69

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Acids, aluminum, ammonia, ammonium nitrate, bromine pentafluoride, ethylene + aluminum, dioxane, fluorine, hydrazine, hydrazoic acid, hydrogen, methanol, nitric acid, nitryl fluoride, organic solvents, oxidants, phosphorus, potassium perchlorate, selenium, sulfur and compounds.

Hazardous Decomposition Products: Toxic and highly flammable nickel carbonyl.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7440-02-0: QR5950000; QR6126100; QR6555000; QR7120000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 7440-02-0:

- **ACGIH:** Not listed.
- **California:** carcinogen, initial date 10/1/89
- **NTP:** Suspect carcinogen
- **IARC:** Group 1 carcinogen (listed as Nickel compounds).

Epidemiology: Epidemiological studies have shown an increased incidence of cancers among nickel refinery workers.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: No information reported.

Physical: No information available.

Other: None.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7440-02-0 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 7440-02-0: 100 lb final RQ (no reporting of releases of this hazardous substance is required)

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7440-02-0: immediate, delayed, fire.

Section 313

This material contains NICKEL (CAS# 7440-02-0, 100.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 7440-02-0 (listed as Nickel compounds) is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 7440-02-0 is listed as a Priority Pollutant under the Clean Water Act. CAS# 7440-02-0 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7440-02-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains NICKEL, a chemical known to the state of California to cause cancer. California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 40 Limited evidence of a carcinogenic effect.

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 22 Do not breathe dust.

S 36 Wear suitable protective clothing.

WGK (Water Danger/Protection)

CAS# 7440-02-0: No information available.

Canada - DSL/NDSL

CAS# 7440-02-0 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 7440-02-0 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 3/19/1998

Revision #5 Date: 10/28/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.



From: Avantor Performance Materials, Inc.
Saucon Valley Plaza
3477 Corporate Parkway
Suite #200
Center Valley, PA 18034



All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

SELENIUM DIOXIDE

1. Product Identification

Synonyms: Selenium oxide; selenious anhydride

CAS No.: 7446-08-4

Molecular Weight: 110.96

Chemical Formula: SeO₂

Product Codes: U995

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Selenium Dioxide /SeO ₂ /	7446-08-4	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

DANGER! MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. HIGHLY TOXIC BY INHALATION OF DUST OR VAPOR. CONTACT CAUSES INTENSE LOCAL IRRITATION OF SKIN AND EYES. TARGET ORGANS: SKIN, EYES, KIDNEY, LIVER, GASTROINTESTINAL TRACT, LUNGS. MAY CAUSE ALLERGIC SKIN REACTION.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison)

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe (Life)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: Blue (Health)

Potential Health Effects

Acute toxicity of soluble selenium compounds is high. A general tissue poison like arsenic, presumably attacking sulphydryl enzymes.

Inhalation:

Highly toxic via inhalation. May cause severe breathing problems that may not appear for several hours after exposure. Irritates the upper respiratory tract. May cause headache, fever, chills.

Ingestion:

Toxic. May be fatal if swallowed. May cause severe stomach problems.

Skin Contact:

May cause skin burns. May be absorbed through the skin in toxic quantities. May cause skin rash. Prolonged contact may cause skin sensitization.

Eye Contact:

Causes eye irritation. May cause "Rose eye", an allergy of the eyelids in which they become puffy.

Chronic Exposure:

Chronic exposure may cause paleness, coated tongue, stomach disorders, nervousness, metallic taste and garlic breath.

Aggravation of Pre-existing Conditions:

Person with a history of asthma, allergies, or known sensitization to selenium, or with a history of other chronic respiratory disease, gastrointestinal disturbances, disorders of the liver or kidneys, or recurrent dermatitis would be expected to be at increased risk from exposure.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Protect from moisture. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):
200 ug (Se)/m³(TWA)

-ACGIH Threshold Limit Value (TLV):
200 ug(Se)/m³(TWA)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece particulate respirator (NIOSH type N100 filters) may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White crystalline powder.

Odor:

Vapor has a pungent sour smell.

Solubility:

28% in water @ 20C (68F).

Specific Gravity:

3.95

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

Not applicable.

Melting Point:

340C (644F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

1 @ 157C (315F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Toxic metal fumes may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Organic materials, phosphorous trichloride, strong acids, ammonia.

Conditions to Avoid:

Moisture and incompatibles.

11. Toxicological Information

Oral rat LD50: 68.1 mg/kg. Investigated as a mutagen, reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	

Selenium Dioxide /SeO2/ (7446-08-4)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SELENIUM COMPOUND SOLID, N.O.S. (SELENIUM DIOXIDE)
Hazard Class: 6.1
UN/NA: UN3283
Packing Group: I
Information reported for product/size: 100G

International (Water, I.M.O.)

Proper Shipping Name: SELENIUM COMPOUND SOLID, N.O.S. (SELENIUM DIOXIDE)
Hazard Class: 6.1
UN/NA: UN3283
Packing Group: I
Information reported for product/size: 100G

International (Air, I.C.A.O.)

Proper Shipping Name: SELENIUM COMPOUND SOLID, N.O.S. (SELENIUM DIOXIDE)
Hazard Class: 6.1
UN/NA: UN3283
Packing Group: III
Information reported for product/size: 100G

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia

Selenium Dioxide /SeO2/ (7446-08-4)	Yes	Yes	Yes	Yes
-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada--		Phil.
		DSL	NDSL	

Selenium Dioxide /SeO2/ (7446-08-4)	Yes	Yes	No	Yes
-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.

Selenium Dioxide /SeO2/ (7446-08-4)	No	No	No	Selenium cmp
-----\Federal, State & International Regulations - Part 2\-----				
Ingredient	CERCLA	-RCRA-		-TSCA-
		261.33	8(d)	

Selenium Dioxide /SeO2/ (7446-08-4)	10	No	No	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0

Label Hazard Warning:

DANGER! MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. HIGHLY TOXIC BY INHALATION OF DUST OR VAPOR. CONTACT CAUSES INTENSE LOCAL IRRITATION OF SKIN AND EYES. TARGET ORGANS: SKIN, EYES, KIDNEY, LIVER, GASTROINTESTINAL TRACT, LUNGS. MAY CAUSE ALLERGIC SKIN REACTION.

Label Precautions:

Do not breathe dust or vapor.

Do not get in eyes, on skin, or on clothing.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases get medical attention immediately.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND AVANTOR PERFORMANCE MATERIALS MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE.

continued

THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, AVANTOR PERFORMANCE MATERIALS ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. AVANTOR PERFORMANCE MATERIALS REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES.

Prepared by: Environmental Health & Safety

Material Safety Data Sheet

Thallium (I) Sulfate, 99.9+%

ACC# 53319

Section 1 - Chemical Product and Company Identification

MSDS Name: Thallium (I) Sulfate, 99.9+%

Catalog Numbers: AC196940000, AC196940100, AC196940500, AC196941000, AC196945000

Synonyms: Dithallium Sulfate.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7446-18-6	Thallium(I) sulfate	99.9+ %	231-201-3

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: fine crystalline powder.

Danger! May be fatal if swallowed. Poison! Harmful if absorbed through the skin. Causes eye and skin irritation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause respiratory tract irritation. May cause reproductive and fetal effects.

Target Organs: Kidneys, liver, cardiovascular system, nervous system.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be absorbed through the skin in harmful amounts. May cause sensitization by skin contact.

Ingestion: May be fatal if swallowed. May cause liver and kidney damage. May cause alopecia (loss of hair). Ingested thallium compounds are extremely toxic, causing convulsions, coma, conjunctivitis, runny nose, polyneuritis, motor and sensory peripheral neuropathy, encephalopathy, arterial hypertension, rapid heart rate, and skin eruptions

Inhalation: May cause respiratory tract irritation. Thallium Sulfate may damage the nervous system causing numbness, "pins and needles," and/or weakness in the hands and feet. (NJHSDB)

Chronic: May cause reproductive and fetal effects. High exposures to Thallium Sulfate can cause nausea, vomiting, diarrhea, salivation, headache, tremors, fatigue, weakness, confusion, convulsions, coma and death. Repeated exposure may cause loss of vision, skin rash and joint pain. (N.Jersey)

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Wash clothing before reuse. Discard contaminated shoes.

Storage: Store in a cool, dry place. Store in a tightly closed container. Poison room locked.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Use only under a chemical fume hood.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Thallium(I) sulfate	none listed	none listed	none listed

OSHA Vacated PELs: Thallium(I) sulfate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Appearance: white - fine

Odor: odorless

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 632 deg C

Decomposition Temperature: Not available.

Solubility: 4.87G/100ML (20°C)

Specific Gravity/Density: 6.7700g/cm³

Molecular Formula: O₄STl₂

Molecular Weight: 504.79

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Oxides of sulfur, thallium fumes.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7446-18-6: XG6800000

LD50/LC50:

CAS# 7446-18-6:

Oral, mouse: LD50 = 23500 ug/kg;

Oral, mouse: LD50 = 23.5 mg/kg;

Oral, rat: LD50 = 16 mg/kg;

Skin, rat: LD50 = 550 mg/kg;

Carcinogenicity:

CAS# 7446-18-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: See actual entry in RTECS for complete information.

Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

Mutagenicity: No information found

Neurotoxicity: No data available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: This substance may be very hazardous to the environment, especially the aquatic environment.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: CAS# 7446-18-6: waste number P115.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	THALLIUM COMPOUNDS, N.O.S.	THALLIUM COMPOUND NOS (THALLIUM (II)
Hazard Class:	6.1	6.1
UN Number:	UN1707	UN1707
Packing Group:	II	II
Additional Info:		SULFATE)

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7446-18-6 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 7446-18-6: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

CAS# 7446-18-6: 100 lb lower threshold TPQ; 10000 lb upper threshold T PQ

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 7446-18-6 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7446-18-6 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T+ N

Risk Phrases:

R 28 Very toxic if swallowed.

R 38 Irritating to skin.

R 48/25 Toxic : danger of serious damage to health by prolonged exposure if swallowed.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 13 Keep away from food, drink and animal feeding stuffs.

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 7446-18-6: 2

Canada - DSL/NDSL

CAS# 7446-18-6 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D1A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 7446-18-6 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997

Revision #5 Date: 3/16/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.



From: Avantor Performance Materials, Inc.
Saucon Valley Plaza
3477 Corporate Parkway
Suite #200
Center Valley, PA 18034



24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

ZINC METAL POWDER

1. Product Identification

Synonyms: Powdered zinc; blue powder; CI77945; CI Pigment Black 16

CAS No.: 7440-66-6

Molecular Weight: 65.37

Chemical Formula: Zn

Product Codes:

J.T. Baker: 4282

Macron: 8681

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
-----	-----	-----	-----
Zinc	7440-66-6	96 - 97%	Yes
Zinc Oxide	1314-13-2	0 - 3%	Yes
Lead	7439-92-1	0 - 0.3%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR. WATER REACTIVE. MAY AFFECT THE GUM TISSUE, CENTRAL NERVOUS SYSTEM, KIDNEYS, BLOOD AND REPRODUCTIVE SYSTEM (lead component).

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Cancer)

Flammability Rating: 2 - Moderate

Reactivity Rating: 2 - Moderate

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

No adverse effects expected but dust may cause mechanical irritation. The effects may be expected to resemble those of inhaling an inert dust; possible difficulty in breathing, sneezing, coughing. When heated, the fumes are highly toxic and may cause fume fever.

Ingestion:

Extremely large oral dosages may produce gastrointestinal disturbances, due both to mechanical effects and the possibility of reaction with gastric juice to produce zinc chloride. Pain, stomach cramps and nausea could occur in aggravated cases.

Skin Contact:

May cause irritation.

Eye Contact:

May cause irritation.

Chronic Exposure:

No adverse health effects expected.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact:

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes.

Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Autoignition temperature: ca. 460C (ca. 860F)

The listed autoignition temperature is for Zinc powder (layer); dust cloud is ca. 680C (1255F). Zinc powder is not pyrophoric but will burn in air at elevated temperatures. Bulk dust in damp state may heat spontaneously and ignite on exposure to air. Releases flammable hydrogen gas upon contact with acids or alkali hydroxides.

Contact with strong oxidizers may cause fire.

Explosion:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media:

Smother with a suitable dry powder (sodium chloride, magnesium oxide, Met-L-X).

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Remove all sources of ignition and provide mild ventilation in area of spill. Substance may be pyrophoric and self-ignite. Clean-up personnel require protective clothing, goggles and dust/mist respirators. Sweep or vacuum up the spill in a manner that does not disperse zinc powder in the air and place the zinc in a closed container for recovery or disposal.

US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None for Zinc metal.

-OSHA Permissible Exposure Limit (PEL):

10 mg/m³ (TWA), for zinc oxide fume

-ACGIH Threshold Limit Value (TLV):

10 mg/m³ (TWA), Inhalable fraction, A4 Not classifiable as a human carcinogen for zinc oxide.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece particulate respirator (NIOSH type N100 filters) may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Gray or bluish-gray powder.

Odor:

Odorless.

Solubility:

Insoluble in water.

Density:

7.14

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

907C (1665F)

Melting Point:

419C (786F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

1 @ 487C (909F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Moist zinc dust can react exothermically and ignite spontaneously in air.

Hazardous Decomposition Products:

Hydrogen in moist air, zinc oxide with oxygen at high temperature. Zinc metal, when melted, produces zinc vapor which oxidizes and condenses in air to form zinc fume.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Zinc powder can react violently with water, sulfur and halogens. Dangerous or potentially dangerous with strong oxidizing agents, lower molecular weight chlorinated hydrocarbons, strong acids and alkalis.

Conditions to Avoid:

Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Zinc: Irritation skin, human: 300 ug/3D-I mild; investigated as a mutagen.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Zinc (7440-66-6)	No	No	None
Zinc Oxide (1314-13-2)	No	No	None
Lead (7439-92-1)	No	No	2B

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia

Zinc (7440-66-6)	Yes	Yes	No	Yes
Zinc Oxide (1314-13-2)	Yes	Yes	Yes	Yes
Lead (7439-92-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada--		
		DSL	NDSL	Phil.

Zinc (7440-66-6)	Yes	Yes	No	Yes
Zinc Oxide (1314-13-2)	Yes	Yes	No	Yes
Lead (7439-92-1)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.

Zinc (7440-66-6)	No	No	Yes	No
Zinc Oxide (1314-13-2)	No	No	No	Zinc compound
Lead (7439-92-1)	No	No	Yes	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)

Zinc (7440-66-6)	1000	No	No
Zinc Oxide (1314-13-2)	No	No	No
Lead (7439-92-1)	10	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No
Reactivity: Yes (Mixture / Solid)

WARNING:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Australian Hazchem Code: 4Y

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 2 Reactivity: 2

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR. WATER REACTIVE. MAY AFFECT THE GUM TISSUE, CENTRAL NERVOUS SYSTEM, KIDNEYS, BLOOD AND REPRODUCTIVE SYSTEM (lead component).

Label Precautions:

Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

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THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, AVANTOR PERFORMANCE MATERIALS ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. AVANTOR PERFORMANCE MATERIALS REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES.

Prepared by: Environmental Health & Safety

1. Product and Company Identification

Material name	ZINC OXIDE
Version #	01
Revision date	06-08-2011
CAS #	1314-13-2
Product Codes	J.T.Baker: 4358 Macron: 32600, 8824, 8825, 8832, 8843
Synonym(s)	Chinese white; zinc white; flowers of zinc; calamine
Manufacturer	Avantor Performance Materials, Inc.
Address	222 Red School Lane Phillipsburg, NJ 08865 US
Customer Service	800-582-2537
24 Hour Emergency	908-859-2151
Chemtrec	800-424-9300

2. Hazards Identification

Emergency overview	CAUTION Product dust may be irritating to eyes, skin and respiratory system.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Skin contact. Eye contact. Ingestion.
Eyes	Dust or powder may irritate eye tissue. If irritation should occur, it is expected to be transient.
Skin	Dust or powder may irritate the skin.
Inhalation	Inhalation of dusts may cause respiratory irritation. Inhalation of powder or fumes may cause metal fume fever.
Ingestion	Expected to be a low ingestion hazard. May cause temporary irritation of the throat, stomach, and gastrointestinal tract.
Target organs	Respiratory system.
Chronic effects	None known.
Potential environmental effects	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
ZINC OXIDE	1314-13-2	99 - 100

4. First Aid Measures

First aid procedures	
Eye contact	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if irritation develops and persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Inhalation	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
Ingestion	Seek medical advice.
Notes to physician	Treat symptomatically.

General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties	This product is not flammable.
Extinguishing media	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Protection of firefighters	
Protective equipment and precautions for firefighters	Firefighters should wear full protective gear. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Keep upwind. Ventilate the area. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Avoid dust formation. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Large Spills: Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water. Never return spills in original containers for re-use. Clean contaminated surface thoroughly. Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Keep formation of airborne dusts to a minimum. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.
Storage	Keep container tightly closed. Store in a well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Material	Type	Value	Form
ZINC OXIDE (1314-13-2)	STEL	10.0000 mg/m3	Respirable fraction.
	TWA	2.0000 mg/m3	Respirable fraction.

U.S. - OSHA

Material	Type	Value	Form
ZINC OXIDE (1314-13-2)	PEL	5.0000 mg/m3	Respirable fraction.
		15.0000 mg/m3	Total dust.
		5.0000 mg/m3	Fume.

Engineering controls	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.
Personal protective equipment	
Eye / face protection	Use tight fitting goggles if dust is generated.
Skin protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: High-efficiency particulate respirator.
General hygiene considerations	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Powder.
Color	White to Yellowish
Odor	Odorless.
Odor threshold	Not available.
Physical state	Solid.
Form	Solid.
pH	6.9 - 7.4
Melting point	3587 °F (1975 °C)
Freezing point	3587 °F (1975 °C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor density	Not available.
Specific gravity	5.607
Relative density	Not available.
Solubility (water)	0.004 g/l at 64°F
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available.
Molecular weight	81.39 g/mol
Molecular formula	O-Zn

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperature conditions.
Conditions to avoid	Excessive heat.
Incompatible materials	Strong oxidizing agents. Chlorinated compounds. Magnesium.
Hazardous decomposition products	Vapors/gases/fumes of: Zinc oxide.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product

ZINC OXIDE (1314-13-2)

Test Results

Acute Inhalation LC50 Mouse: > 5.7 mg/l 4.00 Hours

Acute Oral LD50 Rat: > 5 g/kg

Sensitization

Not a skin sensitizer.

Acute effects

Low hazard for usual industrial or commercial handling.

Local effects

May cause eye irritation. May cause skin irritation. May cause irritation to the respiratory system.

Chronic effects

None known.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Skin corrosion/irritation

May irritate and cause redness and pain.

Epidemiology

No epidemiological data is available for this product.

Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Neurological effects

None known.

Reproductive effects

Contains no ingredient listed as toxic to reproduction

Teratogenicity

No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Symptoms and target organs

Irritant effects.

Further information

Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain.

12. Ecological Information

Ecotoxicological data

Product

ZINC OXIDE (1314-13-2)

Test Results

LC50 Striped bass (*Morone saxatilis*): 0.25 mg/l 48.00 hours

LC50 Water flea (*Daphnia magna*): 0.098 mg/l 48.00 hours

Ecotoxicity

Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in the environment.

Persistence and degradability

The product is not readily biodegradable.

Partition coefficient (n-octanol/water)

Not available

13. Disposal Considerations

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

ZINC OXIDE (CAS 1314-13-2)

1.0 % N982

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

ZINC OXIDE (CAS 1314-13-2)

Listed. N982

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 311 hazardous chemical

Yes

Clean Water Act (CWA)

Priority pollutant

Toxic pollutant

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Australia

Australian Inventory of Chemical Substances (AICS)

Yes

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No

China

Inventory of Existing Chemical Substances in China (IECSC)

Yes

Europe

European Inventory of Existing Commercial Chemical Substances (EINECS)

Yes

Europe

European List of Notified Chemical Substances (ELINCS)

No

Japan

Inventory of Existing and New Chemical Substances (ENCS)

Yes

Korea

Existing Chemicals List (ECL)

Yes

New Zealand

New Zealand Inventory

Yes

Philippines

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

ZINC OXIDE (CAS 1314-13-2)

500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

ZINC OXIDE (CAS 1314-13-2)

Listed.

Saf-T-Data

Health: 2 - Moderate

Flammability: 0 - None

Reactivity: 0 - None

Contact: 1 - Slight

Lab Protective Equip: B - GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: G - Green (General Storage)

16. Labeling Info

Label Hazard Warning

CAUTION

Product dust may be irritating to eyes, skin and respiratory system.

Label Precautions

Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Keep container closed.

Label First Aid

Immediately flush eyes with plenty of water for at least 15 minutes. Flush skin thoroughly with water. If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If ingestion of a large amount does occur, call a poison control center immediately.

17. Other Information

NFPA ratings

Health: 1
Flammability: 0
Instability: 0

Disclaimer

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Issue date

06-08-2011

GENIUM PUBLISHING CORP -- METHYL TERTIARY BUTYL ETHER -- 6810-00N066437

===== Product Identification =====

Product ID:METHYL TERTIARY BUTYL ETHER
MSDS Date:11/01/1990
FSC:6810
NIIN:00N066437
MSDS Number: CBDPS
=== Responsible Party ===
Company Name:GENIUM PUBLISHING CORP
Address:1145 CATALYN ST
City:SCHENECTADY
State:NY
ZIP:12303-1836
Country:US
Info Phone Num:518-377-8854
Emergency Phone Num:518-377-8854
Preparer's Name:MJ ALLISON
CAGE:5Z768
=== Contractor Identification ===
Company Name:GENIUM PUBLISHING CORPORATION
Address:1145 CATALYN ST
Box:City:SCHENECTADY
State:NY
ZIP:12303-1836
Country:US
Phone:518-377-8854
CAGE:5Z768

===== Composition/Information on Ingredients =====

Ingred Name:ETHER, TERT-BUTYL METHYL; (METHYL TERT-BUTYL ETHER) (SARA
313) (CERCLA)
CAS:1634-04-4
RTECS #:KN5250000
Fraction by Wt: 100%
OSHA PEL:N/K
ACGIH TLV:N/K
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SUPDAT:RADICALS. IF PRESENT IS SUFFICIENT CONC, THESE PROD
OF PARTIAL OXIDATION CAN POSE SERIOUS HLTH HAZARD.
RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:NOSE, THROAT, SKIN & CORNEA. ASPIR OF
GASOLINE-MTBE MIX MAY CAUSE LUNG PNEUM. ACUTE:CONT W/EYES (ING 4)
RTECS #:9999999ZZ

Ingred Name:ING 3:OR SKIN MAY CAUSE IRRIT/BURNING @ HIGH CONC. INHAL
MAY RSLT IN NAUS, VOMIT, SEDATION & GEN ATHEsia (CNS & (ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 4:RESP DEPRESS). INGEST OF MTBE MAY RSLT IN ASPIR
PNEUM. CHRONIC:CHRONIC INHAL CAUSES NASAL & TRACHEAL INFLAMM.
RTECS #:9999999ZZ

Ingred Name:FIRST AID:MOUTH IF UNCON/CONVL. IF INGEST, CONSULT MD
IMMED. DO NOT INDUCE VOMIT DUE TO ASPIR PNEUM RISK. IF (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:PERS IS COUGH/CHOCKING, ASPIR MAY HAVE ALREADY
OCCURRED; TRANSPORT TO EMER MED FACILITY. AFTER FIRST AID, (ING 8)

RTECS #:9999999ZZ

Ingrid Name:ING 7:INGEST BECAUSE OF IT'S POOR ABSORBING QUALITIES.
CAREFULLY OBSERVE FOR ANY DEVELOPMENT OF SYSTEMIC SIGNS. (ING 9)
RTECS #:9999999ZZ

Ingrid Name:ING 8:IF LG QTYS OF MTBE INGESTED, SYRUP OF IPECAC IS PREF
TO LAVAGE IN ALERT PATIENT REQ EMESIS. IF ASPIR HAS (ING 10)
RTECS #:9999999ZZ

Ingrid Name:ING 9:OCCURRED, OBTAIN BASELINE CHEST X-RAY & VITAL SIGNS.
LIVER FUNC STUDIES MAY BE INDICATED FOLLOWING (ING 11)
RTECS #:9999999ZZ

Ingrid Name:ING 10:SUBSTANTIAL MTBE EXPOS. PFT'S, CHEST X-RAYS &
SUPPORTIVE CARE MAY BE NEC AFTER ASPIR EXPOSURES.
RTECS #:9999999ZZ

Ingrid Name:SPILL PROC:FOR DISP. FOR LG SPILLS, DIKE FAR AHEAD OF SPILL
TO CNTN. DO NOT ALLOW MTBE TO ENTER ENCLOSED AREAS (ING 13)
RTECS #:9999999ZZ

Ingrid Name:ING 12:(EXPLO)/WATERWAYS. MTBE IS MORE WATER SOL/OTHER
GASOLINE COMPONENTS, SO THERE MAY BE HIGHER MBTE CONC IN (ING 14)
RTECS #:9999999ZZ

Ingrid Name:ING 13:GROUNDWATER WHEN THERE IS SPILL OF GASOLINE-MTBE
MIX. IT ALSO HAS MOD TO HIGH MOBILITY IN SOIL. MTBE IS (ING 15)
RTECS #:9999999ZZ

Ingrid Name:ING 14:POORLY BIODEGRADED BY MICROORGANISMS IN ACTIVATED
SLUDGE. CLEANUP OF GROUNDWATER CONTAM IS DFCLT. WHEN (ING 16)
RTECS #:9999999ZZ

Ingrid Name:ING 15:HIGH AIR-TO-WATER RATIOS ARE USED, AIR STRIPPING SYS
CAN REMOVE MTBE. PROD OF ATM DEGRADATION INCL (ING 17)
RTECS #:9999999ZZ

Ingrid Name:ING 16:T-BUTYL FORMATE, ACETONE, & METHYL RADICALS. FOLLOW
APPLIC OSHA REGS (29 CFR 1910.120).
RTECS #:9999999ZZ

Ingrid Name:OTHER PREC:PROT PROGRAM THAT INCL REGULAR TRAINING,
MAINTENANCE, INSPECTION, & EVAL. AVOID HEAT & IGNIT SOURCES. (ING
19)
RTECS #:9999999ZZ

Ingrid Name:ING 18:PRACTICE GOOD PERSONAL HYGIENE & HOUSEKEEPING
PROCEDURES.
RTECS #:9999999ZZ

Ingrid Name:RESP PROT:SCBA. WARNING! NIOSH/MSHA APPRVD AIR-PURIFYING
RESPS DO NOT PROTECT WORKERS IN OXYG-DEFICIENT ATM.
RTECS #:9999999ZZ

Ingrid Name:VENT:PRODUCTIVITY LOC EXHST VENT IS PREF SINCE IT PVNT
CONTAM DISPERSION INTO WORK AREA BY CONTROLLING IT @ ITS SOURCE.
RTECS #:9999999ZZ

Ingrid Name:HYGIENE PRACT:DRINKING, SMKG, USING TOILET/APPLYING
COSMETICS. CONTAMD EQUIP:NEVER WEAR CONT LENSES IN WORK (ING 23)
RTECS #:9999999ZZ

Ingrid Name:ING 22:AREA; SOFT LENSES MAY ABSORB, & ALL LENSES CONC,
IRRITANTS. REMOVE THIS MATL FROM YOUR SHOES & EQUIP. (ING 24)

RTECS #:9999999ZZ

Ingred Name:ING 23:LAUNDER CONTAM CLOTHING BEFORE WEARING.

RTECS #:9999999ZZ

===== Hazards Identification =====

LD50 LC50 Mixture:LD50:(ORAL,RAT) 4 G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:UPPER RESP TRACT, CNS.

MTBE INGEST & INHAL TOX ARE BASED ON ANIMAL STUDIES. HUMAN EXPOS ARE REPORTED PRIMARILY W/EXPOS TO GASOLINE-MTBE MIX & W/USE OF MTBE IN DISSOLVING GALL BLADDER STONES BY DIRECT INFUSION. RPTS REVEAL MTBE'S PRIMARY ANESTH EFFECT ON CNS. PROGRESSION OF NAUSEA, VOMIT & (EFFECTS OF OVEREXPOSURE)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HEALTH HAZARD:SEDATION FOLLOWED BY GENERAL ANESTHESIS IS

NOTED W/INCREASED EXPOSURE. WARM/BURNING SENSATION IS REPORTED W/GALL

BLADDER IRRITATION. ELEVATED LIVER FUNCTION STUDIES, DUODENAL

INFLAMMATION, KIDNEY FAILURE, BLOOD CELL HEMOLYSIS, & FOUL BREATH ODOR

ARE ALSO NOTED W/THIS PROCEDURE. ANIMAL STUDIES NOTE PRIMARY IRRITATION TO

MUCOUS MEMBRANE (INGESTION)

Medical Condition Aggravated by Exposure:NONE REPORTED.

===== First Aid Measures =====

First Aid:EYES:GENTLY LIFT LIDS & FLUSH IMMEDIATELY & CONTINUOUSLY W/FLOODING

AMOUNTS OF WATER FOR AT LEAST 15 MIN UNTIL TRANSPORTED TO EMERGENCY MEDICAL

FACILITY. CONSULT MEDICAL IMMEDIATELY. SKIN:QUICKLY REMOVE CONTAMINATED CLOTHING.

RINSE W/FLOODING AMOUNTS OF WATER FOR AT LEAST 15 MIN. FOR

RED/BLISTERED SKIN, CONSULT MEDICAL. WASH AFFECTED AREA W/SOAP & WATER.

INHALATION:REMOVE TO FRESH AIR & SUPPORT BREATHING AS NEEDED. INGESTION:NEVER

GIVE ANYTHING BY MOUTH (INGESTION)

===== Fire Fighting Measures =====

Flash Point:<18°F, <-8°C

Lower Limits:1.6%

Upper Limits:8.4%

Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY, OR ALCOHOL FOAM AS EXTINGUISHING MEDIA.

Fire Fighting Procedures:NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT

(INCLUDING GOGGLES, RUB OVER-CLOTHING, GLOVES & BOOTS). IF FEASIBLE, REMOVE

CONTAINERS FROM FIRE-RISK AREA. OTHERWISE (SUPPLEMENTAL DATA)

Unusual Fire/Explosion Hazard:MTBE IS EXTREMELY FLAMMABLE. VAPOR MAY EXPLODE

IF IGNITED IN ENCLOSED AREA/TRAVEL TO SOURCE OF IGNITION & FLASH BACK. AT

TEMPERATURE AT/ABOVE FLASH POINT, MTBE CAN RELEASE VAPORS THAT (SUPPLEMENTAL DATA)

===== Accidental Release Measures =====

Spill Release Procedures:NOTIFY SAFETY PERSONNEL, EVACUATE ALL UNNECESSARY PERSONNEL, REMOVE

ALL HEAT & IGNITION SOURCES, & PROVIDE MAXIMUM EXHAUST-PROOF VENTILATION. CLEANUP

PERSONNEL SHOULD PROTECT AGAINST VAPOR INHALATION & SKIN/EYE CONTACT. TAKE UP

SPIILLED MATERIAL W/NONCOMBUSTIBLE ABSORB MATERIAL & PLACE IN APPROPRIATE CONTAINERS

(INGESTION)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS IN COOL

WELL-VENTILATED AREA AWAY FROM ALL HEAT & IGNITION SOURCES. OUTSIDE/DETACHED

STORAGE MAY BE PREFERRED. AVOID HEAT & IGNITION SOURCES.

Other Precautions:PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. TO PREVENT STATIC

SPARKS, ELECTRIC GROUND & BOND ALL CONTAINERS & EQUIPMENT USED IN SHIPPING,

RECEIVING/TRANSFERRING OPERATIONS IN PRODUCTION & STOR AREAS. AVOID
 INHAL OF VAP & CONT W/SKIN OR EYES. INSTITUTE RESP (ING 18)

===== Exposure Controls/Personal Protection =====

Respiratory Protection:SEEK PROFESSIONAL ADVICE PRIOR TO RESP SELECTION
 & USE. FOLLOW OSHA RESP REGS (29 CFR 1910.134) &, IF NEC, WEAR
 NIOSH/MSHA APPRVD RESP. FOR EMER/NONROUTINE OPERATIONS (CLEANING
 SPILLS, REACTOR VESSELS /STOR TANKS), WEAR NIOSH/MSHA (ING 20)

Ventilation:PROVIDE GEN & LOC EXPLO-PROOF VENT SYS TO MAINTAIN AIRBORNE
 CONC @ LEV THAT PROMOTE WORKER SFTY & (ING 21)

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGG & FSHLD.

Other Protective Equipment:IMPERVIOUS BOOTS, APRONS, & GAUNTLETS. ANSI
 APPRVD EMER EYE WASH & DELUGE SHOWER .

Work Hygienic Practices:NEVER EAT, DRINK/SMOKE IN WORK AREAS. PRACTICE
 GOOD PERSONAL HYGIENE AFTER USING MATL, EXPECIALLY BEFORE
 EATING, (ING 22)

Supplemental Safety and Health

APPEAR/ODOR:MINT OR TERPENE-LIKE ODOR. FIRE FIGHT PROC:USE WATER SPRAY
 TO COOL FIRE-EXPOS CNTNRS. BE AWARE OF RUNOFF FROM FIRE CTL METH.
 DO NOT RELS TO ENCLSD AREAS, SEWERS/WATERWAYS DUE TO POTNTL EXP LO
 & HLTH HAZ MTBE PRESENT. EXPLO HAZ: FORM FLAM MIXS. CNDTNS TO
 AVOID: IN ACID SOLNS. HAZ DECOMP:& METHYL (ING 2)

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:131F,55C

Melt/Freeze Pt:M.P/F.P Text:<166F,<74C

Vapor Pres:245 @ 77F

Spec Gravity:0.7405(20C/4C)

Evaporation Rate & Reference:NOT KNOWN

Solubility in Water:4.8G/100G

Appearance and Odor:A CLEAR, COLORLESS LIQUID WITH A SLIGHT HYDROCARBON
 ODOR WITH A MILD (SUPDAT)

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

INCOMPAT & UNSTABLE W/STRONG OXIDIZING AGENTS, STRONG ACIDS, CAUSTICS,
 AMINES, ALDEHYDES, AMMONIA, & CHLORINATED CMPDS.

Stability Condition to Avoid:HEAT & IGNIT SOURCES. MTBE IS STABLE @
 ROOM TEMP IN CLSD CNTNRS UNDER NORM STOR & HNDLG CNDTNS. MTBE IS
 UNSTABLE (SUPDAT)

Hazardous Decomposition Products:THERM OXIDATIVE DECOMP CAN PRDCE: CO*2
 & H*2O VAP; INCOMPLETE COMBUST:CO, T-BUTYL FORMATE, ACETONE, FORMIC
 ACID (SUPDAT)

===== Disposal Considerations =====

Waste Disposal Methods:CONTACT YOUR SUPPLIER/LICENSED CONTRACTOR FOR
 DETAILED RECOMMENDATIONS. FOLLOW APPLIC FEDERAL, STATE, AND LOCAL
 REGS.

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 assume responsibility for the suitability of this information to their
 particular situation.

SUPELCO,INC. -- BENZO(A)ANTHRACENE 0.1G,48563 -- 6810-00N010656

===== Product Identification =====

Product ID:BENZO(A)ANTHRACENE 0.1G,48563

MSDS Date:05/16/1985

FSC:6810

NIIN:00N010656

MSDS Number: BHYRL

=== Responsible Party ===

Company Name:SUPELCO,INC.

Address:SUPELCO PARK

City:BELLEFONTE

State:PA

ZIP:16823-0048

Info Phone Num:814-359-3441

Emergency Phone Num:814-359-3441

CAGE:HO582

=== Contractor Identification ===

Company Name:SIGMA-ALDRICH INC.

Address:3050 SPRUCE STREET

Box:14508

City:ST. LOUIS

State:MO

ZIP:63103

Country:US

Phone:314-771-5765/414-273-3850X5996

CAGE:54968

Company Name:SUPELCO,INC.

Address:SUPELCO PARK

Box:City:BELLEFONTE

State:PA

ZIP:16823-0048

Phone:814-359-3441

CAGE:HO582

===== Composition/Information on Ingredients =====

Ingred Name:BENZ A ANTHRACENE (SARA III)

CAS:56-55-3

RTECS #:CV9275000

Other REC Limits:N/K

ACGIH TLV:A2 ; 9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

===== Hazards Identification =====

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:SEE SIGNS AND SYMPTOMS OF
OVEREXPOSURE.

Explanation of Carcinogenicity:SUSPECTED HUM CARCIN/KNOWN ANIM CARCIN
(NTP 1985).INADEQ EVID FOR CARC IN HUM,SUFF EVID FOR CARC IN
ANIMALS (IARC 1987).

Effects of Overexposure:EYES/SKIN/INGESTION/INHALATION:N/K .

Medical Cond Aggravated by Exposure:N/K

===== First Aid Measures =====

First Aid:EYES:FLUSH WITH WATER FOR AT LEAST 15 MINUTES.SKIN:FLUSH WITH
LARGE VOLUMES OF WATER.REMOVE CONTAMINATED
CLOTHING.INGESTION:CONTACT PHYSICIAN.INHALATION:IMMEDIATELY MOVE
TO FRESH AIR.GIVE OXYGEN IF B REATHING IS LABORED.IF BREATHING

STOPS,GIVE ARTIFICIAL RESPIRATION.CONTACT PHYSICIAN.

===== Fire Fighting Measures =====

Flash Point:N/K
Lower Limits:N/K
Upper Limits:N/K
Extinguishing Media:CO*2,FOAM,DRY CHEMICAL.
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT .

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP MATERIAL.VENTILATE AREA.AVOID
GENERATING DUST.
Neutralizing Agent:N/K

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN SEALED CONTAINER IN COOL,DRY
LOCATION.KEEP AWAY FROM OXIDIZERS.AVOID GENERATING DUST.
Other Precautions:REPORTED CANCER HAZARD.AVOID EYE OR SKIN CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR
EXPOSURE OF CONCERN .
Ventilation:LOCAL AND GENERAL VENTILATION NECESSARY TO KEEP AIR
CONCENTRATION BELOW LEVEL OF CONCERN .
Protective Gloves:RUBBER
Eye Protection:CHEMICAL WORKERS GOGGLES .
Work Hygienic Practices:N/K
Supplemental Safety and Health
ROUTES OF ENTRY:INHALATION/SKIN/INGESTION .

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:438C,820F
Melt/Freeze Pt:M.P/F.P Text:157C,315F
Decomp Temp:Decomp Text:N/K
Appearance and Odor:PALE YELLOW CRYSTAL.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
OXIDIZING AGENTS.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH
FEDERAL,STATE AND LOCAL REGULATIONS .

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assume responsibility for the suitability of this information to their
particular situation.

Material Safety Data Sheet

Benzo(e)pyrene

ACC# 99790

Section 1 - Chemical Product and Company Identification

MSDS Name: Benzo(e)pyrene

Catalog Numbers: AC105610000, AC105610250, AC105611000, AC329750000, AC329750250

Synonyms: 4,5-Benzopyrene; 1,2-Benzpyrene.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
192-97-2	Benzo[e]pyrene	>90	205-892-7

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow-green crystalline powder.

Warning! Harmful if swallowed, inhaled, or absorbed through the skin. May cause eye and skin irritation. May cause respiratory tract irritation. Cancer suspect agent. The toxicological properties of this material have not been fully investigated.

Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. Harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Harmful if inhaled.

Chronic: Laboratory experiments have resulted in mutagenic effects. Cancer suspect agent. This substance has caused adverse reproductive and fetal effects in laboratory animals.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Benzo[e]pyrene	none listed	none listed	none listed

OSHA Vacated PELs: Benzo[e]pyrene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Appearance: yellow-green

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 180.00 - 182.00 deg C

Decomposition Temperature: Not available.

Solubility: Not available.

Specific Gravity/Density: Not available.

Molecular Formula: C₂₀H₁₂

Molecular Weight: 252.31

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 192-97-2: DJ4200000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 192-97-2:

- **ACGIH:** Not listed.
- **California:** Not listed.
- **NTP:** Suspect carcinogen (listed as Aromatic hydrocarbons, polycyclic).
- **IARC:** Not listed.

Epidemiology: Mortality studies have demonstrated that exposure to coke oven emissions, which contain a variety of PAHs (Polycyclic aromatic hydrocarbons), caused increased incidences of lung and genitourinary cancer mortality in coke oven workers.

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

Mutagenicity: Mutagenic effects have occurred in humans. Mutagenic effects have occurred in experimental animals.

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: No information found.

Physical: No information found.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	TOXIC SOLID, ORGANIC, N.O.S. (Benzo (e) pyrene)	TOXIC SOLID ORGANIC NOS (BENZO PYRENE)
Hazard Class:	6.1	6.1
UN Number:	UN2811	UN2811
Packing Group:	III	III

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 192-97-2 is not listed on the TSCA inventory. It is for research and development use only.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 192-97-2 can be found on the following state right to know lists: New Jersey, (listed as Aromatic hydrocarbons, polycyclic), Pennsylvania, (listed as Aromatic hydrocarbons, polycyclic), Minnesota, (listed as Aromatic hydrocarbons, polycyclic).

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

T

Risk Phrases:

R 45 May cause cancer.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 192-97-2: No information available.

Canada - DSL/NDSL

None of the chemicals in this product are listed on the DSL or NDSL list.

Canada - WHMIS

This product has a WHMIS classification of D1A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 192-97-2 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997

Revision #6 Date: 11/20/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental,

consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

SUPELCO,INC. -- BENZO(B)FLUORANTHENE 50MG,CATALOG NO,48490 -- 6810-00N010747

===== Product Identification =====

Product ID:BENZO(B)FLUORANTHENE 50MG,CATALOG NO,48490

MSDS Date:03/10/1988

FSC:6810

NIIN:00N010747

MSDS Number: BHGVP

=== Responsible Party ===

Company Name:SUPELCO,INC.

Address:SUPELCO PARK

City:BELLEFONTE

State:PA

ZIP:16823-0048

Info Phone Num:814-359-3441

Emergency Phone Num:814-359-3441

CAGE:HO582

=== Contractor Identification ===

Company Name:SIGMA-ALDRICH INC.

Address:3050 SPRUCE STREET

Box:14508

City:ST. LOUIS

State:MO

ZIP:63103

Country:US

Phone:314-771-5765/414-273-3850X5996

CAGE:54968

Company Name:SUPELCO,INC.

Address:SUPELCO PARK

Box:City:BELLEFONTE

State:PA

ZIP:16823-0048

Phone:814-359-3441

CAGE:HO582

===== Composition/Information on Ingredients =====

Ingred Name:BENZO[B]FLUORANTHANE (SARA III)

CAS:205-99-2

RTECS #:CU1400000

Fraction by Wt:

Other REC Limits:N/A MFR

OSHA PEL:A2; 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 N/A MFR

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:SEE SIGN & SYMPTOMS OF OVEREXPOSURE.

Explanation of Carcinogenicity:BENZO(B)FLUORANTHENE:NTP,MAY REASONABLY
BE ANTICIPATED TO BE CARC.IARC,ANIMAL CARCINOGENRPTD ANIMAL (MFR).

Effects of Overexposure:REPORTED ANIMAL CARCINOGEN.

Medical Cond Aggravated by Exposure:

===== First Aid Measures =====

First Aid:EYES:FLUSH WITH PLENTY OF POTABLE WATER FOR AT LEAST 15

MINUTES,THEN OBTAIN PROMPT MEDICAL ATTENTION SKIN:PROMPTLY WASH

SKIN WITH MILD SOAP & LARGE VOLUMES OF WATER REMOVE CONTAMINATED

CLOTHING. CONTACT PHYSICIAN.INHAL:IMMEDIATELY MOVE TO FRESH

AIR.CONTACT PHYSICIAN.INGEST:NEVER GIVE ANYTHING BY MOUTH TO AN
UNCONSCIOUS PERSON,NEVER TRY TO MAKE AN UNCONSCIOUS PERSON
VOMIT.IMMED CONTACT PHYS.

===== Fire Fighting Measures =====

Flash Point:
Lower Limits:
Upper Limits:
Extinguishing Media:CO*2, DRY CHEMICAL
Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS WHEN
FIGHTING A CHEMICAL FIRE (MFR).USE NIOSH/MSHA APPROVED SCBA & FULL
PROTECTIVE EQUIPMENT
Unusual Fire/Explosion Hazard:N/A MFR

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP MATERIAL.AVOID GENERATING DUST.
Neutralizing Agent:

===== Handling and Storage =====

Handling and Storage Precautions:REFRIGERATE IN SEALED CONTAINER.AVOID
GENERATING DUST.PROTECT FROM EXPOSURE TO LIGHT.
Other Precautions:REPORTED CANCER HAZARD.AVOID EYE OR SKIN CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR SELF CONTAINED BREATHING
APPARATUS.NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE
OF CONCERN
Ventilation:USE ONLY IN EXHAUST HOOD.
Protective Gloves:WEAR GLOVES
Eye Protection:SAFETY GLASSES WITH SIDESHIELDS
Work Hygienic Practices:OBSERVE GOOD WORK HYGIENIC PRACTICES
Supplemental Safety and Health

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:N/A MFR
Melt/Freeze Pt:M.P/F.P Text:334 F;168 C
Decomp Temp:Decomp Text:N/F FPN
Vapor Pres:N/A MFR
Vapor Density:N/A MFR
Spec Gravity:N/A MFR
pH:
Evaporation Rate & Reference:N/A MFR
Solubility in Water:N/A MFR
Appearance and Odor:LIGHT YELLOW CRYSTALLINE SOLID.
Percent Volatiles by Volume:N/AMFR
Corrosion Rate:

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
N/A MFR
Stability Condition to Avoid:N/A MFR
Hazardous Decomposition Products:N/A MFR
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====

Waste Disposal Methods:COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR
LOCAL REGULATIONS.

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Material Safety Data Sheet

Benzo[k]fluoranthene, 99+% (tlc)

ACC# 54641

Section 1 - Chemical Product and Company Identification

MSDS Name: Benzo[k]fluoranthene, 99+% (tlc)

Catalog Numbers: AC279730000, AC279732500

Synonyms: 8,9-Benzofluoranthene.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
207-08-9	Benzo[k]fluoranthene, 99+% (TLC)	99%	205-916-6

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow solid.

Danger! Toxic. May be fatal if swallowed. May be fatal if absorbed through the skin. May be fatal if inhaled. Carcinogen. Causes eye and skin irritation. Cancer hazard. Causes digestive and respiratory tract irritation. May cause lung damage.

Target Organs: Lungs, respiratory system.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be fatal if absorbed through the skin.

Ingestion: May be fatal if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May be fatal if inhaled. Causes respiratory tract irritation.

Chronic: May cause cancer according to animal studies.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: Not published.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not breathe dust, mist, or vapor. Do not get on skin or in eyes. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Benzo[k]fluoranthene, 99+% (TLC)	none listed	none listed	none listed

OSHA Vacated PELs: Benzo[k]fluoranthene, 99+% (TLC): No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are

exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: yellow

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 480 deg C @ 760.00mm Hg

Freezing/Melting Point: 216 - 218 deg C

Decomposition Temperature: Not available.

Solubility: Not available.

Specific Gravity/Density: Not available.

Molecular Formula: C₂₀H₁₂

Molecular Weight: 252.32

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Strong oxidants.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 207-08-9: DF6350000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 207-08-9:

- **ACGIH:** Not listed.
- **California:** carcinogen, initial date 7/1/87
- **NTP:** Suspect carcinogen
- **IARC:** Group 2B carcinogen

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: *Salmonella typhimurium* : 10 µg/plate

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. From calc logKow of 6.84, the est bioconc factor for fish is 144. However no accum is likely due to the pres of microsomal mixed funct oxidases which enables it to be metabolised (Lyman,W.J. Handb of chem.prop est meth. Env behaviour of org chem 1982; Santodonato, J. Health and ecol assessment of polynucl arom hydrocarb. 1981) Short-necked clam cultured in artif seawater at 21-25°C for 10 days revealed a decr in benzo[k].. of ca 20% on day 8. When clams were placed in a basket and kept in harbour water, only a small incr in polycycl arom hydrocarb were found.

Environmental: When soil treated with 7 applications of oil sludge containing polynucleated arom. hydrocarb. over a two yr period, was monitored for an additional 18 months, the benzo[k]fluoranthene residue in the soil decreased by 57%. In a static biodegrad. test employing a domestic wastewater inoculum, 50-70% of benzo[k]fluoranthene residue in the soil decreased by 57%. In a static biodegrad. test employing a dometic wastewater inoculum, 50-70% of benzo[k]fluoranthene was degraded in four successive weekkly subcultures (Tabak H.H. 94th An.Mtg.Assoc.Off.Anal.Chem.1981)

Physical: No information available.

Other: Abiotic removal : Demonstrates considerable atmospheric stability. Pollution resulting from emissions can be found far from source. (Bjorseth A. Handbook of polycyclic aromatic hydrocarbons 1983, MArcel Dekker Inc., New York)

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 207-08-9 is not listed on the TSCA inventory. It is for research and development use only.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 207-08-9: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

This material contains Benzo[k]fluoranthene, 99+% (TL (CAS# 207-08-9, 99%)), which is subject to the reporting requirements of Section 313 of SARA Title III and 40

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 207-08-9 is listed as a Priority Pollutant under the Clean Water Act.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 207-08-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Benzo[k]fluoranthene, 99+% (TL, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T

Risk Phrases:

R 45 May cause cancer.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.

WGK (Water Danger/Protection)

CAS# 207-08-9: No information available.

Canada - DSL/NDSL

None of the chemicals in this product are listed on the DSL or NDSL list.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 207-08-9 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

Revision #5 Date: 11/20/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Benzo(g,h,i)perylene, 98+%

ACC# 53817

Section 1 - Chemical Product and Company Identification

MSDS Name: Benzo(g,h,i)perylene, 98+%

Catalog Numbers: AC105550000, AC105550050, AC105551000

Synonyms: 1,12-Benzoperylene

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
191-24-2	Benzo(g,h,i)perylene	98	205-883-8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow flakes.

Caution! May cause eye and skin irritation. May cause respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: None.

Potential Health Effects

Eye: Dust may cause mechanical irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: Inhalation of dust may cause respiratory tract irritation.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Benzo(g,h,i)perylene	none listed	none listed	none listed

OSHA Vacated PELs: Benzo(g,h,i)perylene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Flakes

Appearance: yellow

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: > 500 deg C @ 760.00mm Hg

Freezing/Melting Point: 277.00 - 279.00 deg C

Decomposition Temperature: Not available.

Solubility: Not available.

Specific Gravity/Density: Not available.

Molecular Formula: C₂₂H₁₂

Molecular Weight: 276.33

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 191-24-2: DI6200500

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 191-24-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: Considered to be persistent, bioaccumulative, and toxic. Even when released in very

small amounts, can accumulate and cause environmental problems.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	TOXIC SOLID ORGANIC NOS (BENZO PERYLENE)
Hazard Class:		6.1
UN Number:		UN2811
Packing Group:		I

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 191-24-2 is not listed on the TSCA inventory. It is for research and development use only.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 191-24-2: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

This material contains Benzo(g,h,i)perylene (CAS# 191-24-2, 98%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 191-24-2 is listed as a Priority Pollutant under the Clean Water Act.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 191-24-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available.

Risk Phrases:**Safety Phrases:**

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

WGK (Water Danger/Protection)

CAS# 191-24-2: No information available.

Canada - DSL/NDSL

None of the chemicals in this product are listed on the DSL or NDSL list.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 191-24-2 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 7/20/1998

Revision #4 Date: 11/20/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Chrysene, ca. 90-95%

ACC# 94883

Section 1 - Chemical Product and Company Identification

MSDS Name: Chrysene, ca. 90-95%

Catalog Numbers: AC110310000, AC110310010

Synonyms: 1,2-Benzophenanthrene; Benzo(a)phenanthrene; 1,2,5,6-Dibenzonaphthalene.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
218-01-9	Chrysene	90-95	205-923-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: very light beige solid.

Caution! Carcinogen. May cause eye and skin irritation. May cause respiratory tract irritation. May cause cancer in humans.

Target Organs: Liver, skin.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation.

Chronic: May cause cancer according to animal studies.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: Not applicable.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: ; Flammability: 1; Instability:

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash thoroughly after handling. Use only in a well-ventilated area. Do not breathe dust, mist, or vapor. Do not get on skin or in eyes. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store in a cool, dry area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Chrysene	0.2 mg/m ³ TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m ³ TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m ³ IDLH (listed under Coal tar pitches).	0.2 mg/m ³ TWA (benzene soluble fraction) (listed under Coal tar pitches).

OSHA Vacated PELs: Chrysene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: very light beige

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 448 deg C @ 760 mm Hg

Freezing/Melting Point: 250-255 deg C

Decomposition Temperature: Not available.

Solubility: insoluble

Specific Gravity/Density: Not available.

Molecular Formula: C₁₈H₁₂

Molecular Weight: 228.29

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 218-01-9: GC0700000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 218-01-9:

- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **California:** carcinogen, initial date 1/1/90
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: Chrysene was mutagenic to *S. Typhimurium* in the presence of an exogenous metabolic system.

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Water flea LC50 = 1.9 mg/L; 2 Hr.; Unspecified Fish toxicity : LC50 (96hr) *Neaethes arenacedentata* >1ppm.(Rossi,S.S. et al Marine Pollut. Bull. 1978) Invertebrate toxicity : lethal threshold concentration (24hr) *Daphnia Magna* 0,7æg/l.(* Newsted,J.L. et al Environ. Toxicol. Chem. 1987) Bioaccumulation : 24hr *Daphnia Magna* log bioconcentration factor 3.7845 (*)

Environmental: Degradation studies : biodegraded by white rot fungus (Proc.Annu.Meet.Am.Wood-Preserv.Assoc.1989) May be utilised by axenic cultures of microorganisms e.g. *Pseudomonas pancimobilis* EPA505, which may have novel degradative systems(Mueller,J.G. et al ppl.Environ.Microbiol.1990; Mueller, J.G. et al Environ.Sci.Technol.1991).

Physical: Not found.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series:

CAS# 218-01-9: waste number U050.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 218-01-9 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 218-01-9: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

This material contains Chrysene (CAS# 218-01-9, 90-95%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 218-01-9 is listed as a Priority Pollutant under the Clean Water Act.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 218-01-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Chrysene, a chemical known to the state of California to cause cancer. California No Significant Risk Level: CAS# 218-01-9: 0.35 æg/day NSRL (oral)

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T

Risk Phrases:

R 45 May cause cancer.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 218-01-9: No information available.

Canada - DSL/NDSL

CAS# 218-01-9 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 218-01-9 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 6/30/1999

Revision #6 Date: 11/20/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Dibenz[a,h]anthracene, 99% (UV-Vis)

ACC# 66416

Section 1 - Chemical Product and Company Identification

MSDS Name: Dibenz[a,h]anthracene, 99% (UV-Vis)

Catalog Numbers: AC406430000, AC406430010, AC406432500

Synonyms: 1,2:5,6-Dibenz(a)anthracene.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
53-70-3	Dibenz[a,h]anthracene	99	200-181-8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: off-white solid.

Caution! May cause eye and skin irritation. May cause respiratory tract irritation. Cancer suspect agent.

Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation.

Chronic: May cause cancer in humans.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Remove contaminated clothing and shoes.

Ingestion: Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Dibenz[a,h]anthracene	none listed	none listed	none listed

OSHA Vacated PELs: Dibenz[a,h]anthracene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant

respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: off-white

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 265 deg C

Decomposition Temperature: Not available.

Solubility: Not available.

Specific Gravity/Density: Not available.

Molecular Formula: C₂₂H₁₄

Molecular Weight: 278.34

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials: Oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

RTECS#:

CAS# 53-70-3: HN2625000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 53-70-3:

- **ACGIH:** Not listed.
- **California:** carcinogen, initial date 1/1/88
- **NTP:** Suspect carcinogen
- **IARC:** Group 2A carcinogen

Epidemiology: No information available.

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. LC50 *Neanthes arenaceodentata* = >1 ppm/96 hour in a static bioassay /Other conditions of bioassay not specified.

Environmental: Terrestrial: Expected to be immobile in soil. Aquatic: Expected to adsorb to suspended solids and sediment in water. Atmospheric: Expected to exist solely in the particulate phase in the ambient atmosphere. Expected to biodegrade and bioconcentrate.

Physical: No information available.

Other: For more information, see "HANDBOOK OF ENVIRONMENTAL FATE AND EXPOSURE DATA."

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series:

CAS# 53-70-3: waste number U063.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	DYE SOLID TOXIC NOS (DIBENZ(A,H)
Hazard Class:		6.1
UN Number:		UN3143
Packing Group:		II
Additional Info:		ANTHRACENE)

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 53-70-3 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 53-70-3: 1 lb final RQ; 0.454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

This material contains Dibenz[a,h]anthracene (CAS# 53-70-3, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 53-70-3 is listed as a Priority Pollutant under the Clean Water Act.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 53-70-3 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Dibenz[a,h]anthracene, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: CAS# 53-70-3: 0.2 µg/day NSRL

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T N

Risk Phrases:

R 45 May cause cancer.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 53-70-3: No information available.

Canada - DSL/NDSL

CAS# 53-70-3 is listed on Canada's NDSL List.

Canada - WHMIS

This product has a WHMIS classification of D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 53-70-3 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

Revision #5 Date: 11/20/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Dibenzofuran, 99+%

ACC# 12084

Section 1 - Chemical Product and Company Identification

MSDS Name: Dibenzofuran, 99+%

Catalog Numbers: AC217030000, AC217030050, AC217030500

Synonyms: Diphenylene oxide; 2,2'-Biphenylene oxide; Dibenzo(b,d)furan.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
132-64-9	Dibenzofuran	>99	205-071-3

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white solid.

Warning! Causes eye irritation. May cause skin and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: Eyes.

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial

respiration. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: 130 deg C (266.00 deg F)

Autoignition Temperature: Not applicable.

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Local exhaust may be necessary to control concentrations to acceptable levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Dibenzofuran	none listed	none listed	none listed

OSHA Vacated PELs: Dibenzofuran: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN

149.

Section 9 - Physical and Chemical Properties

Physical State: Solid**Appearance:** white**Odor:** Not available.**pH:** Not available.**Vapor Pressure:** .0044 mm Hg @ 25 deg C**Vapor Density:** 5.8 (air=1)**Evaporation Rate:** Not available.**Viscosity:** Not available.**Boiling Point:** 285 deg C @ 760 mm Hg**Freezing/Melting Point:** 81 - 85 deg C**Decomposition Temperature:** Not available.**Solubility:** Insoluble.**Specific Gravity/Density:** Not available.**Molecular Formula:** C₁₂H₈O**Molecular Weight:** 168.19

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.**Conditions to Avoid:** Dust generation, excess heat.**Incompatibilities with Other Materials:** Strong oxidizing agents.**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.**Hazardous Polymerization:** Has not been reported.

Section 11 - Toxicological Information

RTECS#:**CAS#** 132-64-9: HP4430000**LD50/LC50:**

Not available.

Carcinogenicity:

CAS# 132-64-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found.**Teratogenicity:** No information found.**Reproductive Effects:** No information found.**Mutagenicity:** See actual entry in RTECS for complete information.**Neurotoxicity:** No information found.**Other Studies:**

Section 12 - Ecological Information

Ecotoxicity: No data available. Fish toxicity : time to produce sickness at 5 ppm : brown trout 4 hr.; bluegill sunfish 6 hr; goldfish 6 hr. All species died within 8 hr. Time to produce sickness at 1 ppm : brown trout 22 hr. Water characteristics for tests were pH7, dissolved oxygen conc. 7.5 ppm, total hardness 300ppm (soap method), methyl orange alkalinity 310ppm, free carbon dioxide 5 ppm, temperature 35°C (USEPA August 1987. Part I : The toxicity of 3400 chemicals to fish EPA 560/6-87-002)

Environmental: Considered to be persistent, bioaccumulative, and toxic. Even when released in very small amounts, can accumulate and cause environmental problems.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Please contact Fisher Scientific for shipping information	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 132-64-9 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 132-64-9: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

This material contains Dibenzofuran (CAS# 132-64-9, >99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 132-64-9 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 132-64-9 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available.

Risk Phrases:**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 132-64-9: No information available.

Canada - DSL/NDSL

CAS# 132-64-9 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997

Revision #4 Date: 10/14/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Fluoranthene, 98%

ACC# 80991

Section 1 - Chemical Product and Company Identification

MSDS Name: Fluoranthene, 98%**Catalog Numbers:** AC119170000, AC119170250, AC119171000, AC119175000**Synonyms:** 1,2-(1,8-Naphthalenediyl)benzene; 1,2-(1,8-Naphthylene)benzene; 1,2-Benzacenaphthene; Benzene, 1,2-(1,8-naphthylene)-; Benzo(j,k)fluorene; Benzo(jk)fluoranthene; Benzo(jk)fluorene**Company Identification:**

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01**For emergencies in the US, call CHEMTREC:** 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
206-44-0	Fluoranthene	98	205-912-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow needles.**Caution!** Harmful. Causes eye and skin irritation and possible burns. May be harmful if absorbed through the skin. May be harmful if swallowed. May cause heart and liver injury.**Target Organs:** Heart, liver, lungs.

Potential Health Effects

Eye: Causes eye irritation and possible burns.**Skin:** May be harmful if absorbed through the skin. Causes severe skin irritation and possible burns.**Ingestion:** May be harmful if swallowed. May cause rapid heartbeat and cardiac arrhythmias. May cause liver injury, pulmonary edema, and respiratory arrest. May cause gastrointestinal disturbances such as nausea.**Inhalation:** May cause effects similar to those described for ingestion. May produce cardiac failure and pulmonary edema.**Chronic:** Prolonged or repeated skin contact may cause defatting and dermatitis.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Do not breathe dust.

Storage: Keep containers tightly closed. Store in a cool, dry area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Fluoranthene	none listed	none listed	none listed

OSHA Vacated PELs: Fluoranthene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Needles

Appearance: yellow

Odor: None reported.

pH: Not available.

Vapor Pressure: 0.01 mm Hg @ 20 deg C

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 384 deg C @ 760.00mmHg

Freezing/Melting Point: 107.00 - 110.00 deg C

Decomposition Temperature: Not available.

Solubility: insoluble

Specific Gravity/Density: 1.252 g/cm³

Molecular Formula: C₁₆H₁₀

Molecular Weight: 202.25

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 206-44-0: LL4025000

LD50/LC50:

CAS# 206-44-0:

Oral, rat: LD50 = 2 gm/kg;

Skin, rabbit: LD50 = 3180 mg/kg;

Carcinogenicity:

CAS# 206-44-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: IARC Group 3: Limited or insufficient evidence for carcinogenicity in both animals and humans. Experimental tumorigenic data has been reported.

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: Mutation in microorganisms: *Salmonella typhimurium* = 5ug/plate. Mutation in mammalian somatic cells: Human Lymphocyte = 2 umol/L.

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Bluegill/Sunfish: 3980 µm/L; 96 H; (not specified) No data available.

Environmental: Remains in the upper few cm of soil, but can be transported to groundwater.

Biodegrades from soil in a few years. Will not volatilize from soil or water. Rapidly absorbed to sediment and particulates and will readily bioconcentrate. Unadsorbed substance in water will degrade by photolysis in a days to weeks. Stable in sediment for decades or more. In the atmosphere, photodegrades with half life of 4 - 5 days, but may transport long distances without settling or raining out.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series:

CAS# 206-44-0: waste number U120.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 206-44-0 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 206-44-0: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 206-44-0: immediate.

Section 313

This material contains Fluoranthene (CAS# 206-44-0, 98%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 206-44-0 is listed as a Priority Pollutant under the Clean Water Act. CAS# 206-44-0 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 206-44-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 21/22 Harmful in contact with skin and if swallowed.

Safety Phrases:

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 206-44-0: No information available.

Canada - DSL/NDSL

CAS# 206-44-0 is listed on Canada's NDSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 206-44-0 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997

Revision #6 Date: 11/20/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

SUPELCO INC -- 48499, INDENO (1,2,3-CD) PYRENE 10MG -- 6810-00N032522

===== Product Identification =====

Product ID:48499, INDENO (1,2,3-CD) PYRENE 10MG

MSDS Date:06/06/1985

FSC:6810

NIIN:00N032522

MSDS Number: BNSSK

=== Responsible Party ===

Company Name:SUPELCO INC

Address:SUPELCO PARK

City:BELLEFONTE

State:PA

ZIP:16823-0048

Country:US

Info Phone Num:814-359-3441

Emergency Phone Num:814-359-3441

CAGE:54968

=== Contractor Identification ===

Company Name:SIGMA-ALDRICH INC.

Address:3050 SPRUCE STREET

Box:14508

City:ST. LOUIS

State:MO

ZIP:63103

Country:US

Phone:314-771-5765/414-273-3850X5996

CAGE:54968

===== Composition/Information on Ingredients =====

Ingred Name:INDENO 1,2,3-CD PYRENE

CAS:193-39-5

RTECS #:NK9300000

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:REPORTED ANIMAL CARCINOGEN.

Explanation of Carcinogenicity:INDENO(1,2,3-CD) PYRENE: GROUP 2B(IARC),
ANTICIPATED TO BE CARCINOGEN (NTP).

Effects of Overexposure:NONE SPECIFIED BY MANUFACTURER.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:EYES: FLUSH WITH WATER FOR AT LEAST 15 MIN. SKIN: FLUSH WITH
LARGE VOLUMES OF WATER. REMOVE CONTAMINATED CLOTHING. INHAL: MOVE
TO FRESH AIR. IF BREATHING STOPS, GIVE ARTF RESP. INGEST: IMMED
CONTACT A PHYSICIAN.

===== Fire Fighting Measures =====

Flash Point:400F,204C

Extinguishing Media:CO2, DRY CHEMICAL.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT .

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP MATERIAL. AVOID GENERATING DUST.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN SEALED CONTR IN COOL, DRY
LOCATION. KEEP AWAY FROM OXIDIZERS. STORE IN DRY, WELL VENTILATED
AREA.

Other Precautions:REPORTED CANCER HAZARD. AVOID EYE OR SKIN CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT .

Ventilation:USE ONLY IN EXHAUST HOOD.

Protective Gloves:NEOPRENE GLOVES.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.

===== Physical/Chemical Properties =====

HCC:T6

Melt/Freeze Pt:M.P/F.P Text:324F,162C

Vapor Pres:0.10

Appearance and Odor:YELLOW CRYSTALS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
OXIDIZING AGENTS. METALLIC SODIUM & POTASSIUM.

===== Disposal Considerations =====

Waste Disposal Methods:COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR
LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
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assume responsibility for the suitability of this information to their
particular situation.

Material Safety Data Sheet

Phenanthrene, 98+%

ACC# 96981

Section 1 - Chemical Product and Company Identification

MSDS Name: Phenanthrene, 98+%

Catalog Numbers: AC130090000, AC130090050, AC130090500, AC130091000, AC130095000

Synonyms:

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
85-01-8	Phenanthrene	>98.0	201-581-5

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: brown.

Warning! Harmful if swallowed. May cause allergic skin reaction. May cause eye, skin, and respiratory tract irritation. Cancer suspect agent.

Target Organs: Skin.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin. May cause an allergic reaction in certain individuals.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation: May be harmful if inhaled. Inhalation of dust may cause respiratory tract irritation.

Chronic: Limited evidence of a carcinogenic effect.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray or dry chemical.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Phenanthrene	0.2 mg/m ³ TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m ³ TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches). 80 mg/m ³ IDLH (listed under Coal tar pitches).	0.2 mg/m ³ TWA (benzene soluble fraction) (listed under Coal tar pitches).

OSHA Vacated PELs: Phenanthrene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: brown

Odor: None reported

pH: Not available.

Vapor Pressure: 1 mm Hg @116c

Vapor Density: Not available.

Evaporation Rate:Not available.

Viscosity: Not available.

Boiling Point: 340 deg C

Freezing/Melting Point:101 deg C

Decomposition Temperature:Not available.

Solubility: insoluble

Specific Gravity/Density:1.0630g/cm³

Molecular Formula:C₁₄H₁₀

Molecular Weight:178.23

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 85-01-8: SF7175000

LD50/LC50:

CAS# 85-01-8:

Oral, mouse: LD50 = 700 mg/kg;

Oral, rat: LD50 = 1.8 gm/kg;

Carcinogenicity:

CAS# 85-01-8:

- **ACGIH:** A1 - Confirmed Human Carcinogen (listed as 'Coal tar pitches').
- **California:** Not listed.
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

Epidemiology: No information found
Teratogenicity: No information found
Reproductive Effects: No information found
Mutagenicity: No information found
Neurotoxicity: No information found
Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 85-01-8 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 85-01-8: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 85-01-8: immediate.

Section 313

This material contains Phenanthrene (CAS# 85-01-8, >98.0%), which is subject to the reporting

requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 85-01-8 is listed as a Priority Pollutant under the Clean Water Act.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 85-01-8 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Coal tar pitches), Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN N

Risk Phrases:

R 22 Harmful if swallowed.

R 40 Limited evidence of a carcinogenic effect.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 29 Do not empty into drains.

S 36/37 Wear suitable protective clothing and gloves.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 85-01-8: No information available.

Canada - DSL/NDSL

CAS# 85-01-8 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 85-01-8 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 7/14/1998

Revision #5 Date: 5/05/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Pyrene, ca 96%

ACC# 96675

Section 1 - Chemical Product and Company Identification

MSDS Name: Pyrene, ca 96%

Catalog Numbers: AC157650000, AC157651000, AC157655000

Synonyms: Benzo[def]phenanthrene

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
129-00-0	Pyrene	ca. 96.0	204-927-3

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow powder.

Danger! May be fatal if inhaled. Causes respiratory tract irritation. Cancer hazard. Causes skin irritation. May be harmful if swallowed. May cause eye irritation. May cause cancer based on animal studies. The toxicological properties of this material have not been fully investigated.

Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: Causes skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. Dermal applications may cause hyperemia (an excess of blood in a part), weight loss, and hematopoietic changes.

Ingestion: May cause digestive tract disturbances. The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

Inhalation: May be fatal if inhaled. Causes respiratory tract irritation. Inhalation of dust may cause respiratory tract irritation.

Chronic: May cause cancer according to animal studies. Chronic effects may include leukocytosis and lengthened chronaxy of the leg muscle flexors.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Flash Point: 210 deg C (410.00 deg F)

Autoignition Temperature: Not available.

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Pyrene	0.2 mg/m3 TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m3 TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m3 IDLH (listed under Coal tar pitches).	0.2 mg/m3 TWA (benzene soluble fraction) (listed under Coal tar pitches).

OSHA Vacated PELs: Pyrene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Appearance: yellow

Odor: None reported.

pH: Not available.

Vapor Pressure: < 1 mm Hg @20C

Vapor Density: Not available.

Evaporation Rate:Not available.

Viscosity: Not available.

Boiling Point: 404 deg C @ 760.00mmHg

Freezing/Melting Point:156 deg C

Decomposition Temperature:Not available.

Solubility: 1.271

Specific Gravity/Density:Not available.

Molecular Formula:C16H10

Molecular Weight:202.25

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon monoxide, carbon dioxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 129-00-0: UR2450000; UR2450100

LD50/LC50:

CAS# 129-00-0:

Draize test, rabbit, skin: 500 mg/24H Mild;

Inhalation, rat: LC50 = 170 mg/m3;

Inhalation, rat: LC50 = 170 mg/m3;

Oral, mouse: LD50 = 800 mg/kg;

Oral, rat: LD50 = 2700 mg/kg;

Carcinogenicity:

CAS# 129-00-0:

- **ACGIH:** A1 - Confirmed Human Carcinogen (listed as 'Coal tar pitches').
- **California:** Not listed.
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

Epidemiology: No information found

Teratogenicity: TDLo(skin, mouse) =10 gm/kg/3W-I; Skin and Appendages - tumors

Reproductive Effects: No information found

Mutagenicity: Mutation in microorganisms(Salmonella typhimurium)= 5 ug/plate
 Unscheduled DNA synthesis(Human Fibroblast)= 100 mg/LSister chromatid exchange(Human Lymphocyte) = 100 umol/L

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Water flea Daphnia: EC50 = 1.8 mg/L; 48 Hr.; Unspecified No data available.

Environmental: If pyrene is released to soil, it will be expected to adsorb very strongly to the soil and will not be expected to leach to the groundwater. If released to water, pyrene will be expected to adsorb very strongly to sediments and particulate matter. It will not hydrolyze but may undergo slight to moderate bioconcentration.

Physical: No information available.

Other: Reported BCF: rainbow trout, 72); goldfish, 457; fathead minnow, 600-970. Based on these values, minimal to moderate bioconcentration of pyrene in aquatic organisms would be expected.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 129-00-0 is listed on the TSCA inventory.

Health & Safety Reporting List

CAS# 129-00-0: Effective 6/1/87, Sunset 6/1/97

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 129-00-0: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

CAS# 129-00-0: 1000 lb lower threshold TPQ; 10000 lb upper threshold T PQ

SARA Codes

CAS # 129-00-0: immediate, delayed.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 129-00-0 is listed as a Priority Pollutant under the Clean Water Act.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 129-00-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Coal tar pitches), Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 45 May cause cancer.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 129-00-0: No information available.

Canada - DSL/NDSL

CAS# 129-00-0 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D1A, D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 129-00-0 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

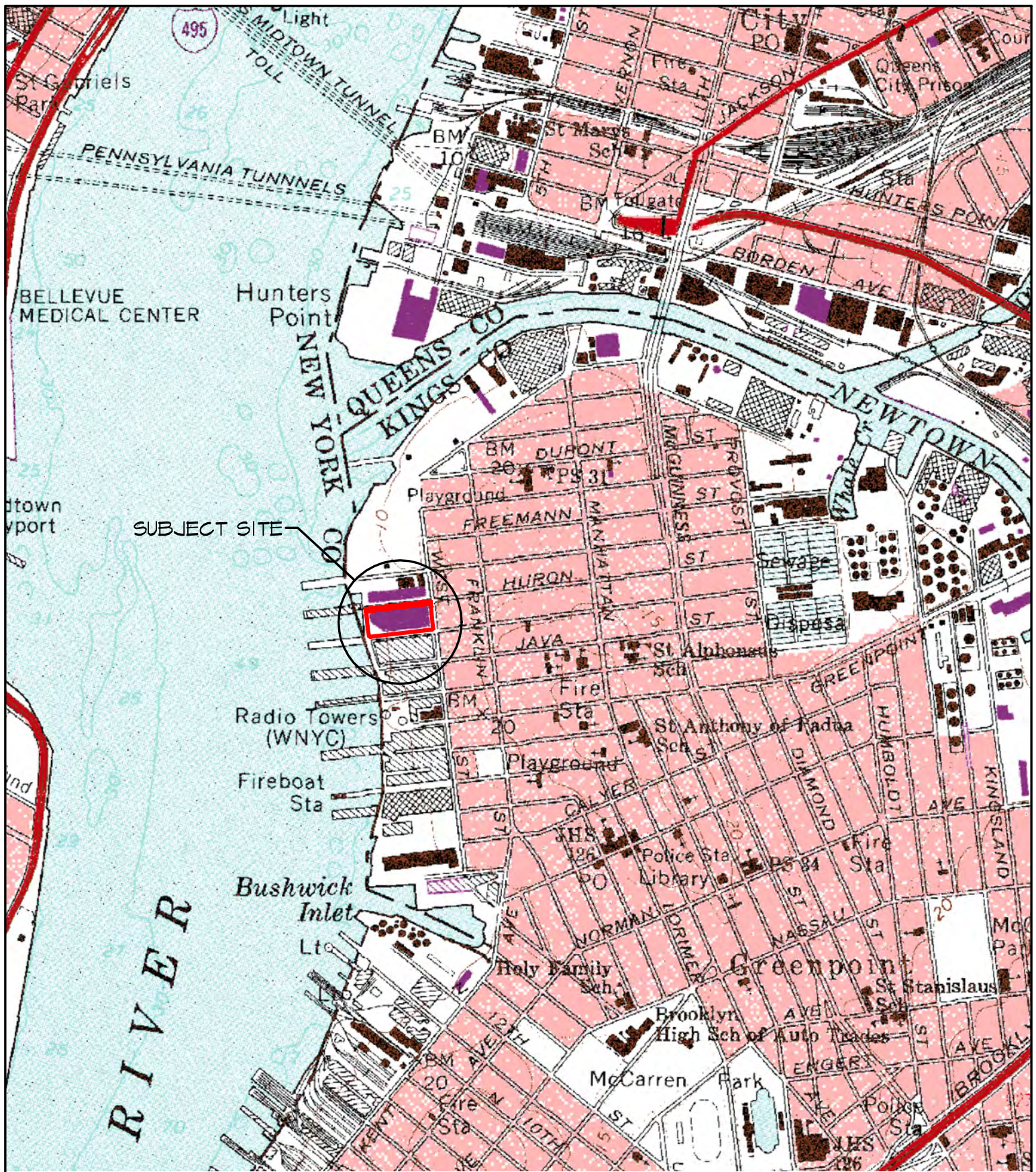
MSDS Creation Date: 6/21/1999

Revision #4 Date: 11/20/2008

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Appendix M

Soil Results Figures



Galli Engineering, P.C.

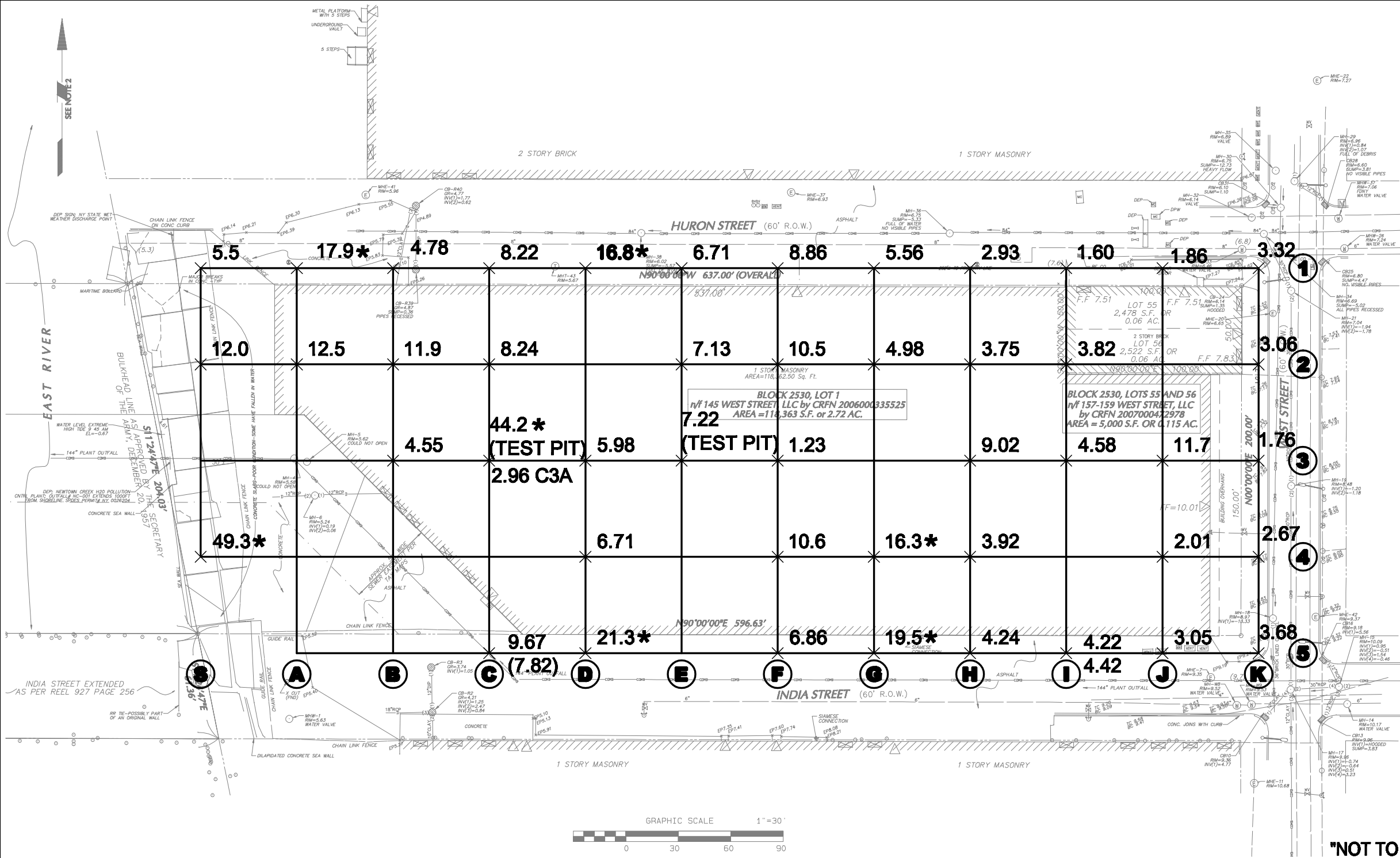


734 Walt Whitman Road,
Suite 402A
Melville, New York 11747

JOB NO.	0815-01-003
DATE	8/18/11
SCALE	CHKD. BY
N.T.S.	KLB
DRWN. BY	DSGN. BY
JJR	KLB

145 WEST STREET LLC

FIGURE 1 – SITE LOCATION MAP



LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
- GAS VALVE
- UNKNOWN VALVE
- CATCH BASIN
- METAL COVER
- ELECTRIC BOX
- DOOR
- DOUBLE DOOR
- GARAGE DOOR
- PARKING METER
- MONITORING WELL
- SPOT ELEVATION
- CLEAN OUT
- TREE
- BENCH MARK
- SIGN
- POLE
- BOLLARD
- STORM DRAIN
- SANITARY
- GAS
- WATER
- ELECTRIC
- FENCE (TYPE AS NOTED)
- OVERHEAD WIRE
- GUIDE RAIL (TYPE AS NOTED)
- TELEPHONE
- TREE LINE
- REFERENCED UTILITY LINE (TYPE AS NOTED)
- LEGAL GRADE (TYPICAL)
- BORING LOCATION (LANGAN 12/08)
- BORING & MONITORING WELL LOCATION (LANGAN 12/08)
- NEW MONITORING WELL AND BORING LOCATION
- NEW TEST BORING LOCATION
- NEW TEST PIT LOCATION
- ENDPOINT SAMPLE LOCATION

"NOT TO BE USED FOR CONSTRUCTION"

- NOTES**
1. BASE SURVEY PERFORMED BY LANGAN, APRIL 2008.
 2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO AN ARBITRARY SYSTEM.
 3. ELEVATIONS SHOWN ARE REFERENCED TO BROOKLYN BOROUGH DATUM.
 4. NO BORINGS OR SAMPLING TO TAKE PLACE IN DEP EASEMENT OR IN INDIA STREET WITHOUT CONSENT OF DEP.
 5. DEP TO BE GIVEN MINIMUM ONE WEEK NOTICE PRIOR TO FIELD WORK.
 6. OUTFALL WILL BE MONITORED FOR VIBRATION DURING FIELD WORK.
 7. SOUTHERN LINE OF SAMPLES MAY BE MOVED INSIDE BUILDING IF DEP HAS CONCERNS ABOUT THEIR 12' OUTFALL IN INDIA STREET.

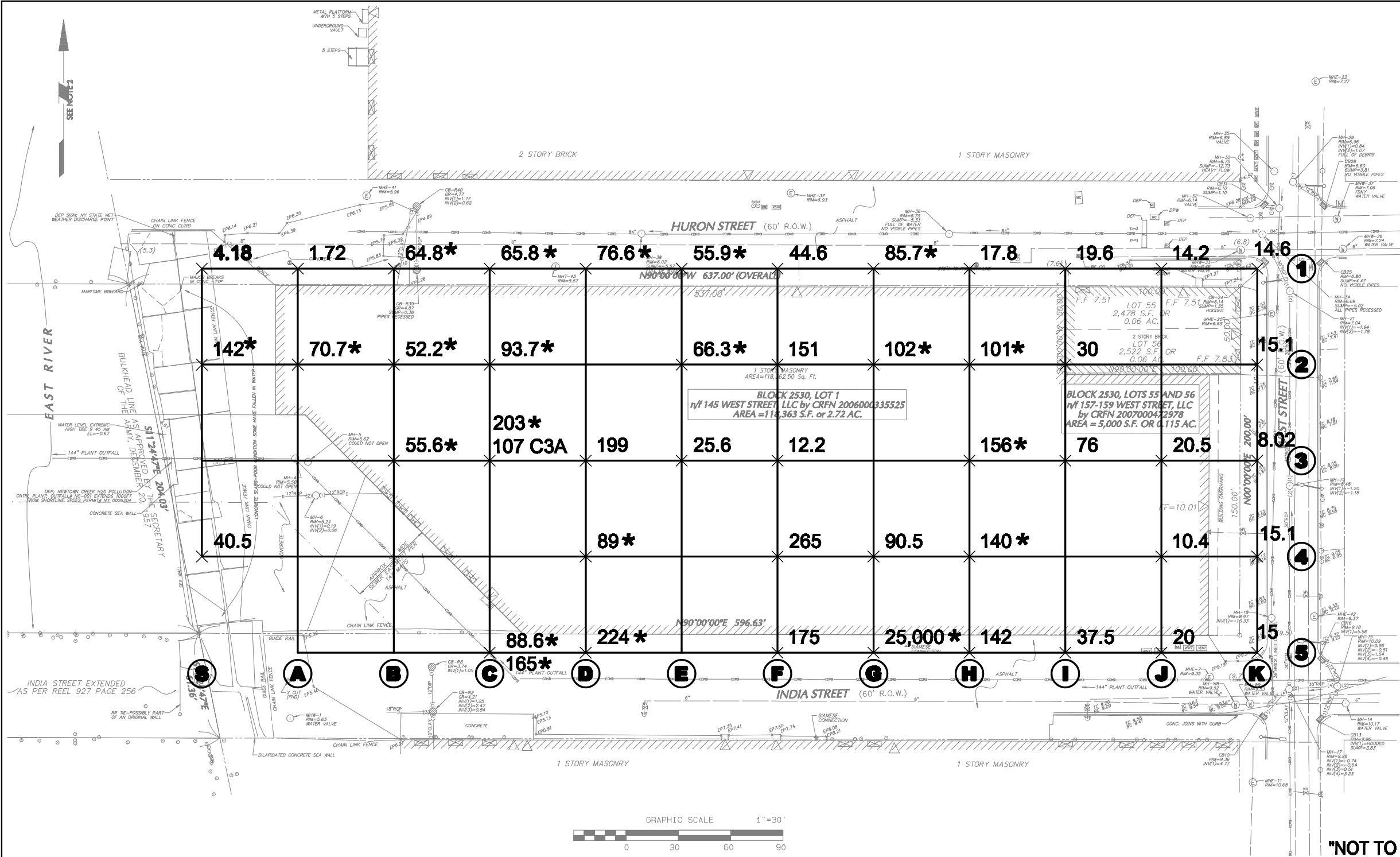
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 2 ARSENIC GRID RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



KEY MAP

LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
- GAS VALVE
- UNKNOWN VALVE
- CATCH BASIN
- METAL COVER
- ELECTRIC BOX
- DOOR
- DOUBLE DOOR
- GARAGE DOOR
- PARKING METER
- MONITORING WELL
- SPOT ELEVATION
- CLEAN OUT
- TREE
- BENCH MARK
- SIGN
- POLE
- BOLLARD
- STORM DRAIN
- SANITARY
- GAS
- WATER
- ELECTRIC
- FENCE (TYPE AS NOTED)
- OVERHEAD WIRE
- GUIDE RAIL (TYPE AS NOTED)
- TELEPHONE
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- NEW MONITORING WELL AND BORING LOCATION
- NEW TEST BORING LOCATION
- NEW TEST PIT LOCATION
- ENDPOINT SAMPLE LOCATION

"NOT TO BE USED FOR CONSTRUCTION"

NOTES

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2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO AN ARBITRARY SYSTEM.
3. ELEVATIONS SHOWN ARE REFERENCED TO BROOKLYN BOROUGH DATUM.
4. NO BORINGS OR SAMPLING TO TAKE PLACE IN DEP EASEMENT OR IN INDIA STREET WITHOUT CONSENT OF DEP.
5. DEP TO BE GIVEN MINIMUM ONE WEEK NOTICE PRIOR TO FIELD WORK.
6. OUTFALL WILL BE MONITORED FOR VIBRATION DURING FIELD WORK.
7. SOUTHERN LINE OF SAMPLES MAY BE MOVED INSIDE BUILDING IF DEP HAS CONCERNS ABOUT THEIR 12' OUTFALL IN INDIA STREET.

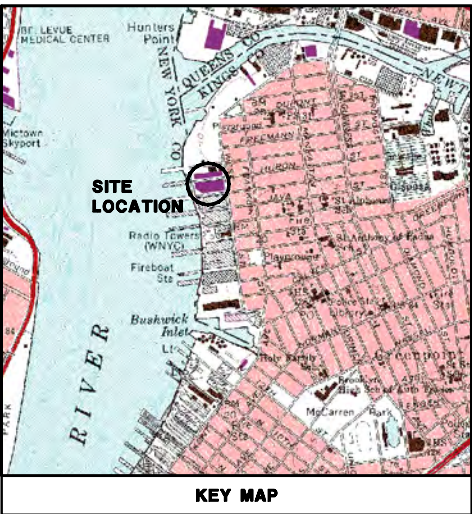
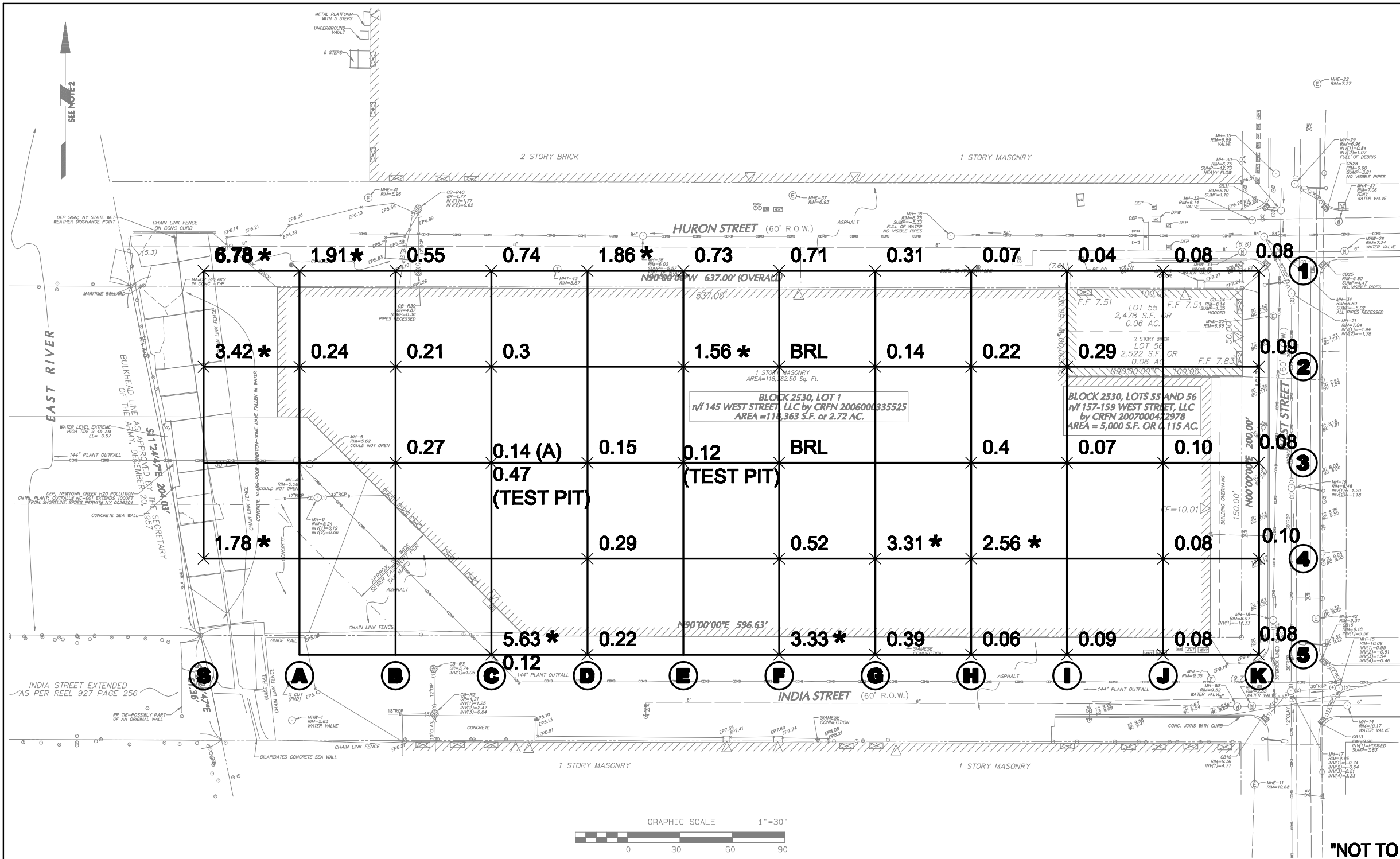
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* EXCEEDS PART 375 RESTRICTED RESIDENTIAL SCO

REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 3 COPPER GRID RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



- LEGEND**
- HYDRANT
 - STREET LIGHT
 - SIGNAL POLE
 - MANHOLE
 - WATER VALVE
 - GAS VALVE
 - UNKNOWN VALVE
 - CATCH BASIN
 - METAL COVER
 - ELECTRIC BOX
 - DOOR
 - DOUBLE DOOR
 - GARAGE DOOR
 - PARKING METER
 - MONITORING WELL
 - SPOT ELEVATION
 - CLEAN OUT
 - TREE
 - BENCH MARK
 - SIGN
 - POLE
 - BOLLARD
 - STORM DRAIN
 - SANITARY
 - GAS
 - WATER
 - ELECTRIC
 - FENCE (TYPE AS NOTED)
 - OVERHEAD WIRE
 - GUIDE RAIL (TYPE AS NOTED)
 - TELEPHONE
 - TREE LINE
 - REFERENCED UTILITY LINE (TYPE AS NOTED)
 - LEGAL GRADE (TYPICAL)
 - BORING LOCATION (LANGAN 12/08)
 - BORING & MONITORING WELL LOCATION (LANGAN 12/08)
 - NEW MONITORING WELL AND BORING LOCATION
 - NEW TEST BORING LOCATION
 - NEW TEST PIT LOCATION
 - ENDPOINT SAMPLE LOCATION

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3. ELEVATIONS SHOWN ARE REFERENCED TO BROOKLYN BOROUGH DATUM.
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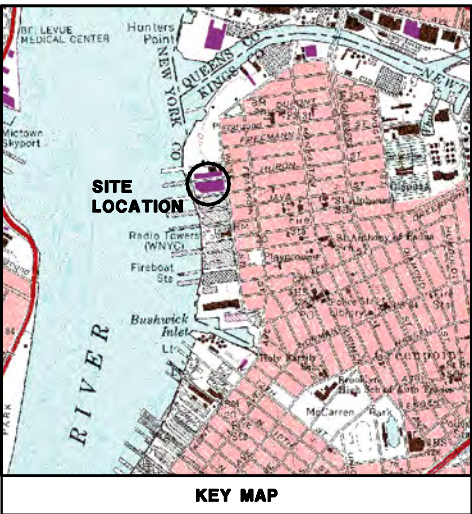
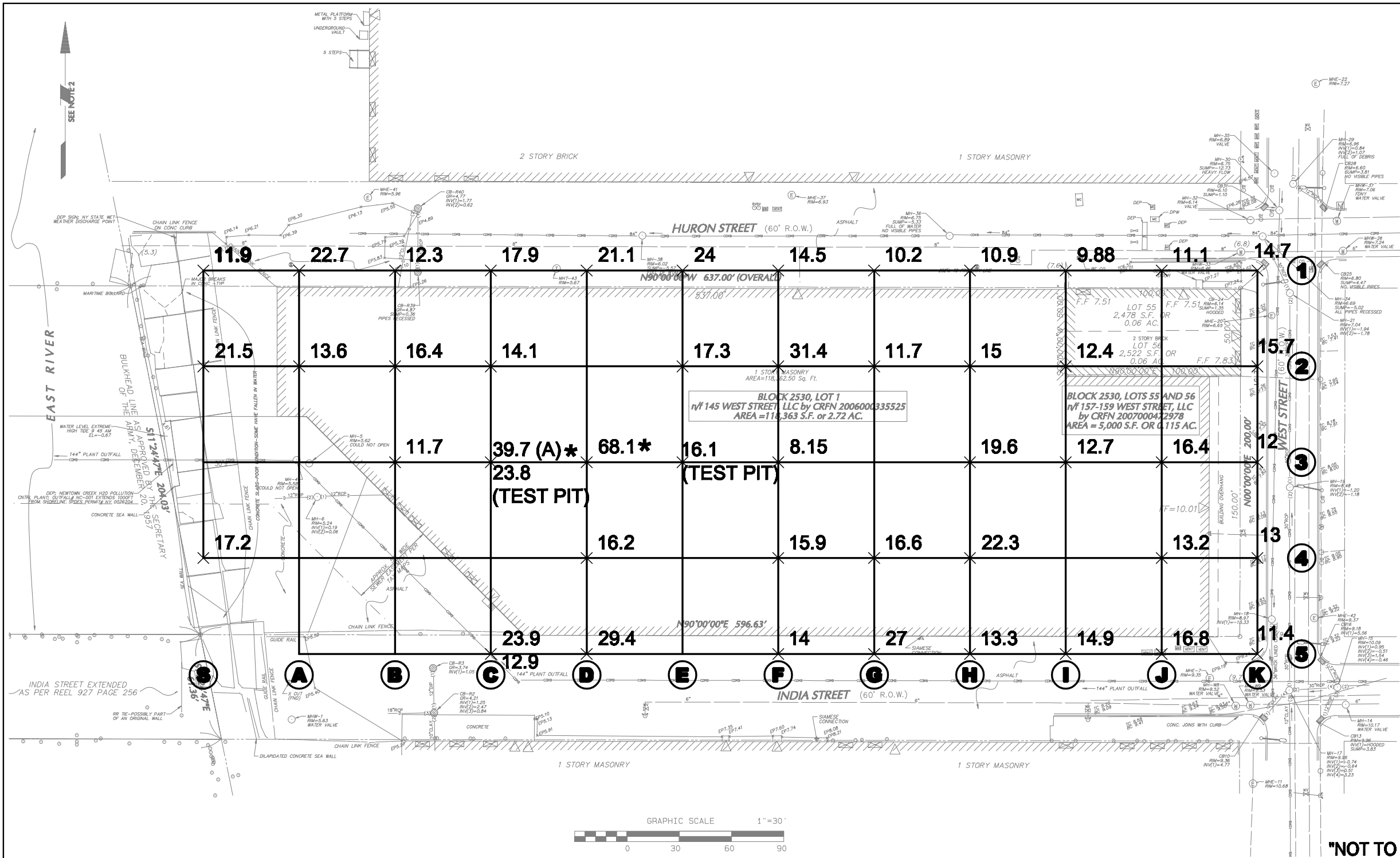
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 5 MERCURY GRID RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



- LEGEND**
- HYDRANT
 - STREET LIGHT
 - SIGNAL POLE
 - MANHOLE
 - WATER VALVE
 - GAS VALVE
 - UNKNOWN VALVE
 - CATCH BASIN
 - METAL COVER
 - ELECTRIC BOX
 - DOOR
 - DOUBLE DOOR
 - GARAGE DOOR
 - PARKING METER
 - MONITORING WELL
 - SPOT ELEVATION
 - CLEAN OUT
 - TREE
 - BENCH MARK
 - SIGN
 - POLE
 - BOLLARD
 - STORM DRAIN
 - SANITARY
 - GAS
 - WATER
 - ELECTRIC
 - FENCE (TYPE AS NOTED)
 - OVERHEAD WIRE
 - GUIDE RAIL (TYPE AS NOTED)
 - TELEPHONE
 - TREE LINE
 - REFERENCED UTILITY LINE (TYPE AS NOTED)
 - LEGAL GRADE (TYPICAL)
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 - ENDPOINT SAMPLE LOCATION

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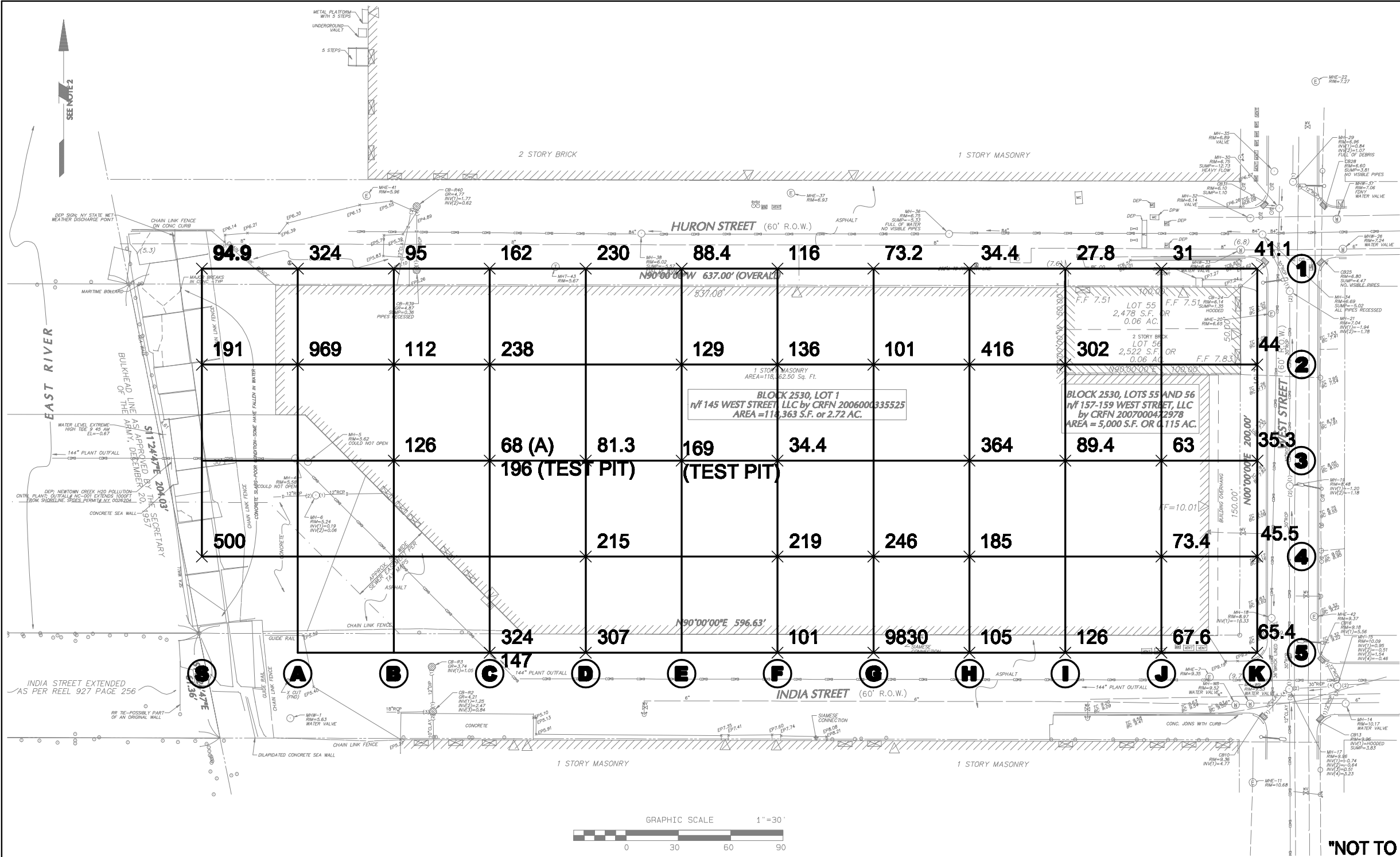
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 6 NICKEL GRID RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



KEY MAP

LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
- GAS VALVE
- UNKNOWN VALVE
- CATCH BASIN
- METAL COVER
- ELECTRIC BOX
- DOOR
- DOUBLE DOOR
- GARAGE DOOR
- PARKING METER
- MONITORING WELL
- SPOT ELEVATION
- CLEAN OUT
- TREE
- BENCH MARK
- SIGN
- POLE
- BOLLARD
- STORM DRAIN
- SANITARY
- GAS
- WATER
- ELECTRIC
- FENCE (TYPE AS NOTED)
- OVERHEAD WIRE
- GUIDE RAIL (TYPE AS NOTED)
- TELEPHONE
- TREE LINE
- REFERENCED UTILITY LINE (TYPE AS NOTED)
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- NEW TEST PIT LOCATION
- ENDPOINT SAMPLE LOCATION

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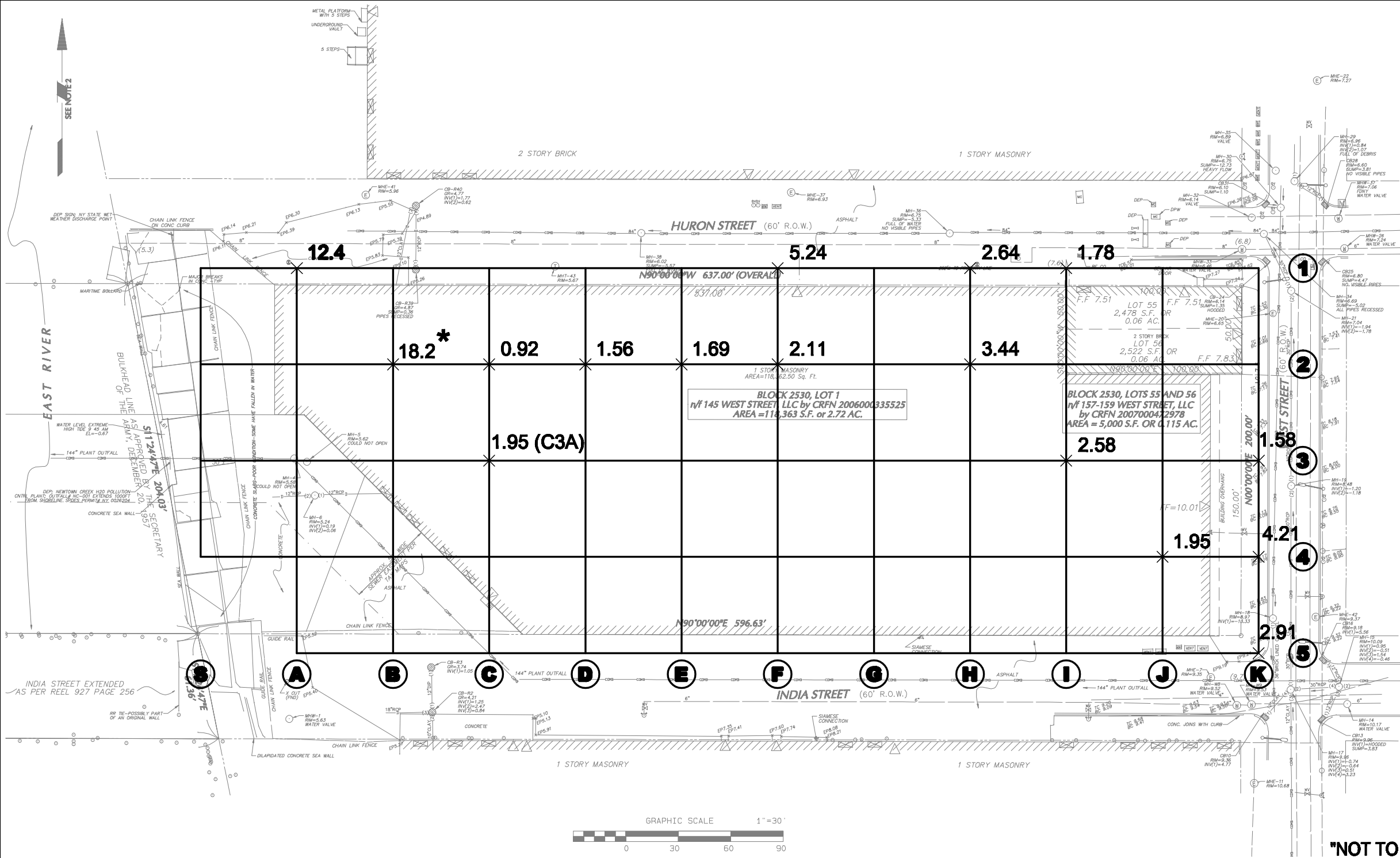
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 7 ZINC GRID RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



KEY MAP

LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
- GAS VALVE
- UNKNOWN VALVE
- CATCH BASIN
- METAL COVER
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- DOUBLE DOOR
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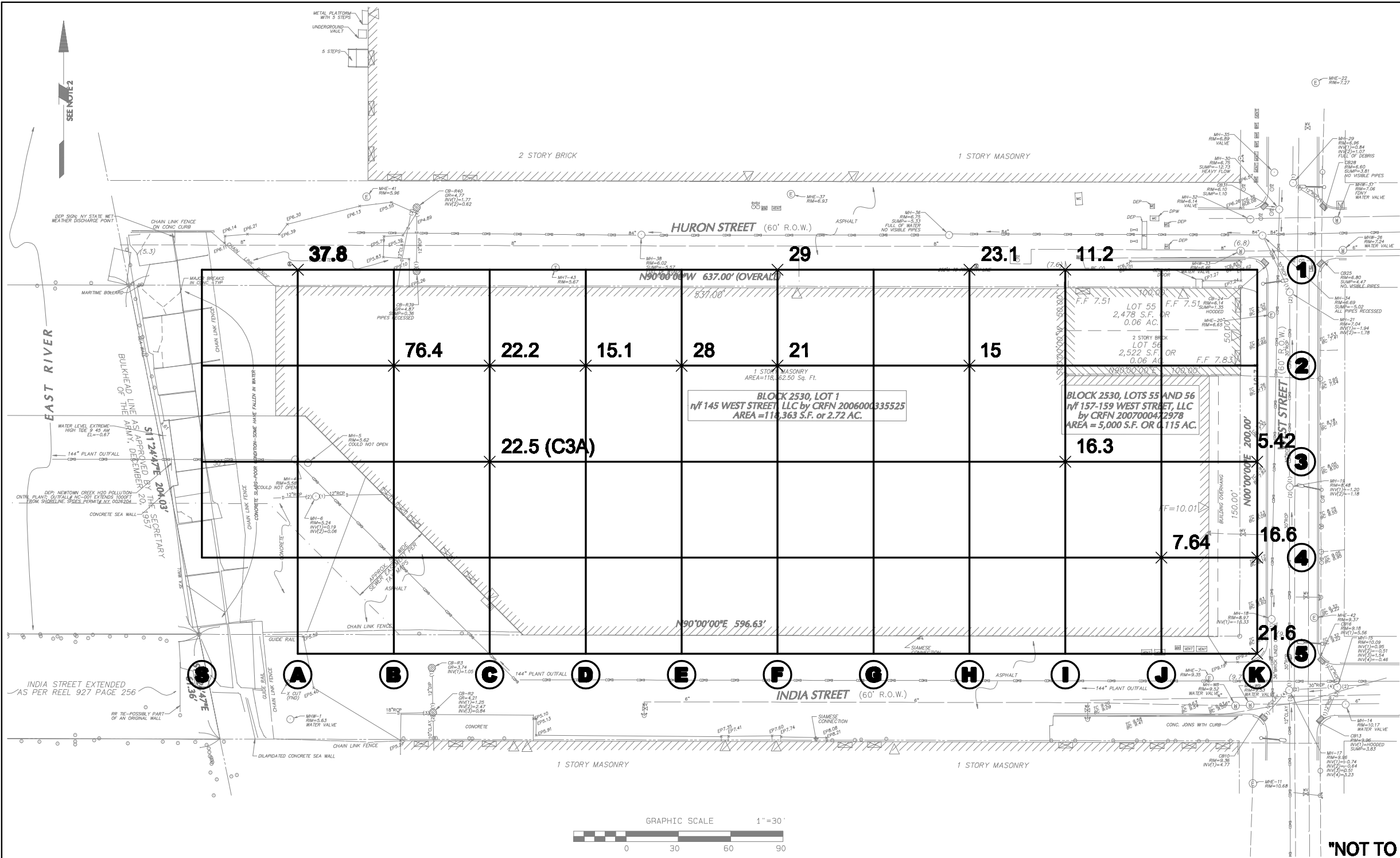
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 8 ARSENIC END POINT RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



- LEGEND**
- HYDRANT
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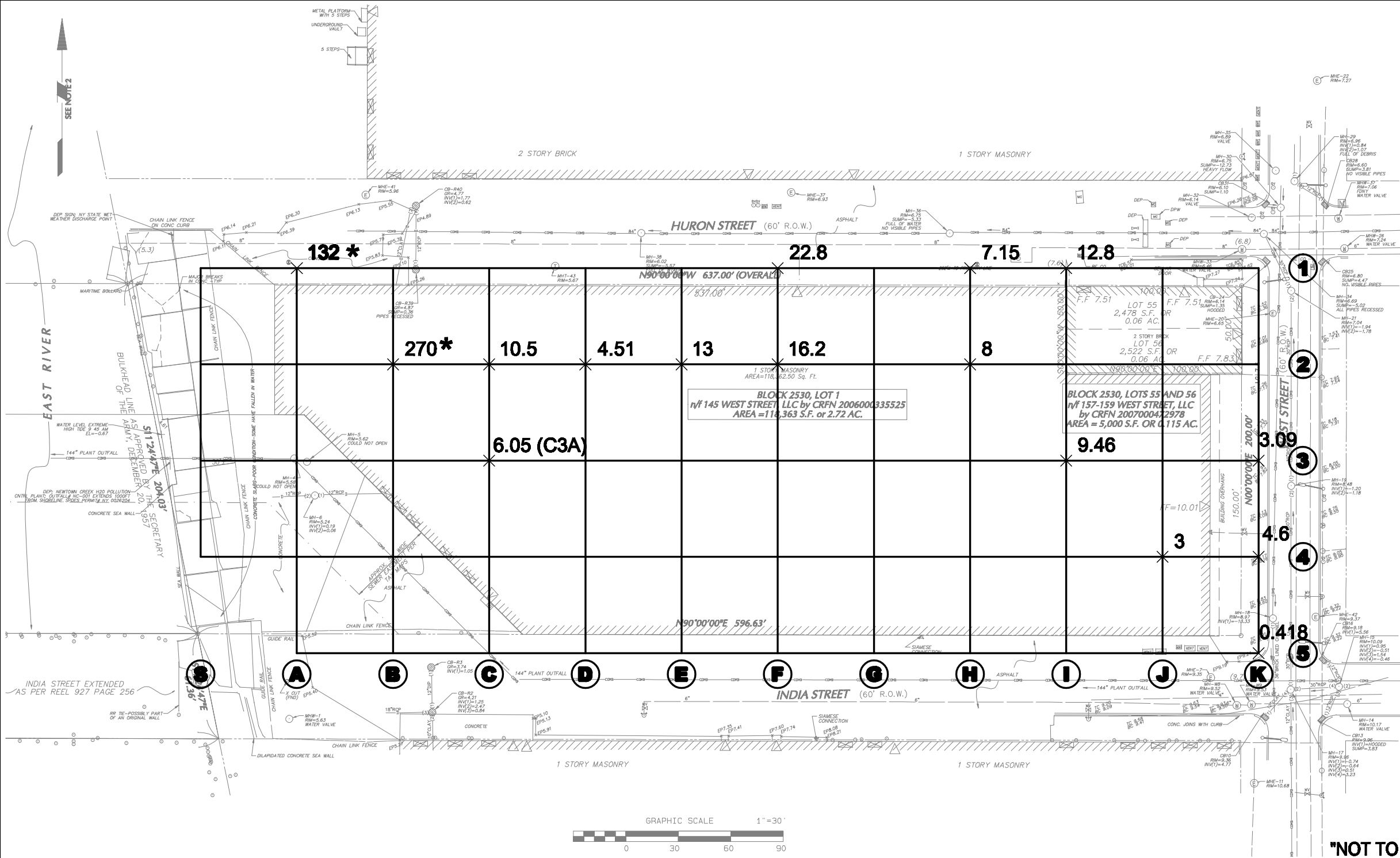
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 9 COPPER END POINT RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



KEY MAP

LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
- GAS VALVE
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- CATCH BASIN
- METAL COVER
- ELECTRIC BOX
- DOOR
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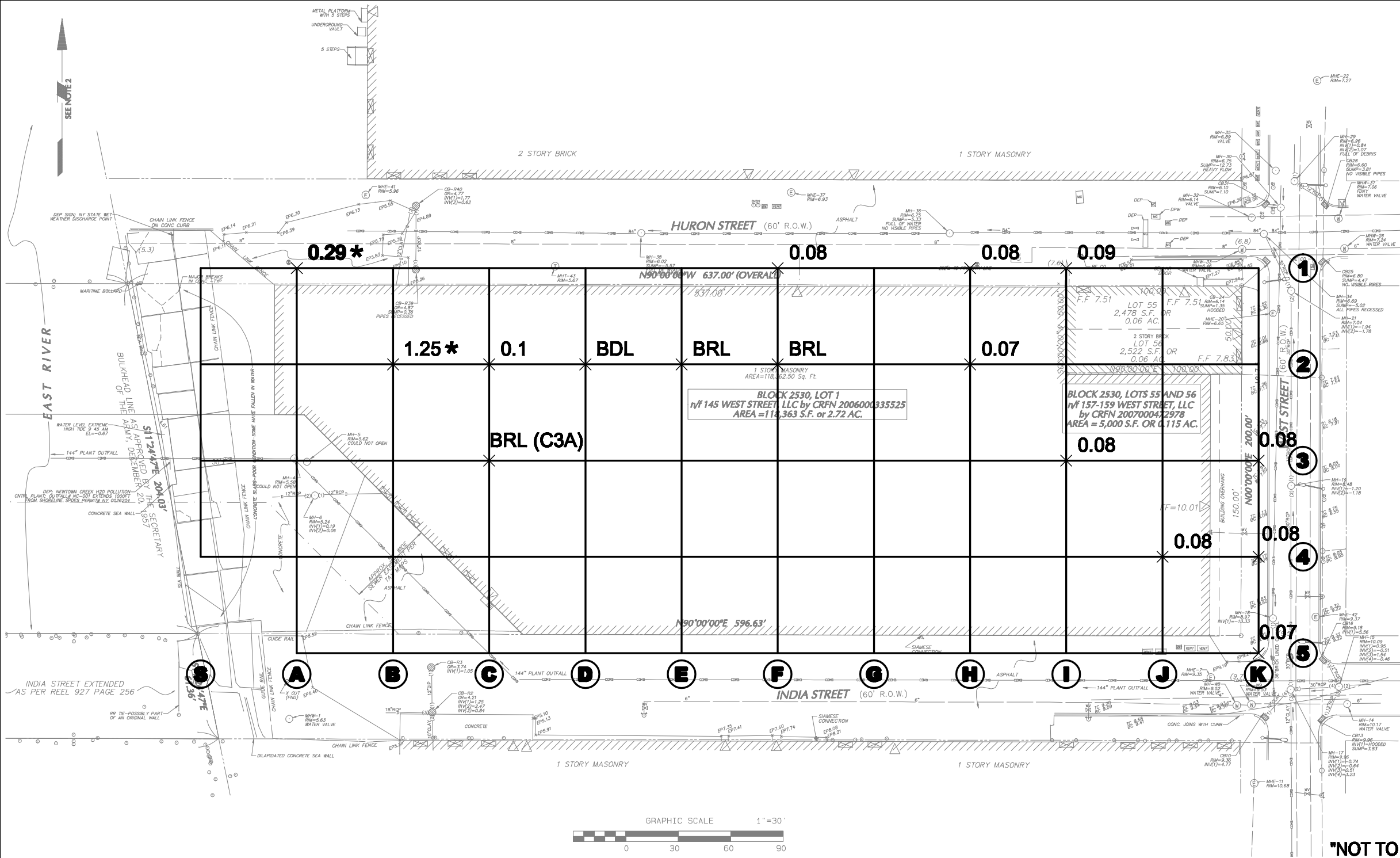
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 10 LEAD END POINT RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



KEY MAP

LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
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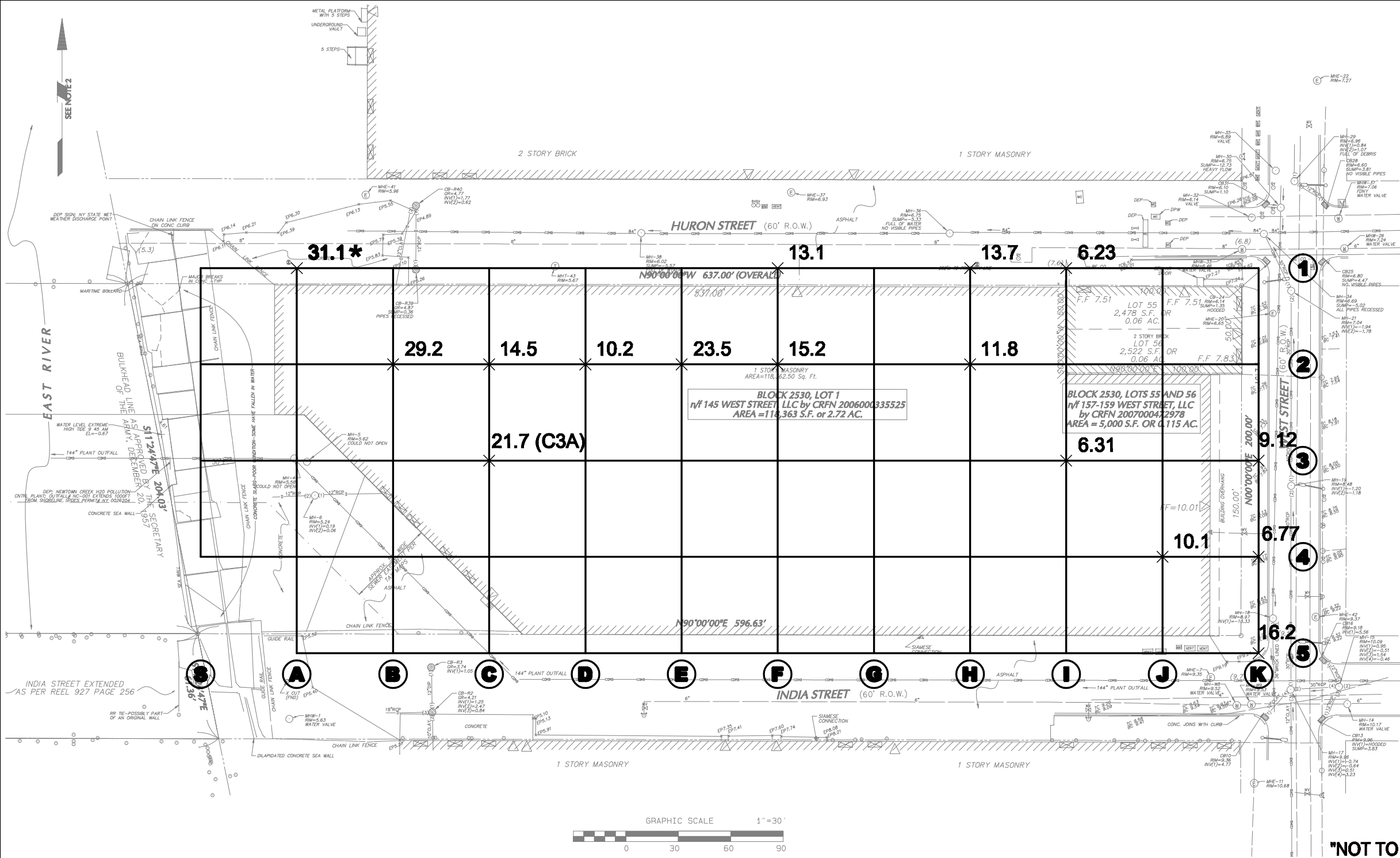
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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 11 MERCURY END POINT RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
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KEY MAP

LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
- GAS VALVE
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- CATCH BASIN
- METAL COVER
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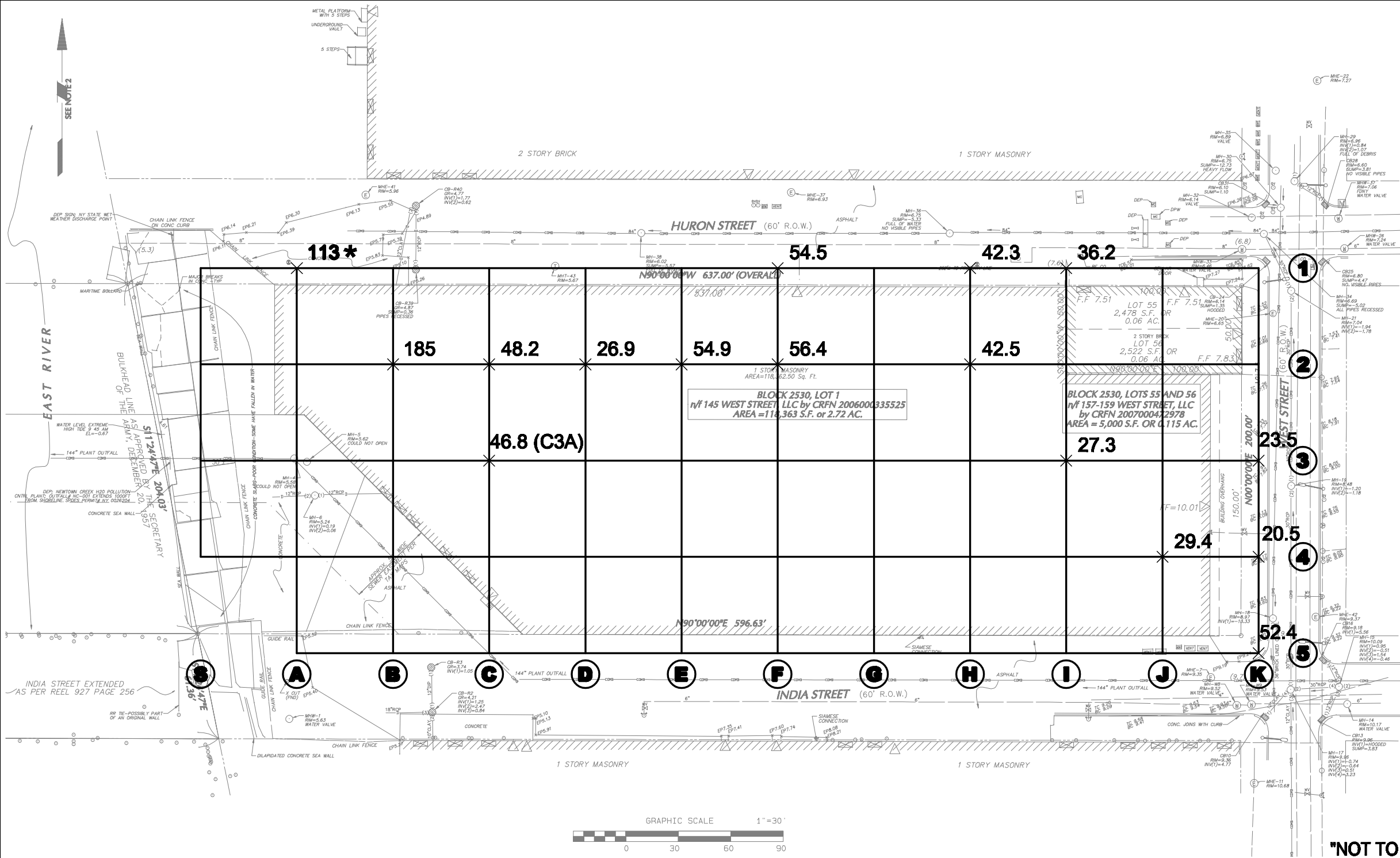
* EXCEEDS PART 375 UNRESTRICTED SCO

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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 12 NICKEL END POINT RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	



KEY MAP

LEGEND

- HYDRANT
- STREET LIGHT
- SIGNAL POLE
- MANHOLE
- WATER VALVE
- GAS VALVE
- UNKNOWN VALVE
- CATCH BASIN
- METAL COVER
- ELECTRIC BOX
- DOOR
- DOUBLE DOOR
- GARAGE DOOR
- PARKING METER
- MONITORING WELL
- SPOT ELEVATION
- CLEAN OUT
- TREE
- BENCH MARK
- SIGN
- POLE
- BOLLARD
- STORM DRAIN
- SANITARY
- GAS
- WATER
- ELECTRIC
- FENCE (TYPE AS NOTED)
- OVERHEAD WIRE
- GUIDE RAIL (TYPE AS NOTED)
- TELEPHONE
- TREE LINE
- REFERENCED UTILITY LINE (TYPE AS NOTED)
- LEGAL GRADE (TYPICAL)
- BORING LOCATION (LANGAN 12/08)
- BORING & MONITORING WELL LOCATION (LANGAN 12/08)
- NEW MONITORING WELL AND BORING LOCATION
- NEW TEST BORING LOCATION
- NEW TEST PIT LOCATION
- ENDPOINT SAMPLE LOCATION

"NOT TO BE USED FOR CONSTRUCTION"

NOTES

1. BASE SURVEY PERFORMED BY LANGAN, APRIL 2008.
2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO AN ARBITRARY SYSTEM.
3. ELEVATIONS SHOWN ARE REFERENCED TO BROOKLYN BOROUGH DATUM.
4. NO BORINGS OR SAMPLING TO TAKE PLACE IN DEP EASEMENT OR IN INDIA STREET WITHOUT CONSENT OF DEP.
5. DEP TO BE GIVEN MINIMUM ONE WEEK NOTICE PRIOR TO FIELD WORK.
6. OUTFALL WILL BE MONITORED FOR VIBRATION DURING FIELD WORK.
7. SOUTHERN LINE OF SAMPLES MAY BE MOVED INSIDE BUILDING IF DEP HAS CONCERNS ABOUT THEIR 12" OUTFALL IN INDIA STREET.

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REV.	DATE	DESCRIPTION	BY
JOB NO.	0815-01-003	145 WEST STREET, LLC BROOKLYN, NEW YORK	
DRAWN	JJR		
CHECKED	FG	FIGURE 13 ZINC END POINT RESULTS	
APPROVED	RDG		
SEAL		 Galli engineering, p.c. 734 Walt Whitman Road, Suite 402A Melville, New York 11747	
DATE	12/12/12		
SCALE	N.T.S.	DRAWING NO.	