MILONE & MACBROOM

August 25, 2020

Ms. Debbie Lee
131 Pearl Street Owner, LLC
201 West 17th Street, Apartment 3D
New York, NY 10011

**RE: Geotechnical Engineering and Environmental Report**
**123-131 Pearl Street Development**
**Port Chester, New York**
**MMI #7163-01**

Dear Ms. Lee:

Milone & MacBroom, Inc. (MMI) is pleased to submit our geotechnical engineering and environmental report for the proposed Pearl Street Development located at 123-131 Pearl Street in Port Chester, New York. Refer to Figure 1 – Locus Plan in Appendix 1 for the general location of the project.

This report includes subsurface information, geotechnical design and construction recommendations, and a limited environmental evaluation for the project. Our geotechnical recommendations are based in part on guidance from the 2020 New York State Building Code, which is based on the 2018 International Building Code (IBC). The limited environmental evaluation is based on the New York Department of Environment Conservation (NYDECs) Soil Cleanup Objectives.

## PURPOSE AND SCOPE

MMI performed subsurface explorations (e.g. borings) and a geotechnical engineering evaluation for the proposed development, which included characterizing the subsurface conditions at the site, performing geotechnical engineering analyses, and providing geotechnical design and construction recommendations for the project. In addition, limited environmental testing was performed with the intent of providing preliminary information and our initial thoughts regarding the subsurface environmental conditions.

## SITE DESCRIPTION AND PROPOSED CONSTRUCTION

The site is approximately 0.62 acres, comprised of three adjacent parcels that are bordered by Pearl Street to the north, New Broad Street to the south, and commercial properties to the east and west. The site slopes down from approximately El. 76 at Pearl Street to approximately El. 65 at New Broad Street, where there are several retaining walls that maintain a grade change of about seven feet between the site and street below. The site is currently occupied by six, existing buildings that will be demolished as part of the development.

The development will consist of a four to six to seven story residential building with the lowest finished floor level close to that of New Broad Street at about El. 58. The new building will essentially occupy the entire site with a footprint of approximately 27,500 square feet.

## REGIONAL GEOLOGY

According to the "Surficial Geologic Map of New York (1:250,000 scale)" by Donald H. Cadwell and dated 1989 and the "Bedrock Geological Map of the Mamaroneck Quadrangle, New York (1:24,000 scale)" by Pelligrini, T.L and dated 1977, the subsurface materials at the site are mapped as glacial till, over brown or gray, fine to coarse-grained schist (Hartland Formation).

## SUBSURFACE EXPLORATIONS

MMI observed five borings (MM-1 through MM-5) that were performed by General Borings, Inc. of Prospect, Connecticut on July 21 and 22, 2020. The borings were performed to explore the subsurface conditions within the proposed building footprint and their approximate locations are shown on Figure 2, Subsurface Exploration Location Plan, contained in Appendix 1. The borings were located by taping and/or pacing from existing site features and ground surface elevations were estimated from available topographic information.

The borings were advanced using hollow-stem augers to refusal at depths ranging between about 11 and 20 feet below current site grades. Representative soil samples were obtained by split-barrel sampling procedures in general accordance with American Society for Testing and Materials (ASTM) Specification D-1586. The split-barrel sampling procedure utilizes a standard 2-inch-outside-diameter (O.D.) split-barrel sampler that is driven into the bottom of the boring with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler the middle 12 inches of a normal 24-inch penetration is recorded as the Standard Penetration Resistance Value (N). The blows are indicated on the boring logs at their depth of occurrence and provide an indication of the consistency or relative density of the material.

Borings MM-1, MM-3, and MM-5 were further advanced an additional five to 10 feet into bedrock using an NQ sized, double-tube, core barrel in general accordance with ASTM Specification D-2113. The Rock Quality Designation (RQD) was determined for each rock core as an indication of bedrock quality. RQD is defined as the ratio of the sum of the lengths of the cored pieces greater than four inches versus the total cored length, expressed as a percentage.

Groundwater levels were measured using a weighted tape in the open drill holes or inferred from the soil samples during drilling. Logs of the borings are included in Appendix 2 and photos of the retrieved rock cores are provided in Appendix 3.

## SUBSURFACE SOIL AND BEDROCK CONDITIONS

The generalized subsurface soil and bedrock profile generally consists of asphalt over fill over glacial till over weathered bedrock over more competent bedrock. A more detailed description of the subsurface materials encountered are provided below:

**Asphalt** was encountered at the ground surface of each boring that is generally 2-inches thick.

**Fill** was encountered below the asphalt in each boring that ranges between 2.3 and 8.3 feet thick and generally consists of loose to medium dense, gray, brown/dark brown, or black, fine to coarse sand, trace

to some fine to coarse gravel, little to some silt, trace debris (i.e. asphalt, porcelain) or brown/dark brown, silt, little to and fine to coarse sand, trace fine to coarse gravel.

**Glacial Till** was encountered below the fill in each boring except Boring MM-1. Where encountered, the glacial till ranges between 3.0 and 12.5 feet thick and generally consists of dense to very dense, brown or gray, fine to coarse sand, trace to and silt, trace to some fine to coarse gravel.

**Weathered Bedrock** was encountered below the fill in Boring MM-1 and below the glacial till in Borings MM-2, MM-4, and MM-5. Where encountered, the weathered bedrock ranges between 1.7 and 5.5 feet thick and generally consists of very dense, brown-orange or -gray, fine to coarse sand, some to and silt, trace to little fine to coarse gravel or blue-gray, fine to coarse gravel, trace fine to coarse sand, trace silt.

**Bedrock** was inferred by auger and split spoon refusal in Borings MM-2 and MM-4 at 20 and 11 feet below existing grades respectively, and confirmed by coring in Borings MM-1, MM-3, and MM-5 at 14 feet below existing grades. Based on this information, the bedrock appears to slopes down from west to east and, where cored, generally consists of very poor to fair quality, medium to hard, very severe to very slightly weathered, extremely fractured to sound, gray, fine to coarse-grained schist.

**Groundwater** was encountered in Borings MM-3 and MM-5 at approximately 8.5 feet below current site grades or between approximately El. 58.5 and El. 56.5, respectively. Groundwater levels will vary depending on factors such as season, precipitation, construction activity, and other conditions, which may be different from those at the time of these observations.

## LIMITED ENVIRONMENTAL TESTING AND EVALUATION

Two soil samples were collected from each boring and submitted to a certified laboratory for various environmental laboratory tests to compare to the New York Department of Environment Conservation (NYDECs) Soil Cleanup Objectives as per Chapter 6 of the New York Code. The samples were generally collected from depths less than five feet and between ten and 12 feet below existing grades. The test results are provided in Appendix 4.

Rules and Regulations (NYCRR) Part 375, Table 375-6.8(a) and Table 375-6.8(b) were used as guidelines for determining potential reuse of the soil. Based on the test results and these guidelines, our initial thoughts are as follows:

- Three of the borings, MM-1 S-4 (10-12') , MM-4 S-3 (1-3') and MM-5 S-1 (0.5-2.5'), contained analytes which exceeded the residential and for some analytes the commercial/industrial cleanup objectives for metals and polycyclic aromatic hydrocarbon (PAH);

- The unrestricted use cleanup objective was exceeded in the shallow samples from borings MM-1, MM-2, and MM-3 for various metals (mercury, lead, trivalent chromium and barium);

- Total lead concentrations in samples MM-4 S-3 (1-3') and MM-5 S-1 (0.5-2.5') were analyzed for toxicity leaching procedure lead to determine if lead was characteristically hazardous. The results were below the toxicity characteristic threshold of 5 mg/L, therefore soil is considered non-hazardous.

The test results suggest a release has occurred in the vicinity of MM-1, MM-4 and MM-5, although the source of the release is not known. The soil in these areas although not hazardous is not suitable for unrestricted reuse on-site or for export from the site. MMI recommends the following:

- Engage an environmental consultant familiar with the NYDEC Environmental Remediation Programs 6 NYCRR Part 375 to assist with environmental cleanup, reporting and overall compliance with the regulations;

- Develop a Remedial Action Plan for the project that includes the following at a minimum:
    - Plan for additional sampling of impacted areas;
    - Procedures for evaluating soils during excavation including field screening methods to be used and analytical requirements;
    - Remedial plan for soils above the residential cleanup objectives including proposed extent of remediation and proposed disposal facilities;
    - Strategies for the management of remaining excavated materials including any additional analytical requirements, proposed disposal facilities, and/or potential reuse/export options; and
    - Potential NYDEC notification requirement, if any.

## GEOTECHNICAL ENGINEERING IMPLICATIONS OF SUBSURFACE CONDITIONS

The existing fill is only up to eight feet thick and is anticipated to be removed as a matter of course during site preparation and grading. Support for the proposed building can be provided by conventional shallow foundations bearing on the glacial till, weathered bedrock, or more competent bedrock, or on compacted granular fill (CGF) over these materials depending on the actual foundation loads.

Excavations up to approximately 20 feet are anticipate along the northern, southern, and western boundaries of the site to construct the proposed building, which will require a temporary earth retaining system (TERS). The TERS will likely be required to retain a mixed face of subsurface materials (i.e. fill, glacial till, and weathered and/or poor quality bedrock).

With the development of the design, final foundation levels and the requirements of the TERS can be further evaluated.

## GEOTECHNICAL RECOMMENDATIONS

### Building Foundations

We recommend supporting the proposed building with conventional shallow foundations that bear on undisturbed glacial till, weathered bedrock, or more competent bedrock or CGF over these materials. Where CGF is used beneath the footings, it should be placed 1 foot beyond the edge of the footings and at a one horizontal to one vertical (1H:1V) slope down and away from the bottom of footings to the top of the bearing stratum.

We recommend exterior footings bearing on glacial till or weathered bedrock should be constructed at a minimum depth of 42 inches below final grades and footings bearing on competent bedrock should be constructed a minimum depth of 12 inches below final grades to protect against frost. We recommend a

minimum depth of 12 inches be maintained below the proposed bottom of concrete floor slab and the tops of interior footings. The minimum footing size should be 12-inches and we recommend a maximum coefficient of friction of 0.55 between foundations and the recommended bearing strata. We recommend a maximum net allowable bearing pressure for footings bearing on undisturbed glacial till, weathered bedrock, competent bedrock, or CGF over these materials as shown below:

| Bearing Material Type | Net Allowable Bearing Pressure |
|---|---|
| Compacted Granular Fill (CGF) | 3 TSF |
| Weathered Bedrock or Glacial Till | 4 TSF |
| More Competent Bedrock | 10 TSF |

TSF = tons per square foot

We anticipate that the footings will experience up to approximately 1 inch of total settlement and up to approximately 1/2 inch of differential settlement. Settlements should occur as the loads are applied and will be complete at the end of construction.

**Floor Slabs**

We recommend the proposed building floor slabs consist of slab-on-grade construction. We recommend placing the concrete floor slab over a minimum 6-inch-thick base course layer of compacted sand and gravel over proof compacted natural soils or CGF over the natural soils. Slab damp proofing should be installed between the slab and the base course consisting of not less than 6-mil polyethylene with joints lapped at least 6 inches. The subgrade modulus for the recommended subgrade and base course is 125 pounds per cubic inch.

**Foundation and Sub-Slab Drainage**

We recommend the installation of perimeter foundation drains around the building. The perimeter drains should be installed flush with the bottom of the footings and should discharge by gravity to a convenient and appropriate location. The foundation drains should consist of 4-inch-diameter, perforated, polyvinyl chloride (PVC) pipe that is surrounded by at least 6 inches of crushed stone wrapped in nonwoven filter fabric.

We also recommend sub-slab drains below the floor of the building. The sub-slab drains should consist of parallel 12-inch square trenches spaced 25 feet on center below the slab base course material. The trenches should be backfilled with a 4-inch-diameter, perforated, PVC pipe surrounded by crushed stone and wrapped in nonwoven filter fabric. The PVC pipe should be connected to a common header system that discharges by gravity to a convenient and appropriate location.

We also recommend that roof drains and leaders be designed to divert water away from foundations. Other approved methods or materials may be considered or as detailed by the structural engineer.

**Seismic Site Class and Liquefaction Potential**

We estimate the average Standard Penetration Resistance Value "N" extrapolated over a 100-foot depth below the proposed building foundations to be greater than 50 blows per foot, resulting in a site class of "C" (very dense soil and soft rock) per the New York State Building Code.

Based on the mapped horizontal response spectral acceleration coefficients ($S_S$ = 0.28g, $S_1$ = 0.06g) for Port Chester, New York, we estimate $S_{MS}$ as 0.364, $S_{M1}$ as 0.09g, $S_{DS}$ as 0.243g, and $S_{D1}$ as 0.06g. Additionally, we estimate the mapped peak ground acceleration (PGA) as 0.17, and the $PGA_M$ adjusted for site class is 0.209.

The site soils were analyzed for their potential to liquify during a design earthquake. Based on the corrected standard penetration test results, estimated depths to groundwater, soil classifications, and peak ground acceleration adjusted for site class ($PGA_M$) at this locale, it is our opinion that the site soils are not prone to liquefaction during a design earthquake.

**Earth Retaining Structures**

Temporary and permanent earth retaining structures that are either cantilevered (i.e. are free to rotate at the top) or braced should be designed using the following geotechnical design parameters:

| Material Type | Total Unit Weight (pcf) | Friction Angle (degrees) | Earth Pressures Coefficients | | |
|---|---|---|---|---|---|
| | | | Ka | Kp | Ko |
| Fill | 120 | 33 | 0.29 | 3.4 | 0.46 |
| Glacial Till | 135 | 36 | 0.26 | 3.9 | 0.41 |
| Weathered Bedrock | 140 | 45 | 0.17 | 5.8 | 0.29 |

pcf = pounds per cubic foot

**MATERIALS AND COMPACTION REQUIREMENTS**

The on-site fill absent of any deleterious materials, and excavated glacial till may be suitable for reuse as compacted granular fill (CGF) or as ordinary fill in nonload-bearing areas provided that the material satisfies all other project requirements.

CGF for use as structural fill should consist of inorganic soil that is free of clay, loam, ice and snow, tree stumps, roots, and other organic matter and graded within the following limits:

| Sieve Size | Percent Finer by Weight |
|---|---|
| 3 inches | 100 |
| 1 ½ inches | 55-100 |
| ¼ inch | 25 – 60 |
| No. 10 | 15 – 45 |
| No. 40 | 5-25 |
| No. 200 | 0 – 10 |

Sand and gravel for use as slab base course should consist of hard, durable sand and gravel that is free of ice, clay, shale, roots, sod, rubbish, and other organic matter and graded within the following limits:

| Sieve Size | Percent Finer by Weight |
|---|---|
| 2 inches | 100 |
| 1/2 inch | 50 – 85 |
| No. 4 | 40 – 75 |
| No. 40 | 10 – 35 |
| No. 200 | 0 – 10 |

Crushed stone for use around drains or below foundations and slabs should consist of sound, tough, durable rock that is graded within the following limits:

| Sieve Size | Percent Finer by Weight |
|---|---|
| 3/4 inch | 100 |
| 1/2 inch | 85 – 100 |
| 3/8 inch | 15 – 45 |
| No. 4 | 0 – 15 |
| No. 8 | 0 – 5 |

Proposed fill materials should satisfy the requirements for the intended use as specified herein. We recommend a minimum in-place dry density of 95 percent as per ASTM D1557 for material placed below foundations and floor slabs. We recommend a minimum in-place dry density of 92 percent as per ASTM D1557 for material placed as backfill against structural walls. Backfill directly behind walls should be compacted with light, hand-operated compactors. Material should be placed in a maximum loose lift thickness of 10 inches and within 2 percent of its optimum moisture content.

## CONSTRUCTION CONSIDERATIONS

### Site Preparation

We recommend any deleterious materials be stripped or excavated during site preparation. Subgrade materials that are disturbed during such removal should be undercut to undisturbed material below and backfilled with CGF. The exposed subgrades should be proof compacted with a large double-drum vibratory roller prior to the start of construction.

The six existing buildings and paved parking and drive aisles will be demolished as part of the project. All existing structures and substructures must be removed from beneath the proposed building footprint prior to any construction.

### Subgrade Preparation

Excavation subgrades should be free of water, ice, frozen soil, and loose soils prior to any construction. For soil or weathered bedrock subgrades, we recommend the use of smooth-edged excavator buckets to make the final excavation to help protect the subgrade, followed by proof compaction of the exposed

subgrade. More competent bedrock subgrades should be sound and free of loose materials. Fill materials and/or concrete should be placed as soon as possible after excavation so that disturbance of bearing materials does not occur. Should the materials at bearing level become disturbed, the affected materials should be removed and replaced with CGF prior to further construction. A 4-inch-thick layer of crushed stone may be used to protect subgrades that are expected to be open for an extended period.

**Temporary Excavations**

We anticipate that a TERS will be required to construct the proposed building. All excavations should be sloped or shored in accordance with local, state, and federal regulations, including the Occupational Safety and Health Administration (OSHA) (29 CFR Part 1926) excavation trench safety standards. Where excavations can be sloped, they should be sloped in accordance with OSHA requirements for a Class "C" soil, which can be cut at a maximum of one vertical to one and one-half horizontal (1V:1.5H) up to a maximum excavation depth of 20 feet. These recommendations assume no surcharge load (i.e., stockpiles, construction equipment, etc.) at the top of the excavations or seepage (e.g., cuts below the groundwater table).

Where excavations cannot be sloped back in accordance with OSHA requirements, a TERS will be required to at least the top of competent bedrock. The TERS could consist of either cantilevered soldier piles drilled into the bedrock with lagging or a soil nails wall. If encountered, the more competent, finished rock face configuration should be no steeper than 1H:4V.

The TERS should be designed to resist the combined lateral forces resulting from earth pressures as well as those posed by any traffic and/or construction surcharge loading at the top of the excavation. The TERS should be selected by the contractor and designed by a professional engineer registered in the State of New York.

**Bedrock Excavation**

Based on a lowest finished floor at about El. 58, we do not anticipate much bedrock excavation to be performed. Where limited bedrock excavation is required, we anticipate it can be accomplished by mechanical means as the amount of excavation should be limited, and the parent rock material is not generally a hard rock.

**Groundwater Control/Dewatering**

Based on the observed groundwater levels at the time of drilling and anticipated finished floor elevations, excavations are anticipated to extend slightly below groundwater levels. However, we expect that groundwater/surface water runoff can be controlled with sumps and/or grading to low points. A crushed stone drainage blanket over the bottom of the excavation will facilitate dewatering.

**CONSTRUCTION DOCUMENTS AND PLANS**

Project drawings and specifications should be provided to MMI to review for conformance with the geotechnical recommendations contained herein. If changes are made to the location or type of structure, the recommendations in this report will need to be reviewed.

**CONSTRUCTION QUALITY CONTROL**

A qualified geotechnical engineer should make field observations of excavations and foundation preparation to monitor actual conditions for compliance with these recommendations and the project specifications in accordance with the project's Statement of Special Inspections. Specifically, we recommend field observation of footing subgrades, removal of unsuitable materials, and fill placement and compaction.

**LIMITATIONS**

This report is subject to the limitations included in Appendix 5. Thank you for the opportunity to be of service. Please feel free to call if you have any questions.

Very truly yours,

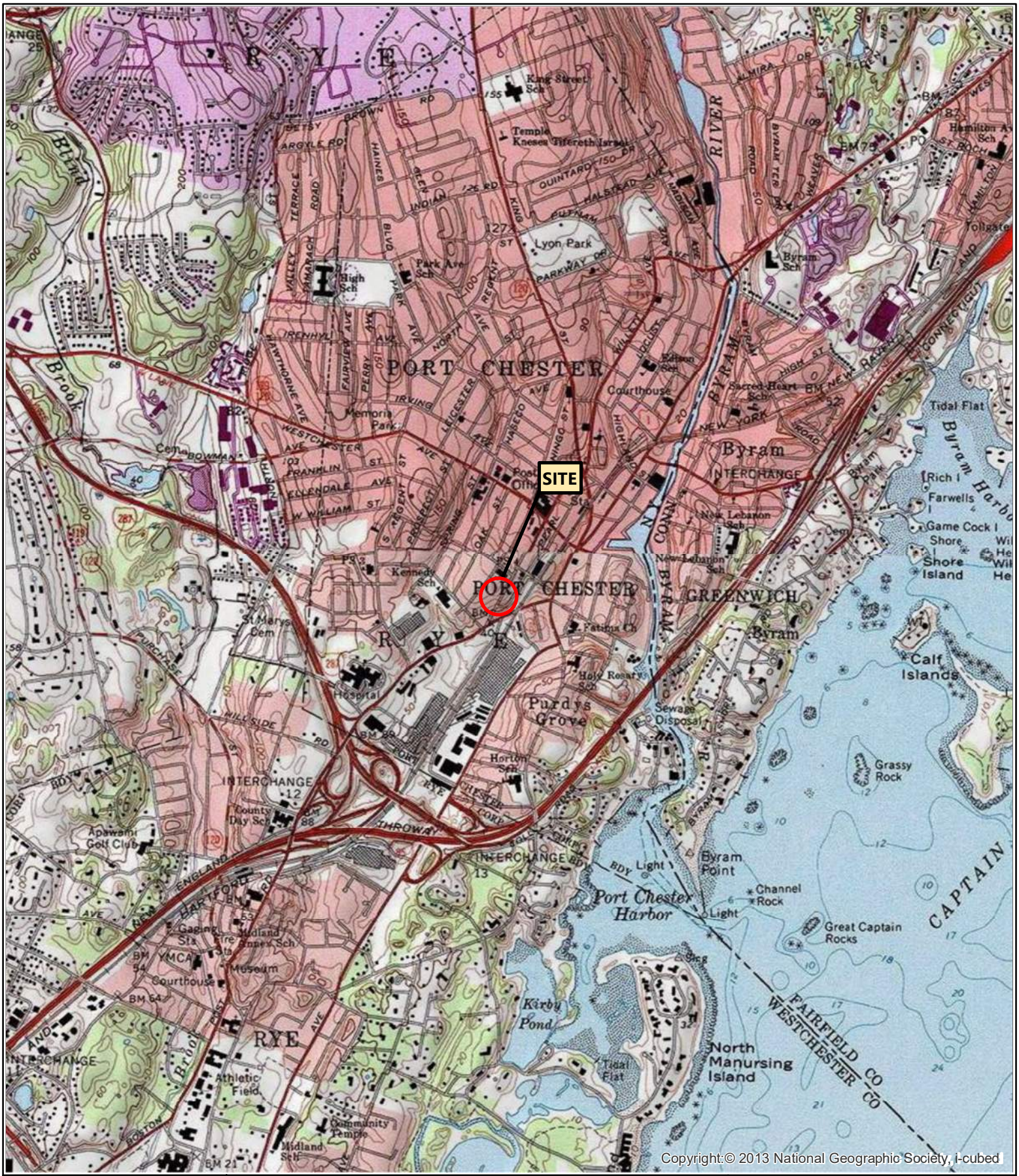
MILONE & MACBROOM, INC.

Ryan Henderson, EIT
Geotechnical Engineer

Joseph W. Kidd, PE
Senior Geotechnical Manager

Attachments: Appendix 1 – Figures
Appendix 2 – Boring Logs
Appendix 3 – Rock Core Photographic Log
Appendix 4 – Environmental Laboratory Testing
Appendix 5 – Limitations

APPENDIX 1
FIGURES




**SOURCE(S):**

2013, National Geographic Society, USA Topographic Map

# FIGURE 1 - LOCUS PLAN

**LOCATION:**

123-131 PEARL STREET
PORT CHESTER, NEW YORK

N

## 123-131 PEARL STREET DEVELOPMENT

**MAP BY:** R.H.
**CHECKED:** J.K.
**MMI#:** 7163-01
**DATE:** JULY 24, 2020
**SCALE:** 1 inch = 2,000 feet

MILONE & MACBROOM
99 REALTY DRIVE, CHESHIRE, CT
(203) 271-1773
WWW.MMINC.COM

NOTES:

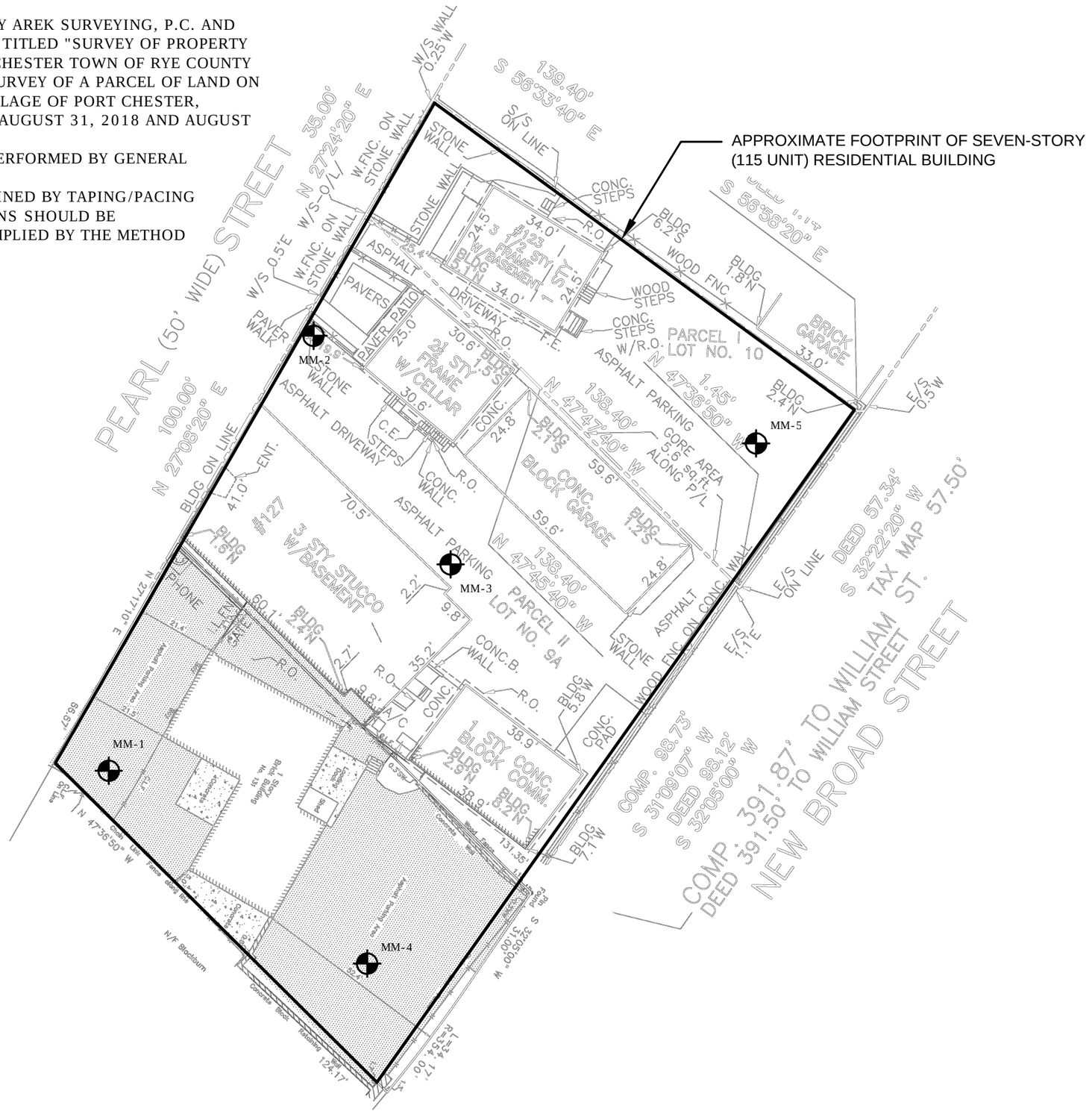
1. BASEMAP DEVELOPED FROM ELECTRONIC FILES BY AREK SURVEYING, P.C. AND RICHARD A. SPINELLI LICENSED LAND SURVEYOR TITLED "SURVEY OF PROPERTY LOCATED AT 123, 125-127 PEARL STREET, PORT CHESTER TOWN OF RYE COUNTY OF WESTCHESTER, STATE OF NEW YORK" AND "SURVEY OF A PARCEL OF LAND ON THE EASTERLY SIDE OF PEARL STREET IN THE VILLAGE OF PORT CHESTER, WESTCHESTER COUNTY, NEW YORK" AND DATED AUGUST 31, 2018 AND AUGUST 15, 2019, RESPECTIVELY.
2. BORINGS BY MILONE & MACBROOM, INC. WERE PERFORMED BY GENERAL BORINGS, INC. ON JULY 21 AND JULY 22, 2020.
3. THE LOCATIONS OF THE BORINGS WERE DETERMINED BY TAPING/PACING FROM EXISTING SITE FEATURES. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

LEGEND:

BORING BY MILONE & MACBROOM, INC.

MM-1

SCALE 1" = 30'




MILONE & MACBROOM
99 REALTY DRIVE
CHESHIRE, CT 06410
(203) 271-1773
WWW.MMINC.COM

REVISIONS

**SUBSURFACE EXPLORATION LOCATION PLAN**

**123-131 PEARL STREET DEVELOPMENT**

123-131 PEARL STREET
PORT CHESTER, NEW YORK

| -- | RMH | JWK |
|---|---|---|
| DESIGNED | DRAWN | CHECKED |

SCALE: 1"=30'

DATE: JULY 27, 2020

PROJECT NO.: 7163-01

**FIG.2**

SHEET NO.



Drawing: W:\GEOTECH\7163-01-GTX\EXPLORATIONS\SUBSURFACE EXPLORATION LOCATION PLAN.DWG Layout: Tab:SLP1
Plotted by: RYANMH On this date: Mon, 2020 July 27 -- 4:50pm

APPENDIX 2
BORING LOGS

# BORING LOG

MILONE & MACBROOM
99 Realty Drive
Cheshire, CT 06410
(203) 271-1773

| | | | |
|---|---|---|---|
| **PROJECT:** | 123-131 PEARL STREET DEVELOPMENT | **BORING NO.:** MM-1 | **SHEET:** 1 of 1 |
| **LOCATION:** | 123-131 PEARL STREET, PORT CHESTER, NEW YORK | **CONTRACTOR:** GENERAL BORINGS, INC. | |
| **PROJ. NO:** | 7163-01 | **FOREMAN:** T. MCGOVERN | |
| **CLIENT:** | 131 PEARL STREET OWNER, LLC | **INSPECTOR:** R. HENDERSON | |
| **DATE:** | JULY 21, 2020 & JULY 22, 2020 | **GROUND SURFACE ELEVATION:** | ±76.0' |

| **EQUIPMENT:** | **AUGER** | **CASING** | **SAMPLER** | **COREBRL.** | **GROUNDWATER DEPTH (FT.)** | | | **TYPE OF RIG:** |
|---|---|---|---|---|---|---|---|---|
| **TYPE** | HSA | NX | SS | NQ | **DATE** | **TIME** | **WATER DEPTH** | TRUCK W/ SAFETY HAMMER |
| **SIZE ID (IN.)** | 4 1/4 | 3.0 | 1 3/8 | 1 7/8 | 2020-07-22 | | NOT ENCOUNTERED | **RIG MODEL:** |
| **HMR. WT (LB.)** | - | - | 140 | - | | | | MOBILE B-53 |
| **HMR. FALL (IN.)** | - | - | 30 | - | | | | |

| Depth (FT) | SAMPLE NUMBER | RECOVERY (IN) | BLOWS PER 6"/ MIN. PER FT. | SOIL AND ROCK CLASSIFICATION-DESCRIPTION<br>BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK) | DEPTH (FT.) | STRATUM DESCRIPTION | ELEV. (FT.) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | Top 2": ASPHALT. Bottom 10": Gray, fine to coarse SAND, some fine to coarse Gravel, little Silt. | 0.2' | **ASPHALT** | 75.8' | |
| 2 | S-1 | 8 | 9<br>9<br>12<br>12 | S-1: Medium dense, gray-brown, fine to coarse SAND, little fine to coarse Gravel, little Silt, trace Debris (i.e. asphalt).<br>PID = 0.8 ppm | | | | |
| 3 | | | | | | | | |
| 4 | S-2 | 10 | 11<br>5<br>6<br>5 | S-2: Medium dense, dark brown, fine to coarse SAND, some Silt, trace fine Gravel.<br>PID = 1.0 ppm | | **FILL** | | |
| 5 | | | | | | | | |
| 6 | S-3 | 10 | 5<br>3<br>4<br>8 | S-3: Loose, brown, fine to coarse SAND, little Silt, little fine Gravel.<br>PID = 0.2 ppm | | | | |
| 7 | | | | | | | | |
| 8 | | | | | 8.5' | | 67.5' | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | S-4 | 16 | 20<br>27<br>39<br>80 | S-4: Very dense, brown-orange, fine to coarse SAND, some Silt, trace fine to coarse Gravel.<br>PID = 0.2 ppm | | **WEATHERED BEDROCK** | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | 1 |
| 14 | | | | | 14.0' | | 62.0' | |
| 15 | C-1 | 31 | 4.5<br>2.8 | C-1: Poor quality, medium to hard, severe to slightly weathered, extremely fractured to sound, gray, fine to coarse grained SCHIST.<br>REC=52%, RQD=27% | | | | |
| 16 | | | | | | | | |
| 17 | | | 2.2<br>2.0 | | | **BEDROCK** | | |
| 18 | | | 2.5 | | | | | |
| 19 | | | | | 19.0' | | 57.0' | |
| 20 | | | | Bottom of Exploration ±19.0' | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |

**Remarks:** 1. Hollow stem auger (HSA) refusal at ±13.5'. Upon refusal, hollow stem augers were removed from the borehole and 3-inch I.D NX casing was advanced to refusal (±14.0').

| NON-PLASTIC (SPT-N) | PLASTIC (SPT-N) | SAMPLE TYPE | PROPORTIONS |
|---|---|---|---|
| 0-4 = VERY LOOSE | 0-2 = VERY SOFT | C = ROCK CORE | trace = <10% |
| 4-10 = LOOSE | 2-4 = SOFT | S = SPLIT SPOON | little = 10% - 20% |
| 10-30 = MEDIUM DENSE | 4-8 = MEDIUM | UP = UNDISTURBED PISTON | some = 20% - 35% |
| 30-50 = DENSE | 8 -15 = STIFF | UT = UNDISTURBED THINWALL | and = 35% - 50% |
| 50+ = VERY DENSE | 15-30 = VERY STIFF | | |
| | 30 + = HARD | | |

# BORING LOG

MILONE & MACBROOM
99 Realty Drive
Cheshire, CT 06410
(203) 271-1773

| | | | |
|---|---|---|---|
| **PROJECT:** | 123-131 PEARL STREET DEVELOPMENT | **BORING NO.:** MM-2 | **SHEET:** 1 of 1 |
| **LOCATION:** | 123-131 PEARL STREET, PORT CHESTER, NEW YORK | **CONTRACTOR:** GENERAL BORINGS, INC. | |
| **PROJ. NO:** | 7163-01 | **FOREMAN:** T. MCGOVERN | |
| **CLIENT:** | 131 PEARL STREET OWNER, LLC | **INSPECTOR:** R. HENDERSON | |
| **DATE:** | JULY 22, 2020 | **GROUND SURFACE ELEVATION:** | ±76.0' |

| **EQUIPMENT:** | **AUGER** | **CASING** | **SAMPLER** | **COREBRL.** | **GROUNDWATER DEPTH (FT.)** | | | **TYPE OF RIG:** |
|---|---|---|---|---|---|---|---|---|
| **TYPE** | HSA | - | SS | - | **DATE** | **TIME** | **WATER DEPTH** | TRUCK W/ SAFETY HAMMER |
| **SIZE ID (IN.)** | 4 1/4 | - | 1 3/8 | - | 2020-07-22 | | NOT ENCOUNTERED | **RIG MODEL:** |
| **HMR. WT (LB.)** | - | - | 140 | - | | | | MOBILE B-53 |
| **HMR. FALL (IN.)** | - | - | 30 | - | | | | |

| Depth (FT) | SAMPLE NUMBER | RECOVERY (IN) | BLOWS PER 6"/ MIN. PER FT. | SOIL AND ROCK CLASSIFICATION-DESCRIPTION<br>BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK) | DEPTH (FT.) | STRATUM DESCRIPTION | ELEV. (FT.) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | Top 2": ASPHALT. Bottom 10": Brown, fine to coarse SAND, some Silt, little fine to coarse Gravel. | 0.2' | **ASPHALT** | 75.8' | |
| 2 | S-1 | 17 | 15<br>15<br>12<br>6 | S-1: Medium dense, brown, fine to coarse SAND, some Silt, little fine to coarse Gravel.<br>PID = 0.5 ppm | | | | |
| 3 | | | | | | **FILL** | | |
| 4 | S-2 | 10 | 14<br>18<br>11<br>7 | S-2: Medium dense, dark brown, SILT and fine to coarse SAND, trace fine to coarse Gravel.<br>PID = 0.2 ppm | | | | |
| 5 | | | | | | | | |
| 6 | S-3 | 12 | 6<br>11<br>27<br>32 | S-3: Dense, brown, fine to coarse SAND, little Silt, little fine to coarse Gravel.<br>PID = 0.0 ppm | 6.0' | | 70.0' | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | S-4 | 15 | 15<br>28<br>38<br>70 | S-4: Very dense, brown, fine to coarse SAND, little Silt, little fine to coarse Gravel.<br>PID = 1.5 ppm | | | | |
| 12 | | | | | | **GLACIAL TILL** | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | S-5 | 16 | 25<br>33<br>47<br>49 | S-5: Very dense, gray, fine to coarse SAND, little Silt, trace fine Gravel.<br>PID = 0.0 ppm | | | | |
| 17 | | | | | | | | |
| 18 | | | | | 18.5' | | 57.5' | |
| 19 | | | | | | **WEATHERED BEDROCK** | | |
| 20 | S-6 | 2 | 50/2" | S-6: Very dense, brown-gray, fine to coarse SAND and SILT, trace fine Gravel. | 20.2' | | 55.8' | 1 |
| 21 | | | | Bottom of Exploration ±20.2' | | | | |
| 22 | | | | | | | | |

**Remarks:** 1. Hollow stem auger (HSA) refusal at ±20.0'.

| NON-PLASTIC (SPT-N) | PLASTIC (SPT-N) | SAMPLE TYPE | PROPORTIONS |
|---|---|---|---|
| 0-4 = VERY LOOSE | 0-2 = VERY SOFT | C = ROCK CORE | trace = <10% |
| 4-10 = LOOSE | 2-4 = SOFT | S = SPLIT SPOON | little = 10% - 20% |
| 10-30 = MEDIUM DENSE | 4-8 = MEDIUM | UP = UNDISTURBED PISTON | some = 20% - 35% |
| 30-50 = DENSE | 8 -15 = STIFF | UT = UNDISTURBED THINWALL | and = 35% - 50% |
| 50+ = VERY DENSE | 15-30 = VERY STIFF | | |
| | 30 + = HARD | | |

# BORING LOG

MILONE & MACBROOM
99 Realty Drive
Cheshire, CT 06410
(203) 271-1773

| | | | |
|---|---|---|---|
| **PROJECT:** | 123-131 PEARL STREET DEVELOPMENT | **BORING NO.:** MM-3 | **SHEET:** 1 of 2 |
| **LOCATION:** | 123-131 PEARL STREET, PORT CHESTER, NEW YORK | **CONTRACTOR:** GENERAL BORINGS, INC. | |
| **PROJ. NO:** | 7163-01 | **FOREMAN:** T. MCGOVERN | |
| **CLIENT:** | 131 PEARL STREET OWNER, LLC | **INSPECTOR:** R. HENDERSON | |
| **DATE:** | JULY 21, 2020 | **GROUND SURFACE ELEVATION:** | ±67.0' |

| **EQUIPMENT:** | **AUGER** | **CASING** | **SAMPLER** | **COREBRL.** | **GROUNDWATER DEPTH (FT.)** | | | **TYPE OF RIG:** |
|---|---|---|---|---|---|---|---|---|
| **TYPE** | HSA | NX | SS | NQ | **DATE** | **TIME** | **WATER DEPTH** | TRUCK W/ SAFETY HAMMER |
| **SIZE ID (IN.)** | 4 1/4 | 3.0 | 1 3/8 | 1 7/8 | 2020-07-21 | | ±8.5' | **RIG MODEL:** |
| **HMR. WT (LB.)** | - | - | 140 | - | | | | MOBILE B-53 |
| **HMR. FALL (IN.)** | - | - | 30 | - | | | | |

| Depth (FT) | SAMPLE NUMBER | RECOVERY (IN) | BLOWS PER 6"/ MIN. PER FT. | SOIL AND ROCK CLASSIFICATION-DESCRIPTION<br>BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK) | DEPTH (FT.) | STRATUM DESCRIPTION | ELEV. (FT.) | Remark |
|---|---|---|---|---|---|---|---|---|
| | | | | Top 2": ASPHALT. Bottom 4": Black, fine to coarse SAND, some fine to coarse Gravel, little Silt. | 0.2' | **ASPHALT** | 66.8' | |
| 1 | S-1 | 15 | 12 | S-1: Loose, Top 4": Black, fine to coarse SAND, some fine to coarse Gravel, little Silt. | | | | |
| | | | 5 | Middle 7": Dark brown, SILT, little fine to coarse Sand, trace fine Gravel. | | **FILL** | | |
| 2 | | | 3 | Bottom 4": Brown, SILT, little fine to medium Sand. | | | | |
| | | | 4 | PID = 1.5 ppm | 2.5' | | 64.5' | |
| 3 | S-2 | 14 | 22 | S-2: Dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. | | | | |
| | | | 23 | PID = 3.6 ppm | | | | |
| 4 | | | 30 | | | | | |
| | | | 30 | | | | | |
| 5 | | | | | | | | |
| | S-3 | 15 | 20 | S-3: Dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. | | | | |
| 6 | | | 21 | PID = 1.6 ppm | | | | |
| | | | 24 | | | | | |
| 7 | | | 29 | | | | | |
| | | | | | | **GLACIAL TILL** | | |
| 8 | | | | | 8.5' | **G.W.T** ▼ | 58.5' | |
| | | | | | | | | |
| 9 | | | | | | | | |
| | | | | | | | | |
| 10 | S-4 | 6 | 23 | S-4: Very dense, brown, fine to coarse SAND, some Silt, trace fine Gravel. | | | | |
| | | | 70/4" | PID = 2.9 ppm | | | | |
| 11 | | | | | | | | 1 |
| | | | | | | | | |
| 12 | | | | | | | | |
| | | | | | | | | |
| 13 | | | | | | | | |
| | | | | | | | | |
| 14 | | | | | 14.0' | | 53.0' | |
| | C-1 | 19 | 1.2 | C-1: Very poor quality, moderately hard to hard, very severe to moderately weathered, extremely to moderately fractured, gray, fine to coarse grained SCHIST. | | | | |
| 15 | | | 0.7 | REC=32%, RQD=7% | | | | |
| | | | | | | | | |
| 16 | | | 0.8 | | | | | |
| | | | | | | | | |
| 17 | | | 2.7 | | | | | |
| | | | | | | | | |
| 18 | | | 2.0 | | | **BEDROCK** | | |
| | | | | | | | | |
| 19 | | | 2.0 | C-2: Fair quality, medium to hard, slight to very slightly weathered, moderately fractured to sound, gray, fine to coarse grained SCHIST, horizontal to shallow dipping. | | | | |
| | | | | | | | | |
| 20 | | | 2.8 | REC=100%, RQD=63% | | | | |
| | C-2 | 60 | | | | | | |
| 21 | | | 2.8 | | | | | |
| | | | | | | | | |
| 22 | | | 5.0 | | | | | |

**Remarks:** 1. Hollow stem auger (HSA) refusal at ±13.5'. Upon refusal, hollow stem augers were removed from the borehole and 3-inch I.D NX casing was advanced to refusal (±14.0').

| NON-PLASTIC (SPT-N) | PLASTIC (SPT-N) | SAMPLE TYPE | PROPORTIONS |
|---|---|---|---|
| 0-4 = VERY LOOSE | 0-2 = VERY SOFT | C = ROCK CORE | trace = <10% |
| 4-10 = LOOSE | 2-4 = SOFT | S = SPLIT SPOON | little = 10% - 20% |
| 10-30 = MEDIUM DENSE | 4-8 = MEDIUM | UP = UNDISTURBED PISTON | some = 20% - 35% |
| 30-50 = DENSE | 8 -15 = STIFF | UT = UNDISTURBED THINWALL | and = 35% - 50% |
| 50+ = VERY DENSE | 15-30 = VERY STIFF | | |
| | 30 + = HARD | | |

# BORING LOG

MILONE & MACBROOM
99 Realty Drive
Cheshire, CT 06410
(203) 271-1773

| | | | |
|---|---|---|---|
| **PROJECT:** | 123-131 PEARL STREET DEVELOPMENT | **BORING NO.:** MM-3 | **SHEET:** 2 of 2 |
| **LOCATION:** | 123-131 PEARL STREET, PORT CHESTER, NEW YORK | **CONTRACTOR:** GENERAL BORINGS, INC. | |
| **PROJ. NO:** | 7163-01 | **FOREMAN:** T. MCGOVERN | |
| **CLIENT:** | 131 PEARL STREET OWNER, LLC | **INSPECTOR:** R. HENDERSON | |
| **DATE:** | JULY 21, 2020 | **GROUND SURFACE ELEVATION:** | ±67.0' |

| **EQUIPMENT:** | **AUGER** | **CASING** | **SAMPLER** | **COREBRL.** | **GROUNDWATER DEPTH (FT.)** | | | **TYPE OF RIG:** |
|---|---|---|---|---|---|---|---|---|
| **TYPE** | HSA | NX | SS | NQ | **DATE** | **TIME** | **WATER DEPTH** | TRUCK W/ SAFETY HAMMER |
| **SIZE ID (IN.)** | 4 1/4 | 3.0 | 1 3/8 | 1 7/8 | 2020-07-21 | | ±8.5' | **RIG MODEL:** |
| **HMR. WT (LB.)** | - | - | 140 | - | | | | MOBILE B-53 |
| **HMR. FALL (IN.)** | - | - | 30 | - | | | | |

| Depth (FT) | SAMPLE NUMBER | RECOVERY (IN) | BLOWS PER 6"/ MIN. PER FT. | SOIL AND ROCK CLASSIFICATION-DESCRIPTION<br>BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK) | DEPTH (FT.) | STRATUM DESCRIPTION | ELEV. (FT.) | Remark |
|---|---|---|---|---|---|---|---|---|
| | | | 2.5 | | 24.0' | **BEDROCK** | 43.0' | |
| 24 | | | | Bottom of Exploration ±24.0' | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 32 | | | | | | | | |
| 33 | | | | | | | | |
| 34 | | | | | | | | |
| 35 | | | | | | | | |
| 36 | | | | | | | | |
| 37 | | | | | | | | |
| 38 | | | | | | | | |
| 39 | | | | | | | | |
| 40 | | | | | | | | |
| 41 | | | | | | | | |
| 42 | | | | | | | | |
| 43 | | | | | | | | |
| 44 | | | | | | | | |
| 45 | | | | | | | | |

**Remarks:**

| NON-PLASTIC (SPT-N) | PLASTIC (SPT-N) | SAMPLE TYPE | PROPORTIONS |
|---|---|---|---|
| 0-4 = VERY LOOSE | 0-2 = VERY SOFT | C = ROCK CORE | trace = <10% |
| 4-10 = LOOSE | 2-4 = SOFT | S = SPLIT SPOON | little = 10% - 20% |
| 10-30 = MEDIUM DENSE | 4-8 = MEDIUM | UP = UNDISTURBED PISTON | some = 20% - 35% |
| 30-50 = DENSE | 8 -15 = STIFF | UT = UNDISTURBED THINWALL | and = 35% - 50% |
| 50+ = VERY DENSE | 15-30 = VERY STIFF | | |
| | 30 + = HARD | | |

# BORING LOG

MILONE & MACBROOM
99 Realty Drive
Cheshire, CT 06410
(203) 271-1773

| | | | |
|---|---|---|---|
| **PROJECT:** | 123-131 PEARL STREET DEVELOPMENT | **BORING NO.:** MM-4 | **SHEET:** 1 of 1 |
| **LOCATION:** | 123-131 PEARL STREET, PORT CHESTER, NEW YORK | **CONTRACTOR:** GENERAL BORINGS, INC. | |
| **PROJ. NO:** | 7163-01 | **FOREMAN:** T. MCGOVERN | |
| **CLIENT:** | 131 PEARL STREET OWNER, LLC | **INSPECTOR:** R. HENDERSON | |
| **DATE:** | JULY 22, 2020 | **GROUND SURFACE ELEVATION:** | ±62.0' |

| **EQUIPMENT:** | **AUGER** | **CASING** | **SAMPLER** | **COREBRL.** | **GROUNDWATER DEPTH (FT.)** | | | **TYPE OF RIG:** |
|---|---|---|---|---|---|---|---|---|
| **TYPE** | HSA | - | SS | - | **DATE** | **TIME** | **WATER DEPTH** | TRUCK W/ SAFETY HAMMER |
| **SIZE ID (IN.)** | 4 1/4 | - | 1 3/8 | - | 2020-07-22 | | NOT ENCOUNTERED | **RIG MODEL:** |
| **HMR. WT (LB.)** | - | - | 140 | - | | | | MOBILE B-53 |
| **HMR. FALL (IN.)** | - | - | 30 | - | | | | |

| Depth (FT) | SAMPLE NUMBER | RECOVERY (IN) | BLOWS PER 6"/ MIN. PER FT. | SOIL AND ROCK CLASSIFICATION-DESCRIPTION<br>BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK) | DEPTH (FT.) | STRATUM DESCRIPTION | ELEV. (FT.) | Remark |
|---|---|---|---|---|---|---|---|---|
| | | | | Top 2": ASPHALT. Bottom 10": Brown, fine to coarse SAND, little Silt, little fine Gravel. | 0.2' | **ASPHALT** | 61.8' | |
| 1 | | | | | | | | |
| 2 | S-1 | 7 | 4<br>12<br>17<br>20 | S-1: Medium dense, brown, fine to coarse SAND, little Silt, little fine Gravel, trace Debris (i.e. porcelain).<br>PID = 1.2 ppm | | **FILL** | | |
| 3 | | | | | 3.0' | | 59.0' | |
| 4 | S-2 | 13 | 32<br>22<br>26<br>16 | S-2: Dense, brown, fine to coarse SAND, little Silt, little fine to coarse Gravel.<br>PID = 2.6 ppm | | **GLACIAL TILL** | | |
| 5 | | | | | | | | |
| 6 | S-3 | 17 | 13<br>13<br>26<br>80 | S-3: Dense, Top 9": Gray, fine to coarse SAND, some Silt, little fine Gravel.<br>Bottom 8": Gray-brown, fine to coarse SAND, some Silt, trace fine Gravel.<br>PID = 6.4 ppm | 6.0' | | 56.0' | |
| 7 | | | | | | **WEATHERED BEDROCK** | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | S-4 | 10 | 22<br>70/4" | S-4: Very dense, gray-brown, fine to coarse SAND, some Silt, little fine to coarse Gravel.<br>PID = 11.3 ppm | 11.0' | | 51.0' | 1 |
| 11 | | | | Bottom of Exploration ±11.0' | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |

**Remarks:** 1. Hollow stem auger (HSA) refusal at ±11.0'.

| NON-PLASTIC (SPT-N) | PLASTIC (SPT-N) | SAMPLE TYPE | PROPORTIONS |
|---|---|---|---|
| 0-4 = VERY LOOSE | 0-2 = VERY SOFT | C = ROCK CORE | trace = <10% |
| 4-10 = LOOSE | 2-4 = SOFT | S = SPLIT SPOON | little = 10% - 20% |
| 10-30 = MEDIUM DENSE | 4-8 = MEDIUM | UP = UNDISTURBED PISTON | some = 20% - 35% |
| 30-50 = DENSE | 8 -15 = STIFF | UT = UNDISTURBED THINWALL | and = 35% - 50% |
| 50+ = VERY DENSE | 15-30 = VERY STIFF | | |
| | 30 + = HARD | | |

# BORING LOG

MILONE & MACBROOM
99 Realty Drive
Cheshire, CT 06410
(203) 271-1773

| | | | |
|---|---|---|---|
| **PROJECT:** | 123-131 PEARL STREET DEVELOPMENT | **BORING NO.:** MM-5 | **SHEET:** 1 of 1 |
| **LOCATION:** | 123-131 PEARL STREET, PORT CHESTER, NEW YORK | **CONTRACTOR:** GENERAL BORINGS, INC. | |
| **PROJ. NO:** | 7163-01 | **FOREMAN:** T. MCGOVERN | |
| **CLIENT:** | 131 PEARL STREET OWNER, LLC | **INSPECTOR:** R. HENDERSON | |
| **DATE:** | JULY 21, 2020 | **GROUND SURFACE ELEVATION:** | ±65.0' |

| **EQUIPMENT:** | **AUGER** | **CASING** | **SAMPLER** | **COREBRL.** | **GROUNDWATER DEPTH (FT.)** | | | **TYPE OF RIG:** |
|---|---|---|---|---|---|---|---|---|
| **TYPE** | HSA | NX | SS | NQ | **DATE** | **TIME** | **WATER DEPTH** | TRUCK W/ SAFETY HAMMER |
| **SIZE ID (IN.)** | 4 1/4 | 3.0 | 1 3/8 | 1 7/8 | 2020-07-21 | | NOT ENCOUNTERED | **RIG MODEL:** |
| **HMR. WT (LB.)** | - | - | 140 | - | | | | MOBILE B-53 |
| **HMR. FALL (IN.)** | - | - | 30 | - | | | | |

| Depth (FT) | SAMPLE NUMBER | RECOVERY (IN) | BLOWS PER 6"/ MIN. PER FT. | SOIL AND ROCK CLASSIFICATION-DESCRIPTION<br>BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK) | DEPTH (FT.) | STRATUM DESCRIPTION | ELEV. (FT.) | Remark |
|---|---|---|---|---|---|---|---|---|
| | | | | Top 2": ASPHALT. Bottom 4": Black, fine to coarse SAND, some fine to coarse Gravel, little Silt. | 0.2' | **ASPHALT** | 64.2' | |
| 1 | S-1 | 16 | 4 | S-1: Loose, dark brown, SILT and fine to medium SAND. | | | | |
| | | | 3 | PID = 0.5 ppm | | | | |
| 2 | | | 4 | | | | | |
| | | | 4 | | | | | |
| 3 | S-2 | 11 | 4 | S-2: Medium dense, brown-orange, SILT, some fine to coarse Sand, trace fine to coarse Gravel. | | **FILL** | | |
| | | | 6 | | | | | |
| 4 | | | 7 | PID = 1.8 ppm | | | | |
| | | | 4 | | | | | |
| 5 | | | | | 5.5' | | 59.5' | |
| | S-3 | 8 | 2 | S-3: Dense, brown, fine to coarse SAND, some Silt, some fine to coarse Gravel. | | | | |
| 6 | | | 12 | PID = 1.1 ppm | | | | |
| | | | 22 | | | | | |
| 7 | | | 35 | | | | | |
| | | | | | | **GLACIAL TILL** | | |
| 8 | | | | | 8.5' | **G.W.T** ▼ | 56.5' | |
| | | | | | | | | |
| 9 | | | | | | | | |
| | | | | | | | | |
| 10 | | | | | | | | |
| | S-4 | 12 | 9 | S-4: Very dense, Top 9": Brown, fine to coarse SAND & SILT, little fine to coarse Gravel. | | | | |
| 11 | | | 13 | Bottom 3": Blue-gray, fine to coarse GRAVEL, trace fine to coarse Sand, trace Silt. | | | | |
| | | | 73 | PID = 8.0 ppm | 11.5' | | 53.5' | |
| 12 | | | 50/3" | | | **WEATHERED BEDROCK** | | |
| | | | | | | | | 1 |
| 13 | | | | | | | | |
| | | | | | 14.0' | | 51.0' | |
| 14 | | | | | | | | |
| | C-1 | 60 | 3.2 | C-1: Fair quality, medium to hard, moderate to slightly weathered, moderately fractured to sound, gray, fine to coarse grained SCHIST, horizontal to shallow dipping. | | | | |
| 15 | | | 3.0 | REC=100%, RQD=53% | | | | |
| 16 | | | 2.6 | | | **BEDROCK** | | |
| 17 | | | 3.5 | | | | | |
| 18 | | | 4.0 | | | | | |
| | | | | | 19.0' | | 46.0' | |
| 19 | | | | Bottom of Exploration ±19.0' | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |

**Remarks:** 1. Hollow stem auger (HSA) refusal at ±13.5'. Upon refusal, hollow stem augers were removed from the borehole and 3-inch I.D NX casing was advanced to refusal (±14.0').

| NON-PLASTIC (SPT-N) | PLASTIC (SPT-N) | SAMPLE TYPE | PROPORTIONS |
|---|---|---|---|
| 0-4 = VERY LOOSE | 0-2 = VERY SOFT | C = ROCK CORE | trace = <10% |
| 4-10 = LOOSE | 2-4 = SOFT | S = SPLIT SPOON | little = 10% - 20% |
| 10-30 = MEDIUM DENSE | 4-8 = MEDIUM | UP = UNDISTURBED PISTON | some = 20% - 35% |
| 30-50 = DENSE | 8 -15 = STIFF | UT = UNDISTURBED THINWALL | and = 35% - 50% |
| 50+ = VERY DENSE | 15-30 = VERY STIFF | | |
| | 30 + = HARD | | |

APPENDIX 3
ROCK CORE PHOTOGRAPHIC LOG

MILONE & MACBROOM

# PHOTOGRAPHIC LOG

123-131 Pearl Street Development – Rock Cores

| **Client Name:** | **Site Location:** | **Project No.:** |
|---|---|---|
| 131 Pearl Street Owner, LLC | 123-131 Pearl Street<br>Port Chester, New York | 7163-01 |

| **Photo No.:** | **Date:** |
|---|---|
| 1 | 7/22/2020 |

**Description:**
View of bedrock retrieved from 5-foot core runs from Borings MM-1 (C-1), MM-3 (C-1 & C-2), and MM-5 (C-1). Detailed data shown on box and boring logs. Note that the left side of the box is the top of the core.

| **Photo No.:** | **Date:** |
|---|---|
| 2 | 7/22/2020 |

**Description:**
View of upper portion of rock cores from Borings MM-1 (C-1), MM-3 (C-1 & C-2), and MM-5 (C-1). Lower portion of rock cores shown in Photo No. 3.

| **Photo No.:** | **Date:** |
|---|---|
| 3 | 7/22/2020 |

**Description:**
View of lower portion of rock cores from Borings MM-1 (C-1), MM-3 (C-1 & C-2), and MM-5 (C-1). Upper portion of rock cores shown in Photo No. 2.

APPENDIX 4
ENVIRONMENTAL LABORATORY TESTING

**Table 1: Summary of Soil Analytical Results**
123-131 Pearl Street Development
Port Chester, NY

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

Project Id : 123-131 PEARL STREET DEVEOLPMENT

| | Lab Sample Id<br>Collection Date<br>Client Id<br>Matrix | | NYDEC Soil Cleanup Objectives (6 CRR-NY 375-6.8) | | | | CG38945<br>7/21/2020<br>MM-5 S-1 (0.5-2.5`)<br>Soil | | CG38946<br>7/21/2020<br>MM-5 S-4 (10-12`)<br>Soil | | CG38947<br>7/21/2020<br>MM-3 S-1 (0.5-2.5`)<br>Soil | | CG38948<br>7/21/2020<br>MM-3 S-1 (10-12`)<br>Soil | | CG38949<br>7/21/2020<br>MM-1 S-2 (3-5`)<br>Soil | | CG38950<br>7/21/2020<br>MM-1 S-4 (10-12`)<br>Soil | | CG38951<br>7/21/2020<br>MM-2 S-2 (3-5`)<br>Soil | | CG38952<br>7/21/2020<br>MM-2 S-4 (10-12`)<br>Soil | | CG38953<br>7/21/2020<br>MM-4 S-3 (1-3`)<br>Soil | | CG38954<br>7/21/2020<br>MM-4 S-3 (5-7.5`)<br>Soil | | CG38955<br>7/21/2020<br>TRIP BLANK LL<br>Soil | | CG38956<br>7/21/2020<br>TRIP BLANK HL<br>Soil | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CAS | Units | Unrestricted Use | Residential | Restricted Use Residential | Commercial/Industrial | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| **Miscellaneous/Inorganics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Solid | PHNX - PCTSOLID | % | | | | | 82 | | 89 | | 83 | | 86 | | 88 | | 91 | | 86 | | 94 | | 91 | | 89 | | | | | |
| Chromium, Hex. (SW3060 digestion) | 18540-29-9 | mg/Kg | | | | | | | | | | | | | | | < 0.42 | 0.42 | | | | | < 0.43 | 0.43 | | | | | | |
| **Metals, Total** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/Kg | 13 | 16 | 16 | 16 | 23.9 | 0.73 | 1.12 | 0.72 | 4.16 | 0.73 | 1.25 | 0.74 | 2.88 | 0.68 | 0.98 | 0.67 | 2.14 | 0.74 | 1.23 | 0.67 | 4.92 | 0.72 | 1.59 | 0.79 | | | | |
| Barium | 7440-39-3 | mg/Kg | 350 | 350 | 400 | 400 | 300 | 0.37 | 105 | 0.36 | 120 | 0.36 | 103 | 0.37 | 132 | 0.34 | 357 | 0.34 | 104 | 0.37 | 83.7 | 0.34 | 209 | 0.36 | 85.5 | 0.40 | | | | |
| Cadmium | 7440-43-9 | mg/Kg | 2.5 | 2.5 | 4.3 | 7.5 | 2.21 | 0.37 | 1.34 | 0.36 | 2 | 0.36 | 1.36 | 0.37 | 1.49 | 0.34 | 2.38 | 0.34 | 1.63 | 0.37 | 1.27 | 0.34 | 2.24 | 0.36 | 1.22 | 0.40 | | | | |
| Chromium* | 7440-47-3 | mg/Kg | 30 | 36 | 180 | 1500 | 36.7 | 0.37 | 25.6 | 0.36 | 35.7 | 0.36 | 26.9 | 0.37 | 26.4 | 0.34 | 54 | 0.34 | 30.1 | 0.37 | 19.4 | 0.34 | 45.3 | 0.36 | 19.1 | 0.40 | | | | |
| Trivalent Chromium | 16065-83-3 | mg/kg | 30 | 36 | 180 | 1500 | | | | | | | | | | | 54 | 0.34 | | | | | 45.3 | 0.36 | | | | | | |
| Lead | 7439-92-1 | mg/Kg | 63 | 400 | 400 | 450 | 743 | 0.37 | 4.21 | 0.36 | 11.9 | 0.36 | 5.63 | 0.37 | 88.6 | 0.34 | 4.46 | 0.34 | 7.46 | 0.37 | 5.95 | 0.34 | 2,370 | 36 | 7.02 | 0.40 | | | | |
| Mercury | 7439-97-6 | mg/Kg | 0.18 | 0.73 | 0.73 | 0.73 | 1.5 | 0.08 | < 0.03 | 0.03 | < 0.03 | 0.03 | < 0.03 | 0.03 | 0.43 | 0.03 | < 0.03 | 0.03 | < 0.03 | 0.03 | < 0.03 | 0.03 | 0.65 | 0.03 | < 0.03 | 0.03 | | | | |
| Selenium | 7782-49-2 | mg/Kg | 3.9 | 4 | 4 | 4 | < 1.5 | 1.5 | < 1.4 | 1.4 | < 1.5 | 1.5 | < 1.5 | 1.5 | < 1.4 | 1.4 | < 1.3 | 1.3 | < 1.5 | 1.5 | < 1.3 | 1.3 | < 1.4 | 1.4 | < 1.6 | 1.6 | | | | |
| Silver | 7440-22-4 | mg/Kg | 2 | 8.3 | 8.3 | 8.3 | < 0.37 | 0.37 | < 0.36 | 0.36 | < 0.36 | 0.36 | < 0.37 | 0.37 | < 0.34 | 0.34 | < 0.34 | 0.34 | < 0.37 | 0.37 | < 0.34 | 0.34 | < 0.36 | 0.36 | < 0.40 | 0.40 | | | | |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCLP Lead | 7439-92-1 | mg/L | NE | NE | NE | NE | 0.28 | 0.10 | | | | | | | | | | | | | | | 0.18 | 0.10 | | | | | | |
| **PCBs By SW8082A** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total PCBS | 12674-11-2 | mg/kg | 0.1 | 1 | 1 | 1 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | | | | | |
| **Volatiles By SW8260C** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | 67-64-1 | ug/Kg | 50 | 50 | 50 | 50 | < 29 | 29 | < 41 | 41 | < 29 | 29 | < 30 | 30 | < 45 | 45 | < 37 | 37 | < 32 | 32 | < 24 | 24 | < 27 | 27 | 34 | 29 | < 25 | 25 | < 5000 | 5,000 |
| **Semi volatiles By SW8270D** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anthracene | 120-12-7 | ug/Kg | 100,000 | 100,000 | 100,000 | 500,000 | 640 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | < 260 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | < 250 | 250 | < 260 | 260 | | | | |
| Benz(a)anthracene | 56-55-3 | ug/Kg | 1,000 | 1,000 | 1,000 | 1,000 | 2,600 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 840 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 1,200 | 250 | < 260 | 260 | | | | |
| Benzo(a)pyrene | 50-32-8 | ug/Kg | 1,000 | 1,000 | 1,000 | 1,000 | 2,400 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 950 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 1,200 | 250 | < 260 | 260 | | | | |
| Benzo(b)fluoranthene | 205-99-2 | ug/Kg | 1,000 | 1,000 | 1,000 | 1,700 | 2,200 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 790 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 1,100 | 250 | < 260 | 260 | | | | |
| Benzo(ghi)perylene | 191-24-2 | ug/Kg | 100,000 | 100,000 | 100,000 | 500,000 | 1,400 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 600 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 680 | 250 | < 260 | 260 | | | | |
| Benzo(k)fluoranthene | 207-08-9 | ug/Kg | 800 | 1,000 | 1,700 | 1,700 | 1,900 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 710 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 980 | 250 | < 260 | 260 | | | | |
| Chrysene | 218-01-9 | ug/Kg | 1,000 | 1,000 | 1,000 | 1,000 | 2,500 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 810 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 1,200 | 250 | < 260 | 260 | | | | |
| Dibenz(a,h)anthracene | 53-70-3 | ug/Kg | 330 | 330 | 330 | 560 | 370 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | < 260 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | < 250 | 250 | < 260 | 260 | | | | |
| Fluoranthene | 206-44-0 | ug/Kg | 100,000 | 100,000 | 100,000 | 500,000 | 5,100 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 1,400 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 2,000 | 250 | < 260 | 260 | | | | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/Kg | 500 | 500 | 500 | 5,600 | 1,600 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 640 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 750 | 250 | < 260 | 260 | | | | |
| Phenanthrene | 85-01-8 | ug/Kg | 100,000 | 100,000 | 100,000 | 500,000 | 2,900 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 540 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 580 | 250 | < 260 | 260 | | | | |
| Pyrene | 129-00-0 | ug/Kg | 100,000 | 100,000 | 100,000 | 500,000 | 4,100 | 280 | < 260 | 260 | < 280 | 280 | < 270 | 270 | 1,300 | 260 | < 260 | 260 | < 270 | 270 | < 250 | 250 | 1,700 | 250 | < 260 | 260 | | | | |

NOTES & KEY

| | |
|---|---|
| Result Detected | |
| Detection above Unrestricted Use Criteria | |
| Detection above Residential Use Criteria | |
| Detection above Commercial/Industrial Use Criteria | |
| Trivalent chromium criteria utilized for total chromium | * |
| Criteria Not established | NE |
| Blank Cell analyses not performed | |
| Not detected above laboratory reporting limits | ND |

PHOENIX
Environmental Laboratories, Inc.

**Thursday, August 06, 2020**

**Attn: Jason Fernet**
**SLR International Corporatio**
**99 Realty Drive**
**Cheshire, CT 06410**

**Project ID:** 123-131 PEARL STREET DEVEOLPMENT
**SDG ID:** GCG38945
**Sample ID#s:** CG38945 - CG38956

**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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.**

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

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

**Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.**

**Sincerely yours,**

**Phyllis Shiller**
**Laboratory Director**

**NELAC - #NY11301**
**CT Lab Registration #PH-0618**
**MA Lab Registration #M-CT007**
**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**
**UT Lab Registration #CT00007**
**VT Lab Registration #VT11301**

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

NY # 11301

# SDG Comments

August 06, 2020

SDG I.D.: GCG38945

Version 2: Per client request TCLP metals and Hex.Chromium were added on.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Sample Id Cross Reference

August 06, 2020

SDG I.D.: GCG38945

Project ID: 123-131 PEARL STREET DEVEOLPMENT

| Client Id | Lab Id | Matrix |
|---|---|---|
| MM-5 S-1 (0.5-2.5`) | CG38945 | SOIL |
| MM-5 S-4 (10-12`) | CG38946 | SOIL |
| MM-3 S-1 (0.5-2.5`) | CG38947 | SOIL |
| MM-3 S-1 (10-12`) | CG38948 | SOIL |
| MM-1 S-2 (3-5`) | CG38949 | SOIL |
| MM-1 S-4 (10-12`) | CG38950 | SOIL |
| MM-2 S-2 (3-5`) | CG38951 | SOIL |
| MM-2 S-4 (10-12`) | CG38952 | SOIL |
| MM-4 S-3 (1-3`) | CG38953 | SOIL |
| MM-4 S-3 (5-7.5`) | CG38954 | SOIL |
| TRIP BLANK LL | CG38955 | SOIL |
| TRIP BLANK HL | CG38956 | SOIL |

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 8:45 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | 48 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38945

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-1 (0.5-2.5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 23.9 | 0.73 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 300 | 0.37 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 2.21 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 36.7 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | 1.50 | 0.08 | mg/Kg | 5 | 07/23/20 | RS | SW7471B |
| Lead | 743 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.5 | 1.5 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| TCLP Lead | 0.28 | 0.10 | mg/L | 1 | 08/03/20 | CPP | SW846 1311/6010 |
| TCLP Metals Digestion | Completed | | | | 08/01/20 | VT/VT | SW3010A |
| Percent Solid | 82 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/23/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| TCLP Extraction for Metals | Completed | | | | 07/31/20 | VT | SW1311 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.39 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-1 (0.5-2.5`)

Phoenix I.D.: CG38945

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % DCBP | 86 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| % DCBP (Confirmation) | 84 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| % TCMX | 82 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| % TCMX (Confirmation) | 80 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-1 (0.5-2.5`)

Phoenix I.D.: CG38945

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Ethylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Hexachlorobutadiene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Isopropylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 5.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 85 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 91 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 97 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38945
Client ID: MM-5 S-1 (0.5-2.5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 2-Methylphenol (o-cresol) | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 640 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | 640 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | 2600 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | 2400 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 2200 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | 1400 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 1900 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 800 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | 2500 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 370 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | 5100 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 1600 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-1 (0.5-2.5`)

Phoenix I.D.: CG38945

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodi-n-propylamine | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| N-Nitrosodiphenylamine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pentachloronitrobenzene | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pentachlorophenol | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | 2900 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | 4100 | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 88 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 73 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 64 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 68 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 74 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 86 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

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

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 9:30 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38946

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-4 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 1.12 | 0.72 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 105 | 0.36 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 1.34 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 25.6 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | < 0.03 | 0.03 | mg/Kg | 2 | 07/23/20 | RS | SW7471B |
| Lead | 4.21 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.4 | 1.4 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Percent Solid | 89 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/23/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 92 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % DCBP (Confirmation) | 85 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % TCMX | 79 | | % | 10 | 07/23/20 | SC | 30 - 150 % |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-4 (10-12`)

Phoenix I.D.: CG38946

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % TCMX (Confirmation) | 78 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 41 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 41 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 41 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 17 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dichlorodifluoromethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Ethylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Hexachlorobutadiene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-4 (10-12`)

Phoenix I.D.: CG38946

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 41 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 17 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 17 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 17 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 17 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 8.3 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 97 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 93 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38946
Client ID: MM-5 S-4 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 580 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 730 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-5 S-4 (10-12`)

Phoenix I.D.: CG38946

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 75 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 65 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 58 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 57 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 62 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 90 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

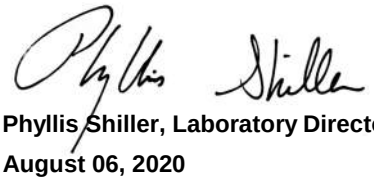
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed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

## Comments:

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

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 12:00 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38947

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-3 S-1 (0.5-2.5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 4.16 | 0.73 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 120 | 0.36 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 2.00 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 35.7 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | < 0.03 | 0.03 | mg/Kg | 2 | 07/23/20 | RS | SW7471B |
| Lead | 11.9 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.5 | 1.5 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Percent Solid | 83 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/23/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.4 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 86 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % DCBP (Confirmation) | 89 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % TCMX | 81 | | % | 10 | 07/23/20 | SC | 30 - 150 % |

**Ver 2**

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-3 S-1 (0.5-2.5`)

Phoenix I.D.: CG38947

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % TCMX (Confirmation) | 81 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dichlorodifluoromethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Ethylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Hexachlorobutadiene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 94 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 91 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-3 S-1 (0.5-2.5`)

Phoenix I.D.: CG38947

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol (m&p-cresol) | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 640 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 800 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodiphenylamine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Pentachloronitrobenzene | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-3 S-1 (0.5-2.5`)

Phoenix I.D.: CG38947

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | ND | 280 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 400 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 85 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 68 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 56 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 55 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 61 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 90 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

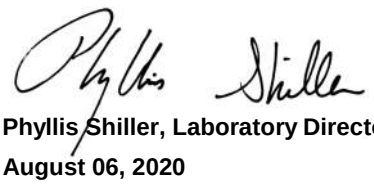
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed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

## Comments:

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

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 13:00 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38948

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-3 S-1 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 1.25 | 0.74 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 103 | 0.37 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 1.36 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 26.9 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | < 0.03 | 0.03 | mg/Kg | 2 | 07/23/20 | RS | SW7471B |
| Lead | 5.63 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.5 | 1.5 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Percent Solid | 86 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/23/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 97 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % DCBP (Confirmation) | 99 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % TCMX | 91 | | % | 10 | 07/23/20 | SC | 30 - 150 % |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-3 S-1 (10-12`)

Phoenix I.D.: CG38948

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % TCMX (Confirmation) | 89 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 30 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 30 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 30 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dichlorodifluoromethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Ethylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Hexachlorobutadiene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 30 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 12 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 6.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 98 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 91 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38948
Client ID: MM-3 S-1 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol (m&p-cresol) | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 610 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 760 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodiphenylamine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Pentachloronitrobenzene | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-3 S-1 (10-12`)

Phoenix I.D.: CG38948

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 71 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 71 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 67 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 66 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 71 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 87 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

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

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 15:30 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38949

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-1 S-2 (3-5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.34 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 2.88 | 0.68 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 132 | 0.34 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 1.49 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 26.4 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | 0.43 | 0.03 | mg/Kg | 2 | 07/24/20 | MGH | SW7471B |
| Lead | 88.6 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.4 | 1.4 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Percent Solid | 88 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/24/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 86 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % DCBP (Confirmation) | 87 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % TCMX | 97 | | % | 10 | 07/23/20 | SC | 30 - 150 % |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-1 S-2 (3-5`)

Phoenix I.D.: CG38949

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % TCMX (Confirmation) | 93 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 45 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 45 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 45 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 18 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dichlorodifluoromethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Ethylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Hexachlorobutadiene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-1 S-2 (3-5`)

Phoenix I.D.: CG38949

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 45 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 18 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 18 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 18 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 18 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 8.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 90 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 92 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38949
Client ID: MM-1 S-2 (3-5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol (m&p-cresol) | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 590 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | 840 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | 950 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 790 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | 600 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 710 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 740 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | 810 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | 1400 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 640 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodiphenylamine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Pentachloronitrobenzene | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-1 S-2 (3-5`)

Phoenix I.D.: CG38949

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | 540 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | 1300 | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 59 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 51 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 38 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 42 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 45 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 60 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

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

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 9:30 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | 48 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38950

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-1 S-4 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Silver | < 0.34 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Arsenic | 0.98 | 0.67 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Barium | 357 | 0.34 | mg/Kg | 1 | 07/23/20 | TH | SW6010D | |
| Cadmium | 2.38 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Chromium | 54.0 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Mercury | < 0.03 | 0.03 | mg/Kg | 2 | 07/24/20 | MGH | SW7471B | |
| Lead | 4.46 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Selenium | < 1.3 | 1.3 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Trivalent Chromium | 54.0 | 0.34 | mg/kg | 1 | 08/03/20 | | CALC 6010-7196 | |
| Percent Solid | 91 | | % | | 07/22/20 | HB | SW846-%Solid | |
| **Chromium, Hex. (SW3060 digestion)** | < 0.42 | 0.42 | mg/Kg | 1 | 08/03/20 | ARG/BJA | SW7196A | |
| pH at 25C - Soil | 6.72 | 1.00 | pH Units | 1 | 07/31/20 21:11 | AP | SW846 9045 | 1 |
| Redox Potential | 112 | | mV | 1 | 07/31/20 | AP | SM2580B-09 | 1 |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A | |
| Mercury Digestion | Completed | | | | 07/24/20 | VT/VT | SW7471B | |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 | |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B | |
| **Polychlorinated Biphenyls** | | | | | | | | |
| PCB-1016 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1221 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1232 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1242 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1248 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1254 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1260 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1262 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |
| PCB-1268 | ND | 0.36 | mg/kg | 10 | 07/24/20 | SC | SW8082A | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-1 S-4 (10-12`)

Phoenix I.D.: CG38950

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 88 | | % | 10 | 07/24/20 | SC | 30 - 150 % | |
| % DCBP (Confirmation) | 82 | | % | 10 | 07/24/20 | SC | 30 - 150 % | |
| % TCMX | 93 | | % | 10 | 07/24/20 | SC | 30 - 150 % | |
| % TCMX (Confirmation) | 92 | | % | 10 | 07/24/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 37 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 37 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 37 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 15 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38950
Client ID: MM-1 S-4 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Dibromomethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Ethylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Hexachlorobutadiene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Isopropylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 37 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 15 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 15 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 15 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 15 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 7.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 97 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 93 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38950
Client ID: MM-1 S-4 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 590 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 730 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-1 S-4 (10-12`)

Phoenix I.D.: CG38950

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodimethylamine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| N-Nitrosodiphenylamine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pentachloronitrobenzene | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pentachlorophenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 74 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 65 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 58 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 58 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 62 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 86 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

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

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 11:30 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38951

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-2 S-2 (3-5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 2.14 | 0.74 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 104 | 0.37 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 1.63 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 30.1 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | < 0.03 | 0.03 | mg/Kg | 2 | 07/24/20 | MGH | SW7471B |
| Lead | 7.46 | 0.37 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.5 | 1.5 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Percent Solid | 86 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/24/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.38 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 92 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % DCBP (Confirmation) | 91 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % TCMX | 82 | | % | 10 | 07/23/20 | SC | 30 - 150 % |

**Ver 2**

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-2 S-2 (3-5`)

Phoenix I.D.: CG38951

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % TCMX (Confirmation) | 81 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 32 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 32 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 32 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 13 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dichlorodifluoromethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Ethylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Hexachlorobutadiene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 32 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 13 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 13 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 13 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 13 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 6.4 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 95 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 92 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38951
Client ID: MM-2 S-2 (3-5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol (m&p-cresol) | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 610 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 770 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodiphenylamine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Pentachloronitrobenzene | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-2 S-2 (3-5`)

Phoenix I.D.: CG38951

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | ND | 270 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 380 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 82 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 73 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 61 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 64 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 70 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 82 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

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

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 12:00 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38952

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-2 S-4 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.34 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 1.23 | 0.67 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 83.7 | 0.34 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 1.27 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 19.4 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | < 0.03 | 0.03 | mg/Kg | 1 | 07/24/20 | MGH | SW7471B |
| Lead | 5.95 | 0.34 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.3 | 1.3 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Percent Solid | 94 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/24/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.35 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 95 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % DCBP (Confirmation) | 94 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % TCMX | 94 | | % | 10 | 07/23/20 | SC | 30 - 150 % |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-2 S-4 (10-12`)

Phoenix I.D.: CG38952

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % TCMX (Confirmation) | 88 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 24 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 24 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 24 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 9.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dichlorodifluoromethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Ethylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Hexachlorobutadiene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-2 S-4 (10-12`)

Phoenix I.D.: CG38952

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 24 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 9.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 9.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 9.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 9.8 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 4.9 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 97 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 90 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38952
Client ID: MM-2 S-4 (10-12`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol (m&p-cresol) | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 560 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 710 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodiphenylamine | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Pentachloronitrobenzene | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-2 S-4 (10-12`)

Phoenix I.D.: CG38952

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 350 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 70 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 71 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 64 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 65 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 70 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 88 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

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

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 13:20 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | 48 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38953

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-4 S-3 (1-3`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Arsenic | 4.92 | 0.72 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Barium | 209 | 0.36 | mg/Kg | 1 | 07/23/20 | TH | SW6010D | |
| Cadmium | 2.24 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Chromium | 45.3 | 0.36 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| Mercury | 0.65 | 0.03 | mg/Kg | 1 | 07/24/20 | MGH | SW7471B | |
| Lead | 2370 | 36 | mg/Kg | 100 | 07/23/20 | TH | SW6010D | |
| Selenium | < 1.4 | 1.4 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D | |
| TCLP Lead | 0.18 | 0.10 | mg/L | 1 | 08/03/20 | CPP | SW846 1311/6010 | |
| TCLP Metals Digestion | Completed | | | | 08/01/20 | VT/VT | SW3010A | |
| Trivalent Chromium | 45.3 | 0.36 | mg/kg | 1 | 08/03/20 | | CALC 6010-7196 | |
| Percent Solid | 91 | | % | | 07/22/20 | HB | SW846-%Solid | |
| **Chromium, Hex. (SW3060 digestion)** | < 0.43 | 0.43 | mg/Kg | 1 | 08/03/20 | ARG/BJA | SW7196A | |
| pH at 25C - Soil | 7.75 | 1.00 | pH Units | 1 | 07/31/20 21:11 | AP | SW846 9045 | 1 |
| Redox Potential | 219 | | mV | 1 | 07/31/20 | AP | SM2580B-09 | 1 |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A | |
| Mercury Digestion | Completed | | | | 07/24/20 | VT/VT | SW7471B | |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 | |
| TCLP Extraction for Metals | Completed | | | | 07/31/20 | VT | SW1311 | |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B | |

## Polychlorinated Biphenyls

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A |

**Ver 2**

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-4 S-3 (1-3`)

Phoenix I.D.: CG38953

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A | |
| PCB-1262 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A | |
| PCB-1268 | ND | 0.37 | mg/kg | 10 | 07/23/20 | SC | SW8082A | |
| **QA/QC Surrogates** | | | | | | | | |
| % DCBP | 105 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| % DCBP (Confirmation) | 102 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| % TCMX | 112 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| % TCMX (Confirmation) | 106 | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 27 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | ND | 27 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

**Ver 2**

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38953
Client ID: MM-4 S-3 (1-3`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Dibromochloromethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Dibromomethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Ethylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 5.5 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 84 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 91 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 96 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38953
Client ID: MM-4 S-3 (1-3`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 580 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | 1200 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | 1200 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 1100 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | 680 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 980 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 730 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | 1200 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | 2000 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 750 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-4 S-3 (1-3`)

Phoenix I.D.: CG38953

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Isophorone | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Naphthalene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Nitrobenzene | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| N-Nitrosodimethylamine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| N-Nitrosodi-n-propylamine | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| N-Nitrosodiphenylamine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pentachloronitrobenzene | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pentachlorophenol | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | 580 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | 1700 | 250 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 360 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 84 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 73 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 70 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 69 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 74 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 85 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

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

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

TCLP Non-Volatile Extraction:
Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

Hexavalent Chromium:
This sample is in a reducing state.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

**Ver 2**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | 13:45 |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38954

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-4 S-3 (5-7.5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Silver | < 0.40 | 0.40 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Arsenic | 1.59 | 0.79 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Barium | 85.5 | 0.40 | mg/Kg | 1 | 07/23/20 | TH | SW6010D |
| Cadmium | 1.22 | 0.40 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Chromium | 19.1 | 0.40 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Mercury | < 0.03 | 0.03 | mg/Kg | 1 | 07/24/20 | MGH | SW7471B |
| Lead | 7.02 | 0.40 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Selenium | < 1.6 | 1.6 | mg/Kg | 1 | 07/23/20 | CPP | SW6010D |
| Percent Solid | 89 | | % | | 07/22/20 | HB | SW846-%Solid |
| Soil Extraction for PCB | Completed | | | | 07/22/20 | /E | SW3545A |
| Mercury Digestion | Completed | | | | 07/24/20 | VT/VT | SW7471B |
| Soil Extraction for SVOA | Completed | | | | 07/22/20 | R/A | SW3546 |
| Total Metals Digest | Completed | | | | 07/22/20 | S/AG/BF | SW3050B |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1221 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1232 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1242 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1248 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1254 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1260 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1262 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| PCB-1268 | ND | 0.36 | mg/kg | 10 | 07/23/20 | SC | SW8082A |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 99 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % DCBP (Confirmation) | 99 | | % | 10 | 07/23/20 | SC | 30 - 150 % |
| % TCMX | 103 | | % | 10 | 07/23/20 | SC | 30 - 150 % |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-4 S-3 (5-7.5`)

Phoenix I.D.: CG38954

| Parameter | Result | | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|---|
| % TCMX (Confirmation) | 98 | | | % | 10 | 07/23/20 | SC | 30 - 150 % | |
| **Volatiles** | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acetone | 34 | S | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Acrylonitrile | ND | | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Benzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromobenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromochloromethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromodichloromethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromoform | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Bromomethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon Disulfide | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Carbon tetrachloride | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chlorobenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloroform | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Chloromethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,2-Dichloroethene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| cis-1,3-Dichloropropene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromochloromethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dibromomethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Dichlorodifluoromethane | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Ethylbenzene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| Hexachlorobutadiene | ND | | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-4 S-3 (5-7.5`)

Phoenix I.D.: CG38954

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Isopropylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 29 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 5.7 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 97 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 96 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Toluene-d8 | 104 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,2-Diphenylhydrazine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrophenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Chlorophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitroaniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 2-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Phoenix I.D.: CG38954
Client ID: MM-4 S-3 (5-7.5`)

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| 3&4-Methylphenol (m&p-cresol) | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 3-Nitroaniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chloroaniline | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitroaniline | ND | 590 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| 4-Nitrophenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acenaphthylene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Acetophenone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Aniline | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benz(a)anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzidine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(a)pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(b)fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(ghi)perylene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzo(k)fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzoic acid | ND | 740 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroethyl)ether | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Carbazole | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Chrysene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dibenzofuran | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Diethyl phthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Dimethylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-butylphthalate | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluoranthene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Fluorene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Hexachloroethane | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Isophorone | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Naphthalene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Nitrobenzene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodimethylamine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| N-Nitrosodiphenylamine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |
| Pentachloronitrobenzene | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: MM-4 S-3 (5-7.5`)

Phoenix I.D.: CG38954

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenanthrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Phenol | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyrene | ND | 260 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| Pyridine | ND | 370 | ug/Kg | 1 | 07/23/20 | AW | SW8270D | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 79 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorobiphenyl | 58 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % 2-Fluorophenol | 45 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Nitrobenzene-d5 | 43 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Phenol-d5 | 52 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| % Terphenyl-d14 | 81 | | % | 1 | 07/23/20 | AW | 30 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

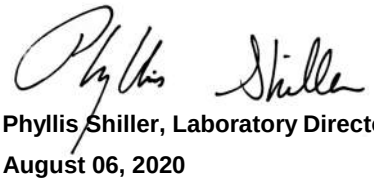
## Comments:

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

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

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38955

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: TRIP BLANK LL

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 25 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 25 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C | |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: TRIP BLANK LL

Phoenix I.D.: CG38955

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Acetone | ND | 25 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Acrylonitrile | ND | 10 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Benzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Bromobenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Bromochloromethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Bromodichloromethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Bromoform | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Bromomethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Carbon Disulfide | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Carbon tetrachloride | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Chlorobenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Chloroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Chloroform | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Chloromethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Dibromochloromethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Dibromomethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Ethylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Hexachlorobutadiene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Isopropylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 25 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 10 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 5.0 | ug/Kg | 1 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene | 98 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane | 90 | | % | 1 | 07/23/20 | JLI | 70 - 130 % |

**Ver 2**

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: TRIP BLANK LL

Phoenix I.D.: CG38955

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % Toluene-d8 | 99 | | % | 1 | 07/23/20 | JLI | 70 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 06, 2020

FOR: Attn: Jason Fernet
SLR International Corporatio
99 Realty Drive
Cheshire, CT 06410

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | RH | 07/21/20 | |
| Location Code: | SLR-CHESHIRE | Received by: | B | 07/22/20 | 16:41 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCG38945
Phoenix ID: CG38956

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: TRIP BLANK HL

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,1,1-Trichloroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,1,2-Trichloroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloroethene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,1-Dichloropropene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2,3-Trichloropropane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2,4-Trimethylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dibromoethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichlorobenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,2-Dichloropropane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,3,5-Trimethylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichlorobenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,3-Dichloropropane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 1,4-Dichlorobenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 2,2-Dichloropropane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 2-Chlorotoluene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 2-Hexanone | ND | 1300 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 2-Isopropyltoluene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | 1 |
| 4-Chlorotoluene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |
| 4-Methyl-2-pentanone | ND | 1300 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C | |

**Ver 2**

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: TRIP BLANK HL

Phoenix I.D.: CG38956

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| Acetone | ND | 5000 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Acrylonitrile | ND | 500 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Benzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Bromobenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Bromochloromethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Bromodichloromethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Bromoform | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Bromomethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Carbon Disulfide | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Carbon tetrachloride | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Chlorobenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Chloroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Chloroform | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Chloromethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| cis-1,2-Dichloroethene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| cis-1,3-Dichloropropene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Dibromochloromethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Dibromomethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Ethylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Hexachlorobutadiene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Isopropylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| m&p-Xylene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Methyl Ethyl Ketone | ND | 3000 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Methylene chloride | ND | 500 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Naphthalene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| n-Butylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| n-Propylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| o-Xylene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| p-Isopropyltoluene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| sec-Butylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Styrene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| tert-Butylbenzene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Tetrachloroethene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Tetrahydrofuran (THF) | ND | 500 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Toluene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Total Xylenes | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| trans-1,2-Dichloroethene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| trans-1,3-Dichloropropene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| trans-1,4-dichloro-2-butene | ND | 500 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Trichloroethene | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Trichlorofluoromethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Trichlorotrifluoroethane | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| Vinyl chloride | ND | 250 | ug/Kg | 50 | 07/23/20 | JLI | SW8260C |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 (50x) | 99 | | % | 50 | 07/23/20 | JLI | 70 - 130 % |
| % Bromofluorobenzene (50x) | 97 | | % | 50 | 07/23/20 | JLI | 70 - 130 % |
| % Dibromofluoromethane (50x) | 88 | | % | 50 | 07/23/20 | JLI | 70 - 130 % |

Project ID: 123-131 PEARL STREET DEVEOLPMENT
Client ID: TRIP BLANK HL

Phoenix I.D.: CG38956

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | | |
|---|---|---|---|---|---|---|---|---|
| % Toluene-d8 (50x) | 99 | | % | 50 | 07/23/20 | JLI | 70 - 130 % | |
| Field Extraction | Completed | | | | 07/21/20 | | SW5035A | 1 |

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

## Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

NY # 11301

# QA/QC Report

August 06, 2020

## QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 539795 (mg/kg), QC Sample No: CG44973 40X (CG38950, CG38953) | | | | | | | | | | | | | | |
| **Chromium, Hexavalent - Soil** | | | | | | | | | | | | | | |
| Chromium, Hexavalent | BRL | 0.40 | <0.44 | <0.43 | NC | 103 | | | | | | 85 - 115 | 30 | |
| Chromium, Hexavalent (Ins) | | | | | | 91.8 | | | 99.8 | | | 85 - 115 | 30 | |
| Chromium, Hexavalent (Sol) | | | | | | 91.6 | | | 67.9 | | | 85 - 115 | 30 | m |
| Comment: | | | | | | | | | | | | | | |
| The QC sample is in a reducing state, acceptance criteria are not applicable for samples in a reducing state. The soluble spike was analyzed twice with similar recoveries. | | | | | | | | | | | | | | |
| QA/QC Batch 538483 (mg/kg), QC Sample No: CG37740 2X (CG38945, CG38946, CG38947, CG38948) | | | | | | | | | | | | | | |
| Mercury - Soil | BRL | 0.03 | 1.70 | 6.65 | 119 | 115 | 112 | 2.6 | NC | NC | NC | 70 - 130 | 30 | r |
| Comment: | | | | | | | | | | | | | | |
| Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%. | | | | | | | | | | | | | | |
| QA/QC Batch 538679 (mg/kg), QC Sample No: CG38950 2X (CG38949, CG38950, CG38951) | | | | | | | | | | | | | | |
| Mercury - Soil | BRL | 0.03 | <0.03 | <0.03 | NC | 108 | 111 | 2.7 | 84.3 | 82.0 | 2.8 | 70 - 130 | 30 | |
| Comment: | | | | | | | | | | | | | | |
| Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%. | | | | | | | | | | | | | | |
| QA/QC Batch 538678 (mg/kg), QC Sample No: CG40007 (CG38952, CG38953, CG38954) | | | | | | | | | | | | | | |
| Mercury - Soil | BRL | 0.02 | <0.03 | <0.03 | NC | 102 | 96.3 | 5.7 | 91.7 | 113 | 20.8 | 70 - 130 | 30 | |
| Comment: | | | | | | | | | | | | | | |
| Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%. | | | | | | | | | | | | | | |
| QA/QC Batch 538426 (mg/kg), QC Sample No: CG38945 (CG38945, CG38946, CG38947, CG38948, CG38949, CG38950, CG38951, CG38952, CG38953, CG38954) | | | | | | | | | | | | | | |
| **ICP Metals - Soil** | | | | | | | | | | | | | | |
| Arsenic | BRL | 0.67 | 23.9 | 14.8 | 47.0 | 95.0 | 103 | 8.1 | 93.0 | | | 75 - 125 | 35 | r |
| Barium | BRL | 0.33 | 300 | 332 | 10.1 | 96.5 | 108 | 11.2 | 114 | | | 75 - 125 | 35 | |
| Cadmium | BRL | 0.33 | 2.21 | 2.13 | 3.70 | 103 | 98.8 | 4.2 | 102 | | | 75 - 125 | 35 | |
| Chromium | BRL | 0.33 | 36.7 | 35.9 | 2.20 | 95.6 | 103 | 7.5 | 102 | | | 75 - 125 | 35 | |
| Lead | BRL | 0.33 | 743 | 692 | 7.10 | 94.6 | 102 | 7.5 | 121 | | | 75 - 125 | 35 | |
| Selenium | BRL | 1.3 | <1.5 | <1.5 | NC | 93.6 | 98.9 | 5.5 | 95.3 | | | 75 - 125 | 35 | |
| Silver | BRL | 0.33 | <0.37 | <0.36 | NC | 85.7 | 93.8 | 9.0 | 96.1 | | | 75 - 125 | 35 | |
| Comment: | | | | | | | | | | | | | | |
| Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%. | | | | | | | | | | | | | | |
| QA/QC Batch 539741 (mg/L), QC Sample No: CG44462 (CG38945, CG38953) | | | | | | | | | | | | | | |
| **ICP Metals - TCLP Extraction** | | | | | | | | | | | | | | |
| Lead | BRL | 0.010 | 0.347 | 0.344 | 0.90 | 83.6 | 79.0 | 5.7 | 63.7 | | | 80 - 120 | 20 | l,m |
| Comment: | | | | | | | | | | | | | | |
| Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%. | | | | | | | | | | | | | | |

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.

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

NY # 11301

# QA/QC Report

August 06, 2020

## QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 539722 (PH), QC Sample No: CG38950 (CG38950, CG38953) | | | | | | | | | | | | | |
| pH at 25C - Soil | | | 6.72 | 6.82 | 1.50 | 100 | | | | | | 85 - 115 | 20 |

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

NY # 11301

# QA/QC Report

August 06, 2020

## QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 538416 (ug/Kg), QC Sample No: CG39017 2X (CG38945, CG38946, CG38947, CG38948, CG38949, CG38950, CG38951, CG38952, CG38953, CG38954) | | | | | | | | | | | |
| **Polychlorinated Biphenyls - Soil** | | | | | | | | | | | |
| PCB-1016 | ND | 33 | 69 | 85 | 20.8 | 57 | 57 | 0.0 | 40 - 140 | 30 | |
| PCB-1221 | ND | 33 | | | | | | | 40 - 140 | 30 | |
| PCB-1232 | ND | 33 | | | | | | | 40 - 140 | 30 | |
| PCB-1242 | ND | 33 | | | | | | | 40 - 140 | 30 | |
| PCB-1248 | ND | 33 | | | | | | | 40 - 140 | 30 | |
| PCB-1254 | ND | 33 | | | | | | | 40 - 140 | 30 | |
| PCB-1260 | ND | 33 | 72 | 89 | 21.1 | 59 | 56 | 5.2 | 40 - 140 | 30 | |
| PCB-1262 | ND | 33 | | | | | | | 40 - 140 | 30 | |
| PCB-1268 | ND | 33 | | | | | | | 40 - 140 | 30 | |
| % DCBP (Surrogate Rec) | 74 | % | 79 | 98 | 21.5 | 62 | 60 | 3.3 | 30 - 150 | 30 | |
| % DCBP (Surrogate Rec) (Confirm | 77 | % | 77 | 98 | 24.0 | 59 | 57 | 3.4 | 30 - 150 | 30 | |
| % TCMX (Surrogate Rec) | 66 | % | 67 | 87 | 26.0 | 56 | 57 | 1.8 | 30 - 150 | 30 | |
| % TCMX (Surrogate Rec) (Confirm | 66 | % | 67 | 87 | 26.0 | 56 | 56 | 0.0 | 30 - 150 | 30 | |
| QA/QC Batch 538422 (ug/kg), QC Sample No: CG38952 (CG38945, CG38946, CG38947, CG38948, CG38949, CG38950, CG38951, CG38952, CG38953, CG38954) | | | | | | | | | | | |
| **Semivolatiles - Soil** | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 230 | 73 | 74 | 1.4 | 70 | 62 | 12.1 | 40 - 140 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 230 | 71 | 69 | 2.9 | 67 | 60 | 11.0 | 40 - 140 | 30 | |
| 1,2-Dichlorobenzene | ND | 180 | 64 | 60 | 6.5 | 58 | 53 | 9.0 | 40 - 140 | 30 | |
| 1,2-Diphenylhydrazine | ND | 230 | 79 | 82 | 3.7 | 74 | 67 | 9.9 | 40 - 140 | 30 | |
| 1,3-Dichlorobenzene | ND | 230 | 62 | 58 | 6.7 | 57 | 52 | 9.2 | 40 - 140 | 30 | |
| 1,4-Dichlorobenzene | ND | 230 | 63 | 60 | 4.9 | 57 | 52 | 9.2 | 40 - 140 | 30 | |
| 2,4,5-Trichlorophenol | ND | 230 | 91 | 95 | 4.3 | 83 | 77 | 7.5 | 40 - 140 | 30 | |
| 2,4,6-Trichlorophenol | ND | 130 | 89 | 93 | 4.4 | 79 | 72 | 9.3 | 30 - 130 | 30 | |
| 2,4-Dichlorophenol | ND | 130 | 85 | 88 | 3.5 | 78 | 70 | 10.8 | 30 - 130 | 30 | |
| 2,4-Dimethylphenol | ND | 230 | 86 | 88 | 2.3 | 47 | 44 | 6.6 | 30 - 130 | 30 | |
| 2,4-Dinitrophenol | ND | 230 | 22 | 34 | 42.9 | 70 | 56 | 22.2 | 30 - 130 | 30 | l,r |
| 2,4-Dinitrotoluene | ND | 130 | 96 | 99 | 3.1 | 89 | 81 | 9.4 | 30 - 130 | 30 | |
| 2,6-Dinitrotoluene | ND | 130 | 91 | 95 | 4.3 | 85 | 77 | 9.9 | 40 - 140 | 30 | |
| 2-Chloronaphthalene | ND | 230 | 79 | 81 | 2.5 | 73 | 67 | 8.6 | 40 - 140 | 30 | |
| 2-Chlorophenol | ND | 230 | 81 | 79 | 2.5 | 73 | 66 | 10.1 | 30 - 130 | 30 | |
| 2-Methylnaphthalene | ND | 230 | 73 | 74 | 1.4 | 71 | 63 | 11.9 | 40 - 140 | 30 | |
| 2-Methylphenol (o-cresol) | ND | 230 | 90 | 90 | 0.0 | 72 | 67 | 7.2 | 40 - 140 | 30 | |
| 2-Nitroaniline | ND | 330 | 170 | 174 | 2.3 | 142 | 132 | 7.3 | 40 - 140 | 30 | l,m |
| 2-Nitrophenol | ND | 230 | 80 | 80 | 0.0 | 75 | 66 | 12.8 | 40 - 140 | 30 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 230 | 89 | 90 | 1.1 | 70 | 65 | 7.4 | 30 - 130 | 30 | |
| 3,3'-Dichlorobenzidine | ND | 130 | 92 | 97 | 5.3 | 58 | 52 | 10.9 | 40 - 140 | 30 | |
| 3-Nitroaniline | ND | 330 | 107 | 110 | 2.8 | 90 | 82 | 9.3 | 40 - 140 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 230 | 43 | 53 | 20.8 | 83 | 69 | 18.4 | 30 - 130 | 30 | |
| 4-Bromophenyl phenyl ether | ND | 230 | 85 | 91 | 6.8 | 81 | 74 | 9.0 | 40 - 140 | 30 | |

# QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | ND | 230 | 91 | 95 | 4.3 | 82 | 75 | 8.9 | 30 - 130 | 30 | |
| 4-Chloroaniline | ND | 230 | 79 | 81 | 2.5 | 72 | 66 | 8.7 | 40 - 140 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 230 | 82 | 85 | 3.6 | 77 | 71 | 8.1 | 40 - 140 | 30 | |
| 4-Nitroaniline | ND | 230 | 88 | 93 | 5.5 | 83 | 75 | 10.1 | 40 - 140 | 30 | |
| 4-Nitrophenol | ND | 230 | 84 | 88 | 4.7 | 79 | 74 | 6.5 | 30 - 130 | 30 | |
| Acenaphthene | ND | 230 | 79 | 82 | 3.7 | 73 | 68 | 7.1 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 130 | 77 | 79 | 2.6 | 70 | 65 | 7.4 | 40 - 140 | 30 | |
| Acetophenone | ND | 230 | 71 | 69 | 2.9 | 64 | 58 | 9.8 | 40 - 140 | 30 | |
| Aniline | ND | 330 | 71 | 68 | 4.3 | 52 | 47 | 10.1 | 40 - 140 | 30 | |
| Anthracene | ND | 230 | 81 | 84 | 3.6 | 77 | 70 | 9.5 | 40 - 140 | 30 | |
| Benz(a)anthracene | ND | 230 | 87 | 91 | 4.5 | 82 | 75 | 8.9 | 40 - 140 | 30 | |
| Benzidine | ND | 330 | 71 | 71 | 0.0 | <10 | <10 | NC | 40 - 140 | 30 | m |
| Benzo(a)pyrene | ND | 130 | 90 | 95 | 5.4 | 85 | 77 | 9.9 | 40 - 140 | 30 | |
| Benzo(b)fluoranthene | ND | 160 | 107 | 112 | 4.6 | 98 | 90 | 8.5 | 40 - 140 | 30 | |
| Benzo(ghi)perylene | ND | 230 | 88 | 92 | 4.4 | 85 | 76 | 11.2 | 40 - 140 | 30 | |
| Benzo(k)fluoranthene | ND | 230 | 66 | 70 | 5.9 | 65 | 58 | 11.4 | 40 - 140 | 30 | |
| Benzoic Acid | ND | 670 | 18 | 26 | 36.4 | 47 | 34 | 32.1 | 30 - 130 | 30 | l,r |
| Benzyl butyl phthalate | ND | 230 | 92 | 98 | 6.3 | 88 | 79 | 10.8 | 40 - 140 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 230 | 73 | 74 | 1.4 | 70 | 63 | 10.5 | 40 - 140 | 30 | |
| Bis(2-chloroethyl)ether | ND | 130 | 62 | 59 | 5.0 | 57 | 52 | 9.2 | 40 - 140 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 230 | 53 | 52 | 1.9 | 50 | 45 | 10.5 | 40 - 140 | 30 | |
| Bis(2-ethylhexyl)phthalate | ND | 230 | 92 | 99 | 7.3 | 90 | 81 | 10.5 | 40 - 140 | 30 | |
| Carbazole | ND | 230 | 85 | 89 | 4.6 | 80 | 74 | 7.8 | 40 - 140 | 30 | |
| Chrysene | ND | 230 | 87 | 91 | 4.5 | 82 | 74 | 10.3 | 40 - 140 | 30 | |
| Dibenz(a,h)anthracene | ND | 130 | 89 | 95 | 6.5 | 85 | 78 | 8.6 | 40 - 140 | 30 | |
| Dibenzofuran | ND | 230 | 80 | 84 | 4.9 | 75 | 69 | 8.3 | 40 - 140 | 30 | |
| Diethyl phthalate | ND | 230 | 86 | 92 | 6.7 | 82 | 74 | 10.3 | 40 - 140 | 30 | |
| Dimethylphthalate | ND | 230 | 85 | 89 | 4.6 | 80 | 73 | 9.2 | 40 - 140 | 30 | |
| Di-n-butylphthalate | ND | 670 | 89 | 94 | 5.5 | 86 | 78 | 9.8 | 40 - 140 | 30 | |
| Di-n-octylphthalate | ND | 230 | 94 | 101 | 7.2 | 92 | 83 | 10.3 | 40 - 140 | 30 | |
| Fluoranthene | ND | 230 | 83 | 87 | 4.7 | 79 | 72 | 9.3 | 40 - 140 | 30 | |
| Fluorene | ND | 230 | 80 | 84 | 4.9 | 75 | 69 | 8.3 | 40 - 140 | 30 | |
| Hexachlorobenzene | ND | 130 | 83 | 88 | 5.8 | 81 | 72 | 11.8 | 40 - 140 | 30 | |
| Hexachlorobutadiene | ND | 230 | 69 | 69 | 0.0 | 67 | 60 | 11.0 | 40 - 140 | 30 | |
| Hexachlorocyclopentadiene | ND | 230 | 64 | 64 | 0.0 | 59 | 54 | 8.8 | 40 - 140 | 30 | |
| Hexachloroethane | ND | 130 | 62 | 61 | 1.6 | 58 | 53 | 9.0 | 40 - 140 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 230 | 87 | 92 | 5.6 | 83 | 75 | 10.1 | 40 - 140 | 30 | |
| Isophorone | ND | 130 | 68 | 69 | 1.5 | 63 | 58 | 8.3 | 40 - 140 | 30 | |
| Naphthalene | ND | 230 | 67 | 67 | 0.0 | 64 | 58 | 9.8 | 40 - 140 | 30 | |
| Nitrobenzene | ND | 130 | 74 | 73 | 1.4 | 68 | 63 | 7.6 | 40 - 140 | 30 | |
| N-Nitrosodimethylamine | ND | 230 | 45 | 44 | 2.2 | 41 | 37 | 10.3 | 40 - 140 | 30 | m |
| N-Nitrosodi-n-propylamine | ND | 130 | 76 | 77 | 1.3 | 69 | 62 | 10.7 | 40 - 140 | 30 | |
| N-Nitrosodiphenylamine | ND | 130 | 87 | 90 | 3.4 | 75 | 69 | 8.3 | 40 - 140 | 30 | |
| Pentachloronitrobenzene | ND | 230 | 84 | 90 | 6.9 | 82 | 76 | 7.6 | 40 - 140 | 30 | |
| Pentachlorophenol | ND | 230 | 61 | 62 | 1.6 | 44 | 39 | 12.0 | 30 - 130 | 30 | |
| Phenanthrene | ND | 130 | 82 | 87 | 5.9 | 77 | 71 | 8.1 | 40 - 140 | 30 | |
| Phenol | ND | 230 | 79 | 79 | 0.0 | 70 | 65 | 7.4 | 30 - 130 | 30 | |
| Pyrene | ND | 230 | 86 | 89 | 3.4 | 80 | 73 | 9.2 | 30 - 130 | 30 | |
| Pyridine | ND | 230 | 43 | 42 | 2.4 | 40 | 37 | 7.8 | 40 - 140 | 30 | m |
| % 2,4,6-Tribromophenol | 87 | % | 84 | 90 | 6.9 | 70 | 65 | 7.4 | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 72 | % | 72 | 75 | 4.1 | 67 | 61 | 9.4 | 30 - 130 | 30 | |
| % 2-Fluorophenol | 62 | % | 68 | 68 | 0.0 | 61 | 54 | 12.2 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 61 | % | 69 | 68 | 1.5 | 64 | 57 | 11.6 | 30 - 130 | 30 | |

| Parameter | Blank | Blk RL | | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % Phenol-d5 | 68 | % | | 75 | 75 | 0.0 | 66 | 61 | 7.9 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 94 | % | | 89 | 93 | 4.4 | 84 | 76 | 10.0 | 30 - 130 | 30 | |

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 538546 (ug/kg), QC Sample No: CG38785 (CG38945, CG38946, CG38947, CG38948, CG38949, CG38950, CG38951, CG38952, CG38955)

## Volatiles - Soil (Low Level)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | 104 | 104 | 0.0 | 84 | 101 | 18.4 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 5.0 | | 94 | 90 | 4.3 | 80 | 95 | 17.1 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.0 | | 111 | 108 | 2.7 | 80 | 106 | 28.0 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 5.0 | | 102 | 101 | 1.0 | 82 | 101 | 20.8 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 5.0 | | 93 | 90 | 3.3 | 80 | 95 | 17.1 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 5.0 | | 99 | 91 | 8.4 | 87 | 100 | 13.9 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 5.0 | | 100 | 94 | 6.2 | 88 | 101 | 13.8 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | 101 | 97 | 4.0 | 56 | 71 | 23.6 | 70 - 130 | 30 | m |
| 1,2,3-Trichloropropane | ND | 5.0 | | 104 | 102 | 1.9 | 80 | 111 | 32.5 | 70 - 130 | 30 | r |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | 97 | 92 | 5.3 | 57 | 75 | 27.3 | 70 - 130 | 30 | m |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | 100 | 96 | 4.1 | 76 | 95 | 22.2 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | | 107 | 107 | 0.0 | 73 | 102 | 33.1 | 70 - 130 | 30 | r |
| 1,2-Dibromoethane | ND | 5.0 | | 104 | 104 | 0.0 | 81 | 102 | 23.0 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 5.0 | | 99 | 97 | 2.0 | 71 | 92 | 25.8 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 5.0 | | 100 | 99 | 1.0 | 83 | 100 | 18.6 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 5.0 | | 101 | 99 | 2.0 | 87 | 102 | 15.9 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | 102 | 98 | 4.0 | 80 | 102 | 24.2 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 5.0 | | 100 | 97 | 3.0 | 74 | 96 | 25.9 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 5.0 | | 102 | 102 | 0.0 | 83 | 102 | 20.5 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 5.0 | | 97 | 94 | 3.1 | 72 | 94 | 26.5 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 5.0 | | 96 | 92 | 4.3 | 77 | 89 | 14.5 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 5.0 | | 101 | 96 | 5.1 | 79 | 102 | 25.4 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 25 | | 117 | 114 | 2.6 | 89 | 108 | 19.3 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 5.0 | | 106 | 104 | 1.9 | 82 | 105 | 24.6 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 5.0 | | 100 | 96 | 4.1 | 78 | 100 | 24.7 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 25 | | 109 | 106 | 2.8 | 85 | 103 | 19.1 | 70 - 130 | 30 | |
| Acetone | ND | 10 | | 139 | 132 | 5.2 | 111 | 146 | 27.2 | 70 - 130 | 30 | l,m |
| Acrylonitrile | ND | 5.0 | | 102 | 95 | 7.1 | 77 | 98 | 24.0 | 70 - 130 | 30 | |
| Benzene | ND | 1.0 | | 103 | 100 | 3.0 | 89 | 104 | 15.5 | 70 - 130 | 30 | |
| Bromobenzene | ND | 5.0 | | 102 | 99 | 3.0 | 79 | 102 | 25.4 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 5.0 | | 97 | 95 | 2.1 | 79 | 97 | 20.5 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 5.0 | | 101 | 100 | 1.0 | 84 | 99 | 16.4 | 70 - 130 | 30 | |
| Bromoform | ND | 5.0 | | 99 | 101 | 2.0 | 70 | 91 | 26.1 | 70 - 130 | 30 | |
| Bromomethane | ND | 5.0 | | 97 | 92 | 5.3 | 83 | 98 | 16.6 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 5.0 | | 94 | 90 | 4.3 | 79 | 92 | 15.2 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 5.0 | | 94 | 91 | 3.2 | 79 | 95 | 18.4 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 5.0 | | 102 | 100 | 2.0 | 84 | 101 | 18.4 | 70 - 130 | 30 | |
| Chloroethane | ND | 5.0 | | 97 | 89 | 8.6 | 80 | 106 | 28.0 | 70 - 130 | 30 | |
| Chloroform | ND | 5.0 | | 95 | 93 | 2.1 | 81 | 98 | 19.0 | 70 - 130 | 30 | |
| Chloromethane | ND | 5.0 | | 99 | 98 | 1.0 | 82 | 99 | 18.8 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 5.0 | | 90 | 80 | 11.8 | 76 | 83 | 8.8 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 5.0 | | 100 | 99 | 1.0 | 80 | 95 | 17.1 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 3.0 | | 105 | 105 | 0.0 | 81 | 101 | 22.0 | 70 - 130 | 30 | |
| Dibromomethane | ND | 5.0 | | 101 | 99 | 2.0 | 82 | 100 | 19.8 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 5.0 | 100 | 95 | 5.1 | 80 | 94 | 16.1 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 1.0 | 103 | 100 | 3.0 | 86 | 103 | 18.0 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 5.0 | 104 | 100 | 3.9 | 61 | 78 | 24.5 | 70 - 130 | 30 | m |
| Isopropylbenzene | ND | 1.0 | 103 | 99 | 4.0 | 85 | 109 | 24.7 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 2.0 | 102 | 100 | 2.0 | 85 | 99 | 15.2 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 5.0 | 117 | 116 | 0.9 | 94 | 119 | 23.5 | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 94 | 92 | 2.2 | 78 | 94 | 18.6 | 70 - 130 | 30 | |
| Methylene chloride | ND | 5.0 | 86 | 84 | 2.4 | 74 | 89 | 18.4 | 70 - 130 | 30 | |
| Naphthalene | ND | 5.0 | 109 | 106 | 2.8 | 53 | 56 | 5.5 | 70 - 130 | 30 | m |
| n-Butylbenzene | ND | 1.0 | 102 | 96 | 6.1 | 75 | 98 | 26.6 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 1.0 | 103 | 98 | 5.0 | 83 | 108 | 26.2 | 70 - 130 | 30 | |
| o-Xylene | ND | 2.0 | 103 | 101 | 2.0 | 85 | 100 | 16.2 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 1.0 | 104 | 99 | 4.9 | 80 | 102 | 24.2 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 1.0 | 111 | 105 | 5.6 | 86 | 112 | 26.3 | 70 - 130 | 30 | |
| Styrene | ND | 5.0 | 104 | 103 | 1.0 | 82 | 97 | 16.8 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 1.0 | 103 | 101 | 2.0 | 83 | 106 | 24.3 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 5.0 | 100 | 93 | 7.3 | 85 | 99 | 15.2 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 5.0 | 104 | 99 | 4.9 | 79 | 101 | 24.4 | 70 - 130 | 30 | |
| Toluene | ND | 1.0 | 103 | 99 | 4.0 | 88 | 103 | 15.7 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 5.0 | 102 | 96 | 6.1 | 87 | 102 | 15.9 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 5.0 | 100 | 98 | 2.0 | 76 | 94 | 21.2 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | 120 | 116 | 3.4 | 79 | 108 | 31.0 | 70 - 130 | 30 | r |
| Trichloroethene | ND | 5.0 | 104 | 99 | 4.9 | 92 | 108 | 16.0 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 5.0 | 103 | 95 | 8.1 | 90 | 100 | 10.5 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 5.0 | 96 | 90 | 6.5 | 85 | 96 | 12.2 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 5.0 | 108 | 104 | 3.8 | 92 | 108 | 16.0 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 98 | % | 100 | 100 | 0.0 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 98 | % | 100 | 100 | 0.0 | 101 | 98 | 3.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 93 | % | 94 | 91 | 3.2 | 91 | 93 | 2.2 | 70 - 130 | 30 | |
| % Toluene-d8 | 99 | % | 99 | 98 | 1.0 | 100 | 99 | 1.0 | 70 - 130 | 30 | |

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 538546H (ug/kg), QC Sample No: CG38785 50X (CG38956 (50X) )

## Volatiles - Soil (High Level)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 250 | 100 | 100 | 0.0 | 92 | 97 | 5.3 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 250 | 86 | 88 | 2.3 | 84 | 87 | 3.5 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 250 | 105 | 106 | 0.9 | 103 | 105 | 1.9 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 250 | 97 | 98 | 1.0 | 96 | 98 | 2.1 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 250 | 87 | 88 | 1.1 | 87 | 89 | 2.3 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 250 | 83 | 82 | 1.2 | 83 | 75 | 10.1 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 250 | 97 | 98 | 1.0 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 250 | 97 | 103 | 6.0 | 102 | 100 | 2.0 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 250 | 95 | 97 | 2.1 | 95 | 97 | 2.1 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 250 | 99 | 104 | 4.9 | 102 | 102 | 0.0 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 250 | 95 | 98 | 3.1 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | 100 | 104 | 3.9 | 92 | 93 | 1.1 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 250 | 98 | 100 | 2.0 | 98 | 99 | 1.0 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 250 | 97 | 100 | 3.0 | 98 | 99 | 1.0 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 250 | 95 | 96 | 1.0 | 94 | 96 | 2.1 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 250 | 97 | 97 | 0.0 | 97 | 99 | 2.0 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 250 | 97 | 100 | 3.0 | 97 | 99 | 2.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 250 | 98 | 100 | 2.0 | 99 | 99 | 0.0 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 250 | 99 | 99 | 0.0 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 250 | 95 | 99 | 4.1 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 250 | 90 | 91 | 1.1 | 85 | 83 | 2.4 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 250 | 97 | 99 | 2.0 | 98 | 98 | 0.0 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 1300 | 94 | 93 | 1.1 | 97 | 97 | 0.0 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 250 | 100 | 104 | 3.9 | 102 | 103 | 1.0 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 250 | 96 | 100 | 4.1 | 98 | 99 | 1.0 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 1300 | 95 | 96 | 1.0 | 96 | 96 | 0.0 | 70 - 130 | 30 | |
| Acetone | ND | 500 | 86 | 89 | 3.4 | 97 | 96 | 1.0 | 70 - 130 | 30 | |
| Acrylonitrile | ND | 250 | 91 | 91 | 0.0 | 91 | 93 | 2.2 | 70 - 130 | 30 | |
| Benzene | ND | 250 | 100 | 102 | 2.0 | 100 | 101 | 1.0 | 70 - 130 | 30 | |
| Bromobenzene | ND | 250 | 97 | 98 | 1.0 | 98 | 98 | 0.0 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 250 | 89 | 91 | 2.2 | 89 | 93 | 4.4 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 250 | 94 | 96 | 2.1 | 88 | 92 | 4.4 | 70 - 130 | 30 | |
| Bromoform | ND | 250 | 90 | 88 | 2.2 | 73 | 80 | 9.2 | 70 - 130 | 30 | |
| Bromomethane | ND | 250 | 65 | 64 | 1.6 | 60 | 62 | 3.3 | 70 - 130 | 30 | l,m |
| Carbon Disulfide | ND | 250 | 81 | 80 | 1.2 | 78 | 70 | 10.8 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 250 | 86 | 88 | 2.3 | 76 | 83 | 8.8 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 250 | 101 | 102 | 1.0 | 101 | 102 | 1.0 | 70 - 130 | 30 | |
| Chloroethane | ND | 250 | 25 | 25 | 0.0 | 24 | 25 | 4.1 | 70 - 130 | 30 | l,m |
| Chloroform | ND | 250 | 89 | 90 | 1.1 | 89 | 89 | 0.0 | 70 - 130 | 30 | |
| Chloromethane | ND | 250 | 100 | 100 | 0.0 | 92 | 93 | 1.1 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 250 | 76 | 84 | 10.0 | 77 | 77 | 0.0 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 250 | 94 | 96 | 2.1 | 89 | 92 | 3.3 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 150 | 97 | 99 | 2.0 | 85 | 92 | 7.9 | 70 - 130 | 30 | |
| Dibromomethane | ND | 250 | 93 | 96 | 3.2 | 93 | 94 | 1.1 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 250 | 97 | 99 | 2.0 | 83 | 83 | 0.0 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 250 | 100 | 104 | 3.9 | 101 | 103 | 2.0 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 250 | 99 | 109 | 9.6 | 104 | 107 | 2.8 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 250 | 98 | 100 | 2.0 | 98 | 100 | 2.0 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 250 | 100 | 101 | 1.0 | 100 | 101 | 1.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 250 | 93 | 92 | 1.1 | 97 | 99 | 2.0 | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 250 | 87 | 88 | 1.1 | 88 | 89 | 1.1 | 70 - 130 | 30 | |
| Methylene chloride | ND | 250 | 80 | 81 | 1.2 | 80 | 80 | 0.0 | 70 - 130 | 30 | |
| Naphthalene | ND | 250 | 102 | 107 | 4.8 | 106 | 104 | 1.9 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 250 | 98 | 103 | 5.0 | 101 | 101 | 0.0 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 250 | 98 | 101 | 3.0 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| o-Xylene | ND | 250 | 101 | 103 | 2.0 | 101 | 102 | 1.0 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 250 | 98 | 102 | 4.0 | 99 | 101 | 2.0 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 250 | 104 | 108 | 3.8 | 105 | 107 | 1.9 | 70 - 130 | 30 | |
| Styrene | ND | 250 | 102 | 104 | 1.9 | 102 | 103 | 1.0 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 250 | 97 | 101 | 4.0 | 99 | 101 | 2.0 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 250 | 98 | 101 | 3.0 | 97 | 98 | 1.0 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 250 | 90 | 92 | 2.2 | 91 | 92 | 1.1 | 70 - 130 | 30 | |
| Toluene | ND | 250 | 100 | 101 | 1.0 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 250 | 95 | 96 | 1.0 | 94 | 96 | 2.1 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 250 | 93 | 94 | 1.1 | 87 | 89 | 2.3 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 250 | 107 | 108 | 0.9 | 94 | 98 | 4.2 | 70 - 130 | 30 | |
| Trichloroethene | ND | 250 | 100 | 102 | 2.0 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 250 | 23 | 23 | 0.0 | 22 | 22 | 0.0 | 70 - 130 | 30 | l,m |
| Trichlorotrifluoroethane | ND | 250 | 84 | 84 | 0.0 | 82 | 73 | 11.6 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 250 | 105 | 106 | 0.9 | 98 | 100 | 2.0 | 70 - 130 | 30 | |

| Parameter | Blank | Blk RL | | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % 1,2-dichlorobenzene-d4 | 100 | % | | 99 | 100 | 1.0 | 99 | 100 | 1.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 97 | % | | 100 | 99 | 1.0 | 98 | 100 | 2.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 89 | % | | 90 | 89 | 1.1 | 89 | 90 | 1.1 | 70 - 130 | 30 | |
| % Toluene-d8 | 99 | % | | 99 | 98 | 1.0 | 98 | 98 | 0.0 | 70 - 130 | 30 | |

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 538548 (ug/kg), QC Sample No: CG39178 (CG38953)

## Volatiles - Soil (Low Level)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | 98 | 98 | 0.0 | 86 | 88 | 2.3 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 5.0 | | 84 | 84 | 0.0 | 79 | 77 | 2.6 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.0 | | 86 | 85 | 1.2 | 79 | 78 | 1.3 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 5.0 | | 86 | 84 | 2.4 | 79 | 78 | 1.3 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 5.0 | | 80 | 78 | 2.5 | 74 | 73 | 1.4 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 5.0 | | 86 | 85 | 1.2 | 81 | 78 | 3.8 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 5.0 | | 86 | 85 | 1.2 | 84 | 81 | 3.6 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | 82 | 77 | 6.3 | 63 | 64 | 1.6 | 70 - 130 | 30 | m |
| 1,2,3-Trichloropropane | ND | 5.0 | | 83 | 80 | 3.7 | 74 | 73 | 1.4 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | 78 | 75 | 3.9 | 61 | 62 | 1.6 | 70 - 130 | 30 | m |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | 82 | 81 | 1.2 | 75 | 74 | 1.3 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | | 98 | 95 | 3.1 | 81 | 83 | 2.4 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 5.0 | | 87 | 86 | 1.2 | 78 | 78 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 5.0 | | 83 | 81 | 2.4 | 72 | 72 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 5.0 | | 85 | 84 | 1.2 | 77 | 77 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 5.0 | | 87 | 86 | 1.2 | 81 | 80 | 1.2 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | 83 | 82 | 1.2 | 77 | 76 | 1.3 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 5.0 | | 81 | 80 | 1.2 | 73 | 72 | 1.4 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 5.0 | | 85 | 84 | 1.2 | 77 | 77 | 0.0 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 5.0 | | 79 | 78 | 1.3 | 71 | 70 | 1.4 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 5.0 | | 81 | 81 | 0.0 | 74 | 72 | 2.7 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 5.0 | | 84 | 83 | 1.2 | 78 | 77 | 1.3 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 25 | | 90 | 81 | 10.5 | 64 | 66 | 3.1 | 70 - 130 | 30 | m |
| 2-Isopropyltoluene | ND | 5.0 | | 89 | 88 | 1.1 | 83 | 82 | 1.2 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 5.0 | | 81 | 80 | 1.2 | 74 | 73 | 1.4 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 25 | | 85 | 83 | 2.4 | 75 | 75 | 0.0 | 70 - 130 | 30 | |
| Acetone | ND | 10 | | 112 | 92 | 19.6 | 38 | 39 | 2.6 | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 5.0 | | 82 | 80 | 2.5 | 70 | 71 | 1.4 | 70 - 130 | 30 | |
| Benzene | ND | 1.0 | | 87 | 86 | 1.2 | 82 | 80 | 2.5 | 70 - 130 | 30 | |
| Bromobenzene | ND | 5.0 | | 84 | 83 | 1.2 | 76 | 76 | 0.0 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 5.0 | | 83 | 82 | 1.2 | 75 | 75 | 0.0 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 5.0 | | 95 | 94 | 1.1 | 83 | 84 | 1.2 | 70 - 130 | 30 | |
| Bromoform | ND | 5.0 | | 119 | 117 | 1.7 | 95 | 102 | 7.1 | 70 - 130 | 30 | |
| Bromomethane | ND | 5.0 | | 85 | 84 | 1.2 | 76 | 75 | 1.3 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 5.0 | | 83 | 81 | 2.4 | 76 | 74 | 2.7 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 5.0 | | 97 | 96 | 1.0 | 84 | 85 | 1.2 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 5.0 | | 86 | 85 | 1.2 | 80 | 79 | 1.3 | 70 - 130 | 30 | |
| Chloroethane | ND | 5.0 | | 86 | 86 | 0.0 | 78 | 77 | 1.3 | 70 - 130 | 30 | |
| Chloroform | ND | 5.0 | | 80 | 78 | 2.5 | 74 | 72 | 2.7 | 70 - 130 | 30 | |
| Chloromethane | ND | 5.0 | | 79 | 78 | 1.3 | 71 | 69 | 2.9 | 70 - 130 | 30 | m |
| cis-1,2-Dichloroethene | ND | 5.0 | | 78 | 77 | 1.3 | 72 | 70 | 2.8 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 5.0 | | 85 | 84 | 1.2 | 74 | 75 | 1.3 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 3.0 | | 108 | 106 | 1.9 | 90 | 94 | 4.3 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibromomethane | ND | 5.0 | 84 | 83 | 1.2 | 76 | 76 | 0.0 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 5.0 | 85 | 84 | 1.2 | 79 | 76 | 3.9 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 1.0 | 87 | 87 | 0.0 | 84 | 81 | 3.6 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 5.0 | 87 | 86 | 1.2 | 76 | 76 | 0.0 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 1.0 | 87 | 86 | 1.2 | 82 | 80 | 2.5 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 2.0 | 85 | 86 | 1.2 | 81 | 80 | 1.2 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 5.0 | 96 | 84 | 13.3 | 62 | 60 | 3.3 | 70 - 130 | 30 | m |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 79 | 77 | 2.6 | 72 | 72 | 0.0 | 70 - 130 | 30 | |
| Methylene chloride | ND | 5.0 | 75 | 73 | 2.7 | 69 | 68 | 1.5 | 70 - 130 | 30 | m |
| Naphthalene | ND | 5.0 | 85 | 82 | 3.6 | 70 | 70 | 0.0 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 1.0 | 83 | 81 | 2.4 | 76 | 75 | 1.3 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 1.0 | 85 | 84 | 1.2 | 80 | 78 | 2.5 | 70 - 130 | 30 | |
| o-Xylene | ND | 2.0 | 87 | 87 | 0.0 | 83 | 81 | 2.4 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 1.0 | 85 | 84 | 1.2 | 79 | 78 | 1.3 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 1.0 | 91 | 90 | 1.1 | 86 | 84 | 2.4 | 70 - 130 | 30 | |
| Styrene | ND | 5.0 | 85 | 84 | 1.2 | 78 | 77 | 1.3 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 1.0 | 86 | 85 | 1.2 | 81 | 80 | 1.2 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 5.0 | 89 | 89 | 0.0 | 87 | 85 | 2.3 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 5.0 | 76 | 74 | 2.7 | 67 | 67 | 0.0 | 70 - 130 | 30 | m |
| Toluene | ND | 1.0 | 88 | 87 | 1.1 | 83 | 82 | 1.2 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 5.0 | 89 | 87 | 2.3 | 83 | 81 | 2.4 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 5.0 | 84 | 83 | 1.2 | 71 | 73 | 2.8 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | 92 | 90 | 2.2 | 70 | 72 | 2.8 | 70 - 130 | 30 | |
| Trichloroethene | ND | 5.0 | 89 | 89 | 0.0 | 85 | 83 | 2.4 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 5.0 | 92 | 92 | 0.0 | 86 | 84 | 2.4 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 5.0 | 87 | 86 | 1.2 | 85 | 83 | 2.4 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 5.0 | 91 | 89 | 2.2 | 84 | 80 | 4.9 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 100 | % | 101 | 100 | 1.0 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 96 | % | 99 | 99 | 0.0 | 101 | 100 | 1.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 92 | % | 94 | 93 | 1.1 | 94 | 93 | 1.1 | 70 - 130 | 30 | |
| % Toluene-d8 | 99 | % | 99 | 99 | 0.0 | 99 | 98 | 1.0 | 70 - 130 | 30 | |

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 538712 (ug/kg), QC Sample No: CG39216 (CG38954)

## Volatiles - Soil (Low Level)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | 98 | 101 | 3.0 | 94 | 92 | 2.2 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 5.0 | 94 | 95 | 1.1 | 88 | 83 | 5.8 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.0 | 104 | 108 | 3.8 | 99 | 94 | 5.2 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 5.0 | 90 | 94 | 4.3 | 89 | 83 | 7.0 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 5.0 | 94 | 95 | 1.1 | 87 | 83 | 4.7 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 5.0 | 96 | 96 | 0.0 | 84 | 77 | 8.7 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 5.0 | 93 | 94 | 1.1 | 89 | 82 | 8.2 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | 98 | 93 | 5.2 | 84 | 83 | 1.2 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 5.0 | 98 | 102 | 4.0 | 90 | 84 | 6.9 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 104 | 95 | 9.0 | 83 | 81 | 2.4 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 98 | 95 | 3.1 | 87 | 83 | 4.7 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | 107 | 110 | 2.8 | 104 | 96 | 8.0 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 5.0 | 95 | 100 | 5.1 | 92 | 88 | 4.4 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 5.0 | 92 | 90 | 2.2 | 84 | 81 | 3.6 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 5.0 | 90 | 94 | 4.3 | 87 | 83 | 4.7 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 5.0 | 90 | 93 | 3.3 | 88 | 83 | 5.8 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 1.0 | 100 | 97 | 3.0 | 90 | 85 | 5.7 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 5.0 | 96 | 93 | 3.2 | 84 | 81 | 3.6 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 5.0 | 94 | 97 | 3.1 | 91 | 87 | 4.5 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 5.0 | 94 | 91 | 3.2 | 82 | 80 | 2.5 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 5.0 | 101 | 103 | 2.0 | 92 | 86 | 6.7 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 5.0 | 97 | 95 | 2.1 | 89 | 86 | 3.4 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 25 | 98 | 102 | 4.0 | 90 | 83 | 8.1 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 5.0 | 99 | 96 | 3.1 | 92 | 86 | 6.7 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 5.0 | 96 | 92 | 4.3 | 87 | 83 | 4.7 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 25 | 95 | 102 | 7.1 | 93 | 85 | 9.0 | 70 - 130 | 30 | |
| Acetone | ND | 10 | 80 | 86 | 7.2 | 72 | 68 | 5.7 | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 5.0 | 96 | 103 | 7.0 | 90 | 83 | 8.1 | 70 - 130 | 30 | |
| Benzene | ND | 1.0 | 93 | 95 | 2.1 | 90 | 85 | 5.7 | 70 - 130 | 30 | |
| Bromobenzene | ND | 5.0 | 93 | 94 | 1.1 | 88 | 85 | 3.5 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 5.0 | 93 | 96 | 3.2 | 87 | 86 | 1.2 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 5.0 | 98 | 100 | 2.0 | 93 | 90 | 3.3 | 70 - 130 | 30 | |
| Bromoform | ND | 5.0 | 101 | 108 | 6.7 | 94 | 91 | 3.2 | 70 - 130 | 30 | |
| Bromomethane | ND | 5.0 | 95 | 91 | 4.3 | 80 | 77 | 3.8 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 5.0 | 99 | 99 | 0.0 | 84 | 79 | 6.1 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 5.0 | 100 | 122 | 19.8 | 95 | 89 | 6.5 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 5.0 | 93 | 94 | 1.1 | 87 | 84 | 3.5 | 70 - 130 | 30 | |
| Chloroethane | ND | 5.0 | 99 | 101 | 2.0 | 87 | 83 | 4.7 | 70 - 130 | 30 | |
| Chloroform | ND | 5.0 | 95 | 96 | 1.0 | 88 | 85 | 3.5 | 70 - 130 | 30 | |
| Chloromethane | ND | 5.0 | 90 | 92 | 2.2 | 79 | 74 | 6.5 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 5.0 | 87 | 91 | 4.5 | 83 | 82 | 1.2 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 5.0 | 95 | 98 | 3.1 | 91 | 88 | 3.4 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 3.0 | 105 | 108 | 2.8 | 100 | 97 | 3.0 | 70 - 130 | 30 | |
| Dibromomethane | ND | 5.0 | 89 | 93 | 4.4 | 86 | 83 | 3.6 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 5.0 | 99 | 100 | 1.0 | 87 | 80 | 8.4 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 1.0 | 95 | 95 | 0.0 | 89 | 84 | 5.8 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 5.0 | 100 | 90 | 10.5 | 90 | 83 | 8.1 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 1.0 | 97 | 97 | 0.0 | 92 | 85 | 7.9 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 2.0 | 97 | 95 | 2.1 | 89 | 83 | 7.0 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 5.0 | 94 | 100 | 6.2 | 82 | 76 | 7.6 | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 93 | 97 | 4.2 | 83 | 80 | 3.7 | 70 - 130 | 30 | |
| Methylene chloride | ND | 5.0 | 86 | 86 | 0.0 | 73 | 70 | 4.2 | 70 - 130 | 30 | |
| Naphthalene | ND | 5.0 | 103 | 102 | 1.0 | 95 | 91 | 4.3 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 1.0 | 104 | 96 | 8.0 | 88 | 83 | 5.8 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 1.0 | 98 | 95 | 3.1 | 88 | 83 | 5.8 | 70 - 130 | 30 | |
| o-Xylene | ND | 2.0 | 94 | 94 | 0.0 | 89 | 84 | 5.8 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 1.0 | 101 | 96 | 5.1 | 89 | 84 | 5.8 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 1.0 | 105 | 102 | 2.9 | 96 | 90 | 6.5 | 70 - 130 | 30 | |
| Styrene | ND | 5.0 | 96 | 95 | 1.0 | 89 | 85 | 4.6 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 1.0 | 97 | 96 | 1.0 | 92 | 86 | 6.7 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 5.0 | 91 | 92 | 1.1 | 87 | 80 | 8.4 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 5.0 | 93 | 102 | 9.2 | 84 | 77 | 8.7 | 70 - 130 | 30 | |
| Toluene | ND | 1.0 | 93 | 95 | 2.1 | 88 | 84 | 4.7 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 5.0 | 99 | 98 | 1.0 | 85 | 80 | 6.1 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 5.0 | 97 | 100 | 3.0 | 92 | 89 | 3.3 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | 131 | 134 | 2.3 | 117 | 110 | 6.2 | 70 - 130 | 30 | l |
| Trichloroethene | ND | 5.0 | 90 | 93 | 3.3 | 87 | 82 | 5.9 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 5.0 | 95 | 95 | 0.0 | 81 | 76 | 6.4 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 5.0 | 96 | 96 | 0.0 | 82 | 77 | 6.3 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GCG38945

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | ND | 5.0 | 99 | 100 | 1.0 | 87 | 80 | 8.4 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 98 | % | 98 | 99 | 1.0 | 99 | 98 | 1.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 99 | % | 100 | 100 | 0.0 | 100 | 99 | 1.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 93 | % | 100 | 105 | 4.9 | 104 | 101 | 2.9 | 70 - 130 | 30 |
| % Toluene-d8 | 103 | % | 100 | 100 | 0.0 | 100 | 100 | 0.0 | 70 - 130 | 30 |

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

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
August 06, 2020

Thursday, August 06, 2020

Criteria: None

State: NY

# Sample Criteria Exceedances Report

## GCG38945 - SLR-CHESHIRE

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

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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 # 11301

# Analysis Comments

August 06, 2020 SDG I.D.: GCG38945

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### *SVOA Narration*

**CHEM28 07/22/20-1:** CG38945, CG38946, CG38947, CG38948, CG38949, CG38950, CG38951, CG38952, CG38953, CG38954

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.060 (0.1), Hexachlorobenzene 0.080 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.059 (0.1), Hexachlorobenzene 0.078 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

### *VOA Narration*

**CHEM03 07/23/20-1:** CG38954

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 25% (20%), Bromoform 33% (20%), Dibromochloromethane 22% (20%), trans-1,4-dichloro-2-butene 23% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.091 (0.1), Tetrachloroethene 0.157 (0.2)
The following Initial Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

**CHEM26 07/22/20-2:** CG38953

The following Initial Calibration compounds did not meet RSD% criteria: Bromoform 29% (20%), Chloroethane 25% (20%), Dibromochloromethane 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.085 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

**CHEM31 07/22/20-2:** CG38945, CG38946, CG38947, CG38948, CG38949, CG38950, CG38951, CG38952, CG38955, CG38956

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Comments

August 06, 2020 SDG I.D.: GCG38945

The following Initial Calibration compounds did not meet RSD% criteria: Bromoform 22% (20%), Chloroethane 27% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.094 (0.1), Bromoform 0.089 (0.1), Tetrachloroethene 0.165 (0.2)
The following Initial Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# NY Temperature Narration

**August 06, 2020**

**SDG I.D.: GCG38945**

The samples in this delivery group were received at 2.3°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

APPENDIX 5
LIMITATIONS

## GEOTECHNICAL LIMITATIONS

Explorations

1. The analyses and recommendations submitted in this report are based in part on data contained on the subsurface exploration logs. The nature and extent of variations between these explorations may not become evident until construction. If variations then appear evident, it will be necessary to reevaluate the recommendations of this report.

2. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed from interpretations of widely spaced explorations and samples; actual soil transitions are probably more erratic. For specific information, refer to the subsurface exploration logs referenced above.

3. Water level readings were reported on the exploration logs referenced above. These data have been reviewed and interpretations have been made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to seasonal changes, variations in rainfall, construction activity, and other factors which may be different from those at the time these observations were made.

Review

4. If any changes in the nature, design or location of the proposed project are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed, and the conclusions modified or verified in writing by Milone & MacBroom, Inc. It is recommended that this firm be provided the opportunity for a general review of final design drawings and specifications to confirm that earthwork and foundation recommendations are properly interpreted and implemented in the design and specifications.

Use of Report

5. This report has been prepared for the exclusive use of 131 Pearl Street Owner, LLC and their design team for specific application to the 123-131 Pearl Street Development project located at 123-131 Pearl Street in Port Chester, New York in accordance with generally accepted soil and foundation engineering practices. No other warranty, express or implied, is made.